Welcome to St Andrews

Welcome to the Postgraduate Prospectus of the University of St Andrews. We are delighted that you are considering joining the growing ranks of our vibrant postgraduate population. Over the following pages we have endeavoured to include the kind of detailed information that will help you to make an informed choice from among the wide range of options open to you.

More than 1,000 postgraduates study in one of our four faculties of Arts, Divinity, Medicine and Science, and my colleagues and I very much hope that you will decide to join their number. We believe St Andrews to be a remarkable and exciting institution which combines the cosmopolitanism of an international university with a strong sense of community derived from its location in a small and ancient town. The scale of the University allows us to compete successfully for private and public funding for our path-breaking research while being small enough to provide individual attention to everyone who chooses to study here. We believe we combine the best of the global and the local. We hope you agree.

Professor Louise Richardson FRSE
Principal and Vice-Chancellor

St Leonard’s College is one of the ancient constituent colleges of the University. From 2013, the College will serve as the University’s new research graduate school.

As Provost of St Leonard’s, I look forward to welcoming you to our community. As a member of the College and the University, you will become part of an environment which fosters intellectual endeavour, in which you can conduct your research at the highest level and fulfil your potential. Postgraduate students are an intrinsic part of our thriving research culture.

Each of the Schools and Units offers particular strengths and has its own identity. You will also be part of the University’s diverse and welcoming community. Our GRADskills programme offers a tremendous range of workshops, seminars, online resources and conferences which support your ongoing research and future employability. The University continues to develop dedicated space for postgraduates. It is embarking on an exciting redevelopment of the Library whilst increasing investment in both traditional and online resources. We are determined to keep the needs and aspirations of our postgraduates at the heart of our vision for the University’s future.

I look forward to meeting you, whether you come on a Visiting Day, or enter the College as a new or returning student, and I hope that St Leonard’s will contribute to the success of your postgraduate career.

Professor Malcolm D MacLeod
Provost of St Leonard’s College
“St Andrews is a unique and friendly place and somewhere I consider my second home. Completing my undergraduate degree here and spending a year away studying at Cambridge, there was no question in my mind about returning to start my PhD when the opportunity arose. You build a close affinity with the town and University and I have met fellow students that I know will be friends for life.”

**Alex** (Preston, England)
School of Psychology & Neuroscience

“For a small town like St Andrews, you will be amazed by the different varieties of events going on on a weekly (if not daily!) basis. One of my favourite things is the large number of high-quality shows you can partake in, whether as a performer or a member of the audience. The student plays and musicals, the gigs, the live folk music events... basically, something for everyone and simply a must!”

**Hanna** (Gdansk, Poland)
School of Mathematics & Statistics

“My top tip for settling into St Andrews is to come with an open mind and some wellington boots! There are so many clubs, societies and events that I would encourage you to step out of your comfort zone and try something new. You will also have the opportunity to meet people from all different walks of life so get ready to have stimulating academic discussions over a pint at the pub. The St Andrews experience is quite unique so enjoy every minute of it!”

**Carlota** (San Salvador, El Salvador)
School of Psychology & Neuroscience

“The beautiful surroundings of St Andrews with the beach and countryside right on your doorstep make it a wonderful place to think, to research and to make life-long friends. My top tip for living here is to make the most of every opportunity! Whether that be a barbecue on the beach or listening to a lecture by world-class researchers, St Andrews is the perfect place to enjoy your research.”

**Morven** (Glasgow, Scotland)
School of Modern Languages

“Given the quality of supervision and the constant support I receive from my School, without a doubt I can say that the University lives up to its reputation as a centre for excellence. Also as an active member of the vibrant postgraduate community, pursuing a PhD degree might be a challenging yet rewarding experience, but never a lonely one in St Andrews!”

**Pinar** (Ankara, Turkey)
School of International Relations

“It is important to remember to balance academic life with other activities. The Postgraduate Society is a great way of getting involved in and socialising with the postgraduate community at large. I would also recommend going to departmental research events and conferences as these are an invaluable way of making the most of the vibrant research community here.”

**Sarah** (Bulawayo, Zimbabwe)
School of Modern Languages
**Facts and Figures**

**People**

**Student FTE (as of October 2012)**
- Undergraduates: 6,071
- PGR Total: 743
- PGT Total: 768
- Postgraduates Total: 1,511
- Students from the UK: 52%
- Students from the EU: 15%
- Students from Overseas: 33%
- Students in University maintained accommodation: 50%
- Town population (incl. students): c.20,000

**Staff FTE (as of 31 July 2012)**
- Academic: 975
- Other: 1,100

**Key Facts**

**University established 1413**
Third university established in the British Isles

**Student Experience Quality**
- St Andrews has been judged to be one of the UK’s top multi-faculty universities in the National Student Surveys 2006-2012. It continues to perform strongly in national and international HE league tables.
- **Guardian University Guide 2014**:
  - 1st in Scotland / 4th in UK
- **Times Good University Guide 2013**:
  - 1st in Scotland / 6th in UK
- **Complete University Guide 2013**:
  - 1st in Scotland / 6th in UK
- **Sunday Times University Guide 2012**:
  - 1st in Scotland / 6th in UK
- **QS World Rankings 2012 – 93rd**
  - Also ranked amongst the Top 200 institutions in 13 of the 30 subjects featured. We are ranked in the top 100 for:
    - Philosophy (12)
    - History (36)
    - Chemistry (51-100)
    - Geography (51-100)
    - International Relations (51-100)
    - English Language & Literature (51-100)
    - Modern Languages (51-100)
- **Times Higher Education World Rankings 2013**:
  - 108th in the world and 34th for Arts and Humanities

**Research Quality**
The last Research Assessment Exercise information can be found at: www.st-andrews.ac.uk/research/quality/rae2008/
The staff in the Admissions team are available to provide you with information on all aspects of postgraduate study at St Andrews.

Our personal and friendly approach reflects the ethos of the University as a whole, and the community spirit that exists here. All prospective students are welcome to contact us by email or phone, or to ask questions via Facebook. You might also want to be added to our mailing list so that you can receive news updates, information on Visiting Days and details about scholarships and new courses.

**Postgraduate Visiting Days**

There are two Visiting Days each year specific to postgraduate study and they will be held on 13 November 2013 and 12 March 2014.

A Visiting Day gives you the opportunity to meet academic staff, and see the many facilities throughout the University. It is easy to make arrangements to visit the University and town. [www.st-andrews.ac.uk/admissions/pg/visiting](http://www.st-andrews.ac.uk/admissions/pg/visiting)

**Individual visits to St Andrews**

We offer individually tailored visits to the University, on a date that suits you. You will meet with a member of our admissions team on a one-to-one basis and also go on a tour with a current student. If possible, we will arrange for you to meet staff from the academic area in which you are interested. Please give us an early indication of which School or Department you would like to visit. Last year almost 200 people visited us on an individual basis.

**Web chats:**

Sessions range from general information to subject and research specific. We regularly host live online events to answer your questions. To receive information about future web chats, send an email to us – see below.

**Facebook:**

This is a place for friendly, informal discussion between prospective students and applicants, and our staff. We use this group to answer questions, to keep students informed about upcoming events, and to relay published reports where the University of St Andrews appears in the news.

You can keep up to date with the latest Admissions news by viewing our web pages or by contacting us:

**T:** +44 (0)1334 463325
**E:** pgrecruitment@st-andrews.ac.uk
[www.facebook.com/groups/stapgrecruitment](http://www.facebook.com/groups/stapgrecruitment)
[www.st-andrews.ac.uk/admissions/pg/visiting](http://www.st-andrews.ac.uk/admissions/pg/visiting)

**Meet us in your country**

Members of our Admissions team visit various countries around the world each year, and would welcome the opportunity to meet you. Check out our contact details and travel schedule at: [www.st-andrews.ac.uk/admissions/yourcountry](http://www.st-andrews.ac.uk/admissions/yourcountry)

St Andrews has a global network of official representatives who can assist with your application. Our agents are there to advise on the application process, give information and advice about specific courses, and answer questions about our town and country. They can also offer advice about student visa requirements. [www.st-andrews.ac.uk/admissions/yourcountry/overseasrepresentatives](http://www.st-andrews.ac.uk/admissions/yourcountry/overseasrepresentatives)

**Questions?**

If you have any questions before you apply, email: pgrecruitment@st-andrews.ac.uk

---

**Return to Contents**
Admission Process

The University handles applications within the framework of its Admissions and Equal Opportunities policy: www.st-andrews.ac.uk/admissions/pg/postgraduateadmissionspolicy

The policy for supervisors and students in research postgraduate programmes is at: www.st-andrews.ac.uk/staff/policy/tlac/postgraduate/research/

Before you apply

Specific areas of research specialisation, including PhD opportunities, can be found in this Prospectus and online:

- Research in Schools – see from page 34 in this Prospectus www.st-andrews.ac.uk/research/university/schools/
- Research Centres and Institutes – see from page 26 in this Prospectus www.st-andrews.ac.uk/research/university/centres/

The majority of the research takes place within the academic Schools and research centres and the precise focus of research for a PhD is agreed between you and the supervisor to suit particular interests and needs. Matching with a suitable supervisor is important and it is recommended that you review our staff profiles and publications online before applying, to provide you with a better understanding of staff interests and backgrounds. We strongly recommend that you contact your potential supervisor or academic School before applying.

Our research staff and supervisors welcome direct contact with potential students as it allows them the opportunity to discuss your research proposal. This is an important aspect of the application process as the University must be assured that:

- we can provide a suitable programme of training and research support.
- a supervisor who has the requisite expertise is available.
- we have suitable facilities and equipment where appropriate.

The University must also be satisfied that you have the necessary qualifications and experience. This early discussion also allows you and your potential supervisor to explore funding opportunities.

If you already know the member of staff you wish to supervise your project, you should contact them or the academic School directly or if applying for a funded research position, as per the contact listed for funding.

When to apply

There is no fixed closing deadline for applications to research degrees, although there may be specific deadlines associated with studentships and funding opportunities.

However, we strongly recommend that you apply early and where possible no later than three months before your intended start date. While research degree registration can begin at the start of any month, it is recommended that you begin in either September or January to take advantage of the University’s induction programme.

Entry Requirements

Admission to Doctoral level programmes is normally on the basis of a first degree at 2:1 level or higher (or the overseas equivalent) in the relevant subject, or a relevant postgraduate qualification. Country-specific information can be found at: www.st-andrews.ac.uk/admissions/admissionsmap

The qualifications listed here are our minimum requirements for entry. Some academic Schools will ask applicants to achieve significantly higher marks than the minimum standard. Some courses require students to have studied a specific subject and these are detailed in the subject pages (from page 34). The UK research councils in several disciplines require that funded students on Doctoral programmes have first completed an approved Masters programme that prepares the student for doctoral work.

Where a prospective student lacks a suitable first degree, alternative mechanisms for assessing qualifications and suitability for research, reflecting professional or other work experience, may be used.

English Language Requirements

If your first language is not English you must provide us with evidence of proficiency in written and spoken English as well as meeting our other entrance requirements. This will generally mean showing that you have achieved a satisfactory result in a recognised test of English language, for example IELTS, TOEFL or PTE. Recent changes to UK immigration law mean that students who require a visa to study will also have to satisfy UKBA language requirements. More detailed information can be found at: www.st-andrews.ac.uk/elt/entry
Degree Entry: English Language Requirements for Postgraduate Study

Qualification | Postgraduate
---|---
IELTS | 7.0
TOEFL iBT | 100
Cambridge English: Proficiency (CPE) | B
Cambridge English: Advanced (CAE) | A
University of St Andrews Pre-Search Programme | Pass

Our postgraduate programmes generally require a minimum score of IELTS 7.0 or equivalent. Some Schools may specify test scores in individual language skills. You should submit a copy of the relevant certificate with your application, if you have already taken a language test, or supply the Test Report Form number. Test scores must be notified to Postgraduate Admissions before you arrive in St Andrews. You may also be required to attend one of the University's pre-sessional programmes as a condition of entry (see next page). Alternatively, we may decide to interview you.

Required documents

Applications for postgraduate study are made online. When you apply, you will create an online account with us. Applications are School/research specific. Your School / potential supervisor will advise you on specific required information on applying. Please be prepared to supply any or all of the following:

- A completed online application.
- A copy of your CV / résumé.
- Evidence of your qualification(s) (e.g. your educational certificates including interim and final transcripts and professional qualifications).
- Two contact details of academic references on application.
- Evidence of English Language proficiency (required if English is not your first language).
- Research/Outline proposal is required for all applications to Psychology and the Faculty of Arts and Divinity.
- Additional documentation or sample work may be required as per the application instructions.

A research proposal is a crucial part of the application process and helps to assess both your suitability for a research degree in PhD / DLang / MPhil and whether we can offer you supervision. You should include an outline in English (approximately 500 words) of your proposed research topic. Research proposal formats will vary by subject and by academic School and at a minimum the proposal should:

- explain the particular topic or question which you wish to study.
- explain how you intend to investigate the research questions, and indicate where possible what methodologies you will be using.
- briefly summarise existing research on the topic, making reference to publications as appropriate.
- give a clear outline of the research you intend to do.

If accepted, you are not committed to exactly following this proposed research, however applications received without a research proposal will not be considered. A Personal Statement alone will not meet this requirement. Please visit your specific School or Research Centre web pages for further guidelines on writing your research proposal. It is important to review the details as applicants can be unsuccessful due to the submission of a weak proposal.

If you wish to accept an offer to study at St Andrews you should follow the instructions detailed in your offer email. There is normally a time limit by which to reply to us. www.st-andrews.ac.uk/admissions/pg/apply/offer

Application forms and guidance notes are available here: www.st-andrews.ac.uk/admissions/pg/apply

If you have any questions about your application please contact: pgr.application@st-andrews.ac.uk

www.st-andrews.ac.uk/admissions/pg/apply
Before the first semester, English Language Teaching (ELT) provides a four-week English and academic skills course specifically catering for entrant PGR students. This course will provide a tailored and relevant introduction to academic writing style and the conventions of UK scholarship in the context of your discipline. It will offer you a mixture of language development and academic literacy activities. You will learn to draft and write an annotated bibliography or literature review and give a presentation with feedback on style, referencing conventions, and understanding feedback. You will also attend four lectures and four related seminars.

The course is designed to help you develop and extend your language skills in the context of your academic discipline, with a major emphasis on writing, particularly the process of essay and report writing and referencing conventions, together with presentation skills and idiomatic English. The course offers an enjoyable orientation to life in St Andrews and an opportunity to meet other students and become familiar with the University before the semester begins. If you are an international student whose first language is not English, you are strongly recommended to attend. For some programmes, if your IELTS or TOEFL score is slightly below our usual 'asking rate', your offer may specify attendance on a pre-sessional programme as a condition of entry. Information about the course will be sent to you with your offer pack and can also be found at: www.st-andrews.ac.uk/elt/presessional

**Presearch course**

This is only available to candidates holding an offer from a School. It aims to provide a highly intensive pre-sessional course for incoming postgraduate research students who require more time to develop their English for academic purposes.

The course has three strands: academic language and literacy, everyday communication, and an independent research project conducted in collaboration between ELT and your future School.

The academic language/literacy strand focuses on developing your competence in the kinds of communications required by your discipline, and is supplemented by a strand in everyday social communication, which aims to help you attune faster to local accents, UK idiom and informal speech patterns. The independent research strand will require you to identify an area of research connected to the focus of your PhD and prepare a related literature review. Some project guidance and feedback would come from your future School.

www.st-andrews.ac.uk/elt/presessional

**In-sessional English Language Service**

IELS is the free In-sessional English Language Service located within ELT, offering you, as an international postgraduate research student a variety of ways to develop your language proficiency throughout the academic year. You may sign up for customised one-to-one tutorials with a member of our language teaching team or attend workshops focusing on academic writing, as well as grammar, pronunciation and speaking. We provide support for all language issues associated with writing dissertations and theses. We run a number of workshops to support your research communication skills, for example writing conference abstracts and giving conference presentations. We can provide opportunities for you to practice your speaking skills, particularly in the context of presentations and interviews. For more information, please visit:

www.st-andrews.ac.uk/elt/iels
Programme Structures

Research degrees

A PhD research degree is awarded for a thesis of up to 80,000 words, which is normally submitted after three years of full-time study (up to seven years part time). During your first two semesters of study, you must demonstrate your abilities and aptitude for research, in order to progress to PhD status. You will be assessed on a substantial piece of written work and must have the support of your supervisor. A PhD should incorporate original research, demonstrating full understanding of the area of study, make a significant and original contribution to knowledge and be of a high scholarly standard throughout.

Advantages

For many students this pattern of research (often preceded by some Masters-level work) is much preferred to the more extensive doctoral programmes in North America where the actual research for the dissertation is not begun until late in the programme. In St Andrews, the doctoral thesis is the focus from the start. The burden of tuition fees and subsistence is thereby also lessened.

Part-time study

Part-time study is possible in all courses (except for non EU / UK students). In order to qualify for part-time status you must show that you are unable to pursue studies full time (e.g. because you are in full-time employment). Arrangements may vary depending on the degree intended. If you wish to apply for part-time study you are advised to discuss your proposed programme with the Director of Postgraduates in the School/Department where you are planning on studying.

MD

In 2003 the Scottish Parliament reinstated the right of St Andrews to offer a Doctorate in Medicine (MD) degree to candidates holding a recognised medical qualification. Candidates must have some connection with St Andrews as either graduates in Medicine or Medical Science from this University, or members of academic staff or employees of the NHS in the Lothians, Fife or Tayside having a working relationship with St Andrews. The MD may be awarded as a result of research undertaken in St Andrews, for appropriately qualified candidates. An MD may also be achieved through submission of a portfolio of published work, all of which must be in the public domain.

The minimum period of study on a full-time research project is two years, or four years for part-time study.
Financing Your Studies

Postgraduate study is an investment in your intellectual development and your career potential. The University of St Andrews has various scholarship opportunities for postgraduate students. The availability of scholarships may vary according to your area of study and/or whether you are classed as a Home or International student for fee purposes.

We are committed to research

The University of St Andrews is one of the leading research-intensive universities in the world. We are actively investing in the future of the next generation of world-leading researchers. Last year we launched a new prestigious PhD scholarship scheme.

The 600th Anniversary PhD Scholarships comprise a financial package of fees plus an annual stipend of up to £15,000 for three years. These scholarships are available across all the disciplines in the Arts & Humanities, Sciences, and Medicine. Up to 100 Anniversary scholarships were made available in 2012-2013.

Academic School scholarships

Many academic Schools at St Andrews offer University postgraduate research scholarships, available for various lengths of study and research.

You should contact the academic School to which you are making an application in order to discuss possible sources of funding, such as research councils, which may be available in the forthcoming year.

Examples of funding include:

- Art History PhD Scholarships
- PhD Studentships in the School of Medicine

Scholarships

There are a number of funding options available to research students at St Andrews, including research-specific funding. The range of support may vary from individual grants, or a contribution towards the cost of tuition fees, to full tuition fee support with a maintenance stipend to cover your living costs. The standard UK Research Council maintenance grant for the 2013-2014 academic year was £13,726.

The University provides a varied portfolio of scholarships

Funded or co-funded by the University of St Andrews

Examples include:

- Commonwealth Scholarships
- Gibson-Sykora Scholarships
- Music Centre Scholarships
- Royal and Ancient Golf Club Scholarships
- Scotland’s Saltire Scholarships
- Thomas & Margaret Roddan Trust

External scholarships and awards

Examples include:

- Africa Education Trust
- Charles Wallace Trust
- Fulbright Commission

For all up-to-date scholarship information, see:
www.st-andrews.ac.uk/admissions/pg/financialinformation/pgscholarships

You can get the latest scholarship information on Twitter. Follow @StAPgFunding
Research Council funding

In general, research council awards provide full tuition fees with a maintenance grant of up to four years’ duration for UK students; EU students usually receive tuition fees only, and not maintenance. Awards from research councils are highly competitive. You must apply through the University and we encourage early application. Schools and Departments will normally have internal deadlines that you must meet in order for applications to be submitted to the research councils for their deadlines.

St Andrews has a proven record of attracting funding from the UK research councils:

• Arts and Humanities Research Council (AHRC): AHRC Block Grant Partnership which will substantially increase and sustain recruitment of world-class doctoral students to English, History, Philosophy and Masters in Museum and Gallery Studies.

• Biotechnology and Biological Sciences Research Council (BBSRC): Around seven BBSRC funded places per annum to quality students for up to four years.

• Economic and Social Research Council (ESRC): ESRC-accredited Scottish Doctoral Training Centre offering places in six Schools. Funding is available for 1+3 (Masters and Doctoral) and +3 (Doctoral) programmes.

• Engineering and Physical Sciences Research Council (EPSRC): We hold a large number of EPSRC-funded places within Chemistry, Physics, Mathematics & Statistics, Computer Science and Psychology & Neuroscience.

• Medical Research Council (MRC): MRC doctoral funding for up to four years in Biomedicine.

• Natural Environment Research Council (NERC): five Doctoral places funded by NERC per annum

• Science and Technology Facilities Council (STFC): annual STFC quota awards in the Schools of Physics & Astronomy and Mathematics & Statistics.

Collaborative or CASE funding can be linked to any of the above Research Councils, provide students with a first rate challenging research training experience within the context of a mutually beneficial research collaboration between academic, Research Council and partner such as Industry or Government.

Tuition fees

Tuition fees vary depending on the course you are studying and where you are from. Further details are available from: www.st-andrews.ac.uk/students/money/tuitionfees

Trusts and Charities

The Association of Charitable Foundations provides further information on charitable bodies that may have funding available: www.acf.org.uk

You may also wish to consult the Grants Register/ Directory of Grant Making Trusts available from most libraries. Online versions of many of these directories are available, but often require a subscription, for example: www.grantsforindividuals.org.uk

Isle of Man and Channel Islands

If you are normally resident in the Isle of Man or Channel Islands, you should approach the Island Education Authorities for more information about funding opportunities.

• States of Guernsey Education Department: www.gov.gg
• States of Jersey Education Committee: www.gov.je
• Isle of Man Department of Education: www.gov.im/education

International students

If you are classified as overseas for tuition fee purposes, you will be liable to pay the overseas tuition fee rate for your course. There may be funding available from your government, independent sponsors (like your employer), or from other awarding bodies.

The British Council website includes comprehensive information about grants and awards for international students studying in the UK:
www.britishcouncil.org
www.educationuk.org

If you are from the USA, you may wish to visit the US Department of Education for loan information and advice (www.studentloans.gov). We also have a dedicated US Loans officer to assist you: www.st-andrews.ac.uk/students/money/internationalstudents/loansforusstudents

Contact Details

T: +44 (0)1334 462254
E: pgscholarships@st-andrews.ac.uk
www.st-andrews.ac.uk/admissions/pg/financialinformation/pgscholarships
Twitter: @StAPgFunding
Welcome to St Leonard’s College – the University’s Research Graduate School – which supports and represents the interests of research postgraduates across the University.

**History of the College**

Last year we celebrated the 500th Anniversary of the founding of our mediaeval college, only 100 years after the original founding of the University itself. St Leonard’s College was originally established as a college for poor clerks of the Church of St Andrews, based on the older Hospital and Church of St Leonard within the Priory of St Andrews in 1512. Records of College Minutes date from 1710 but the College’s accounts date back to 1549 and include diet books from 1586-1743. Little would seem to have changed over the centuries – what is in our pockets and our stomachs remains important!

After falling on hard times during the eighteenth century, St Leonard’s College joined St Salvator’s College to form the United College. St Leonard’s College, however, was reconstituted as a postgraduate institute in 1972, and as the Research Graduate School of the University from August 2013.

The College provides a central point for the administration of all research postgraduate business. It plays a pivotal role in the dissemination and presentation of knowledge, the organising of postgraduate events, and the promotion of research skills training. The head of the College retains the historic title of Provost, and the current holder of the post is Professor Malcolm MacLeod – an experimental psychologist. He is supported by two Pro-Provosts (one who has responsibility for Arts & Divinity, and one for Science & Medicine). Through funding and strong support from the Provost’s office, the re-branding and expansion of St Leonard’s College in recent years has proved a great success with staff and students.

St Leonard’s College has also been given added impetus by the University’s desire to develop a growing, vibrant and intellectually demanding environment for advanced study. Led by a strategic vision that aims to position the University at the forefront of research excellence, the research postgraduate population at St Andrews has more than doubled over the last decade.

We are committed to delivering outstanding support and services for research postgraduates not only in terms of research and study facilities but also in terms of the intellectual reward associated with a vibrant community of home and international research postgraduates. As Scotland’s first university, the University of St Andrews is one of the leading research-intensive universities in the world, offering a postgraduate experience of remarkable richness.

As a research postgraduate you will have a number of identities within the University – including the academic School or Department to which you belong, the residence in which you live, or the clubs or societies you join. Additionally, however, you will also have an inclusive and overarching identity as a member of St Leonard’s College. Should you choose to join us at St Andrews as a research postgraduate, we hope that the experience of being a member of St Leonard’s College will contribute to that shared and inherently diverse sense of identity.

**St Leonards School Associate Researchers**

This fellowship is awarded by a local school, in conjunction with the Provost’s Office and is open to doctoral students from all disciplines. It offers an excellent opportunity for interaction with bright young people studying for their International Baccalaureate and helps them to develop an appreciation and knowledge of research. The Associate Researcher, who receives payment of £400, also provides a point of contact for students interested in following an academic career. In 2012, in recognition of the 500th Anniversary of the founding of St Leonard’s College, two Associate Researchers were appointed, Thomas Morgan and Dmitry Chernobrov. Dmitry is looking at modern international conflict through the lens of psychology. Thomas is working in the field of cultural evolution.
Affiliated both to St Leonard’s College and to the Students’ Association, the Postgraduate Society is led by the Postgraduate President and a Committee of enthusiastic and accomplished representatives from the postgraduate community. The Society’s overarching goal is to promote and defend the welfare of postgraduates, working towards this aim through two main strands of activity: representation and events.

The Postgraduate Society therefore builds and maintains links with a variety of different bodies across the University in order to identify issues of current or potential interest to postgraduates and to ensure that postgraduates have a voice in processes and matters which are of importance to them. Through the Postgraduate Society, postgraduates are also represented at the two main committees which oversee the day-to-day activities of the Students’ Association – the Students’ Representative Council (SRC) and the Student Services Council (SSC). In addition, the Postgraduate President sits on a number of University committees.

All matriculated postgraduate students are automatically members of the Postgraduate Society, and receive regular email updates with news of the many exciting events and activities that are planned each year. Organising an academic and social events calendar corresponding to the interests of the student body, as well as supporting other organisations and societies in developing programmes and events for postgraduates, is vital. The Postgraduate Society aims to provide events for everyone: some with a scholarly flavour, but also formal balls, wine receptions and other more informal social evenings, pub quizzes, day-trips, barbecues and sporting events. We very much look forward to welcoming you into our thriving postgraduate community!

Dani Berrow
Postgraduate President 2012-2013
The University provides an extensive and award-winning generic skills development programme – GRADskills – for all of its early career researchers, including PhD and MPhil students.

We offer a wide range of workshops, symposia, conferences and other development opportunities from which you can select to meet your individual training requirements, academic interests and career ambitions. GRADskills is based in the Centre for Academic, Professional and Organisational Development (CAPOD).

www.st-andrews.ac.uk/capod/gradskillsprogramme

GRADskills supports you in developing transferable skills to enhance your research capabilities and widen future employability. It has been designed with input from current postgraduates, postdoctoral fellows and academic supervisors, and as a result of recommendations from the UK research councils and other national authorities. The various elements of the programme have been mapped against the Vitae Researcher Development Framework. The high quality of the programme is maintained by combining the expertise of St Andrews’ own academic and support staff with that of external consultants and training professionals.

www.vitae.ac.uk/researchers/428241/Researcher-Development-Framework.html

Participation in the GRADskills Programme also allows you to take advantage of events offered in collaboration with other Scottish universities and national organisations such as Vitae.

An introduction to GRADskills is given at Postgraduate Induction, and you are kept up-to-date with ongoing programme developments and opportunities throughout the year via GRADskills e-memos and the GRADskills section of the CAPOD web pages. All GRADskills courses and events can be viewed and booked online using the University’s online booking system PDMS.

www.st-andrews.ac.uk/pdms

GRADskills aims to help you realise your personal potential and achieve your research and career goals, so that you can make the most of your postgraduate experience at St Andrews. For more information, visit CAPOD’s research postgraduate student web pages at:

www.st-andrews.ac.uk/capod/students/pgresearch
The Research Support sections of Finance and the Knowledge Transfer Centre (KTC) together provide proactive support for the University’s high-quality research and related commercial activities.

**Research support**

The Finance Department offers a comprehensive support service to academics in all aspects of research awards and contracts from pre-application (ideas/finding funding and costing stage) to award (contract negotiation, project account setup, invoicing and financial reporting).

Within the Finance Department there are two sections providing research support: Research Business Development and Contracts (RBDC) and Finance Advice and Support (FAS). The Research Support sections of Finance are located on the top floor of The Gateway, and provide:

- Direction to sources of funding and guidance on the priorities of external funding agencies; access to European Funding through identification of new opportunities, including the Framework Programme (FP7) and the European Research Council.
- Research support and development of new University business by developing and cultivating links to research sponsors, industry and Government.
- Drafting and negotiation of appropriate research related contracts which balance risk and intellectual benefit.
- Effective costing methodology to produce an estimate of the full cost and to agree an appropriate price on behalf of the University.
- Post-award financial management and reporting of research grants and contracts.

In 2011-2012 the total value of research grants and contracts awarded to the University was in excess of £39million.

www.st-andrews.ac.uk/researchsupport

**Knowledge Transfer Centre**

The KTC supports the applied development and commercialisation of innovative research findings by sourcing development funding and encourages technology transfer through licensing and company formation. The offices have a linked and complementary role to assist all researchers, staff and postgraduate students.

The KTC provides the following:

- Encouragement, advice and support to all staff and postgraduate research students involved in KT.
- Co-ordinates a range of KT activities and responses.
- Manages, maintains and protects the University’s intellectual property rights (IPR) and effects their development and consequent commercial transfer to industry through both licensing and the formation of spin-out companies.
- Formulates bids for external technology development funding and for specific KT activities to be managed and delivered through the Centre.

www.st-andrews.ac.uk/ktc
The University embraces sustainable development across all of its operations and we are recognised as being an institution that is actively implementing imaginative solutions and initiatives that achieve the aims of a more sustainable society.

www.st-andrews.ac.uk/environment

Involv Yourself

- **Transition University of St Andrews**: join in with projects to reduce carbon, build community and foster sustainable behaviour.
- **Impact St Andrews**: participate in awareness raising and engagement on global and local issues.
- **University of St Andrews Edible Campus**: help produce food in our organic garden and learn about permaculture principles. Increasing numbers of staff and students are enjoying the benefits of sowing, growing and eating their own food on sites across the University. These growing spaces also add visual appeal and contribute to local biodiversity too.
- **One World Society**: campaign on ethical issues and help run a Fairtrade Co-operative.
- **Regular student led ‘Green Week’**: with different societies and groups running events and generally promoting environmental issues across the University.

You can help us by bringing your bike not a car

St Andrews is a small town (two miles from one end to the other) and is fairly flat so you do not need a car, especially as there is limited long-term parking. There are c.1,000 covered spaces for bike storage. The distance between the furthest University buildings is a 15-minute cycle ride and there are dedicated cycle lanes on some of the streets.

www.st-andrews.ac.uk/media/cyclemap.pdf

Our vision?
Reducing our carbon footprint through innovation.

Our three-part Energy Strategy:

- **Behaviour Change**: encouraging reduction in energy consumption such as the inter-hall energy competition in halls of residence which last year achieved savings of 48 tonnes of CO₂.
- **Energy Efficiency and Investment**: ensuring highest energy efficiency in the built environment.
- **Micro and Macro Renewable Energy**: investing in solar thermal heating on our residential and science buildings, solar PV electrical generation and ground source heat pumps on site. Our macro renewables plans will lead to a carbon reduction of 27,000 tonnes per annum.

Fairtrade status
Fairtrade foods are on sale in all University shops, cafés and provided at meetings. Both the University and the town of St Andrews have Fairtrade status.

St Andrews Sustainability Institute
This successful multi-disciplinary research centre involves people from across the University and acts as a source of advice on sustainable development, helping St Andrews to emerge as a hub for sustainability research.

www.st-andrews.ac.uk/sasi

Sustainability in action

- This year the University has recycled 69% of our waste which is equivalent to the weight of 342 elephants! We have also composted five tonnes of fruit and vegetable waste from our halls of residence in our own on-site composter named Hamish which is then used on the University estate.
- Sustainable development policy and strategy supported by the Principal and University Court
www.st-andrews.ac.uk/environment/sdstrategy
- Dedicated Environment Team developing the ideas and vision to deliver improved environment and sustainability performance.
- Working closely with and utilising expertise from the academic, student and local community to respond to the University’s sustainability objectives and collaboration on sustainability issues.
- Rolling £1.9million energy investment (Salix) fund to ensure energy efficiency measures are fitted in all of the University estate. The fund is the largest and most successful in the UK higher education sector.
- All new builds since 2010 achieve BREEAM Excellent green building certification. Our latest research laboratory is the first BREEAM Outstanding building in Scotland and the first Outstanding laboratory in the UK.
- Ethical Investment programme developed through student consultation.
- Establishment of a staff environmental awareness programme with a network of ‘environmental facilitators’ across all Schools and Units.

Your prospectus has been printed on recycled paper, as are all of our other Admissions publications. Please recycle when you are finished with it.
Accommodation

Halls of Residence

We realise that embarking on postgraduate studies at the University is an exciting time and finding the right place to live is important. With nearly 700 postgraduate bedrooms and a fantastic variety of accommodation to suit all tastes and budgets we are sure that we have something for everyone. A map at the back of this Prospectus shows the location of our residences. We recommend that you visit Student Accommodation Services’ web pages for up-to-date rental price information. Whilst visiting our web pages please take a few moments to familiarise yourself with the full range of facilities on offer in each residence, prior to making your online application: www.st-andrews.ac.uk/students/accommodation

Supporting the living experience

Your life in halls of residence is supported by a Wardennial Team who take responsibility for encouraging a sense of community and will be the first point of call if a health crisis occurs, or if you have a personal problem. There are opportunities for single postgraduate students to join the Wardennial Team, the role includes a scholarship. For further information, please see: www.st-andrews.ac.uk/accommodation/pg/awrole

Houses and flats

Student Accommodation Services manage a range of studio apartments, flats and houses primarily designed for mature students, couples, or those with families, please visit: www.st-andrews.ac.uk/accommodation/pg/prospective/married

We also run an online database of private sector properties in the town and surrounding areas. The site provides advice that will be particularly helpful to those new to renting in Scotland. Renters can search the database by occupancy date, number of rooms, rent and location with useful maps included.

For further information regarding accommodation available in the private sector, please go to: www.standrewsstudentpad.co.uk

To view our managed properties: www.st-andrews.ac.uk/accommodation/ug/current/managed

Students with disabilities and limiting long term illness

The University gives all possible support to disabled students and those with limiting long term illness. To enable us to work with you to help meet your individual requirements, it is important that you provide full information on your application form of anything that is likely to impact on your accommodation needs. Since the University understands that disability is not always visible or related to physical impairments, our Student Services and Wardennial Teams can also provide additional support. We have a number of adapted rooms and we encourage you to visit the accommodation to see the facilities and talk to Student Accommodation Services before you accept a place in residence. If you want us to take account of your special circumstances, please let us know as soon as possible.

How and when to apply

Once you have received an offer and accepted a place to study at the University, regardless of whether your offer is conditional or unconditional, if you would like to be considered for halls of residence or managed properties please apply from the 1 April. We try to allocate based on your first preference but cannot guarantee this. Please ensure, therefore, that you are happy with all the preferences that you have selected.

Please note that postgraduate students are not guaranteed accommodation.

Further information

Student Accommodation Services,
Butts Wynd, North Street, St Andrews, Fife KY16 8YL.
T: +44 (0)1334 462510
E: accommodation@st-andrews.ac.uk
Opening hours: Monday-Friday 9.30am-4.30pm

For further information on what our residences can offer you, including current accommodation prices and how to apply, please visit: www.st-andrews.ac.uk/accommodation/pg

Return to Contents
The Library is central to your life as a postgraduate student. We will help you access and use the information you need to support your research.

The Main University Library:
- is open 14-18 hours a day during semester, including weekends.
- offers flexible study spaces: café, group rooms, silent/individual areas or informal and relaxed spaces.
- holds over one million volumes, a large e-book collection, thousands of print and electronic journals and academic databases.
- offers expert subject-specific support and training on finding information and using referencing software.
- has a fast Inter-Library Loan service and reciprocal borrowing rights with local and national universities.
- has been modernised and is a welcoming space where staff are always happy to help.

In addition to the Main Library, you can use:
- The Martyrs Reading Rooms. Developed in 2013 in an historic church building, Martyrs offers an inspiring space, exclusively for research students and staff. The research reading room is located in the original nave, with a public reading room for our Special Collections in the adjacent church hall.
- The recently renovated JF Allen Library, which holds resources for science subjects and offers a variety of study spaces.
- St Mary’s Library for Divinity and Mediaeval History, including the historic King James Library.

The University Library’s Special Collections Division:
- houses 210,000 rare printed books.
- is strong in theology, classics, history, English and Scottish literature.
- includes the University’s manuscript and photographic collections and the University archives.

www.st-andrews.ac.uk/library
Twitter: @St Andrews UniLib

IT Services
We realise that IT is an important part of your University experience as a postgraduate student and we offer a wide range of services to ensure you access the systems and services you need. We have wireless access across more than 95% of University buildings. We provide you with a St Andrews computer account giving access to computing facilities including the University’s student email service SaintMail, Internet access, learning materials and e-resources, and personal secure file storage. Access to these online services is collected together in the University’s student portal iSaint.

Our Research Computing Team provides liaison and technical development services for mainly funded research projects, including support for the technical components of applications for research funding. The expertise of the team also includes aspects of research data management and digital preservation.

Many University Schools provide their own IT facilities; several have their own internal computing officers for local support and collaboration. In addition we provide a number of open-access PC classrooms across the University.

We can provide email and web spaces for collaborative groups as well as for individual use, along with blogs, wikis and videoconferencing facilities. When you are away from the University, you can reach our network via broadband or wireless connection; a VPN connection will then give you full access to all the services available on our network.

More detailed information is available via:
www.st-andrews.ac.uk/itsupport
Follow us on twitter:
https://twitter.com/StAITServices
The University aims to provide a supportive academic and social environment for postgraduates. During your studies there may be times when you need some help and advice, and we offer an extensive range of support to ensure that on both an academic and personal level, your experience as a postgraduate is successful and fulfilling.

Student Services has established a one-stop-shop so that students only need to follow one easy route and the relevant help will be provided by appropriately qualified members of the team. This service is made up of a team of professionally qualified staff who are there to assist you on any issue from financial hardship, academic concerns or problems, accommodation issues, long-term medical conditions and disability, as well as more personal matters such as relationship difficulties. For international students there are advisers who can assist with immigration and related matters.

Visit Student Services at the Advice and Support Centre (ASC), 79 North Street, St Andrews, KY16 9AL.
T: +44 (0)1334 462020
E: theasc@st-andrews.ac.uk
www.st-andrews.ac.uk/student-services

Financial assistance and Discretionary Funds

The government has established Discretionary Funds to provide additional financial support to home students suffering financial hardship. Please note, they cannot be used to help with tuition fee costs. Anyone with financial difficulties or who wishes for financial advice should contact Student Services. For more information please view:
www.st-andrews.ac.uk/pgstudents/money
E: theasc@st-andrews.ac.uk

Childcare

If you require information about childcare provision in the St Andrews area, please contact Student Services. We can provide details of nurseries, childminders and after school care services. For more information:
www.st-andrews.ac.uk/students/advice/family

International Students

The University of St Andrews welcomes students from around the world and our student community is very diverse. Help and advice on all issues affecting international students is available before, during, and after your studies from our International Advisers. It is essential that you read the UK immigration website information before making any visa or entry clearance application to study in the UK and to contact the International Adviser for assistance if necessary. Information is also available at:
www.st-andrews.ac.uk/international/information/visas

Chaplaincy / Faiths

The Chaplain and Chaplaincy facilities are available to all members of the University community whether or not you follow any spirituality. Mansefield provides a meeting place for individuals and groups. Various faith groups meet here, and a prayer room is set aside for Muslim students. The Islamic and Jewish Chaplains can be contacted through the Chaplaincy, as can people from different denominations and a range of faiths. The Chaplain may be approached in confidence about any matter, whether or not related to faith. Further information can be obtained from:

The Chaplaincy, Mansefield, 3 St Mary's Place, St Andrews Fife, KY16 9UY.
T: +44 (0)1334 462866
www.st-andrews.ac.uk/chaplaincy
Student Life

**Intellectual life**

The University offers a vibrant intellectual community with an extraordinary number of lectures and seminars throughout the year, many of them by world-class scholars. Information on all the lectures, seminars and talks around the University can be found on the Current Postgraduates section of the website: www.st-andrews.ac.uk/pgstudents

Many Schools and Departments also play host to international conferences, and postgraduate students find these of immense value.

**Student Societies**

There are a huge number of student societies and sports clubs available to all postgraduate students. Further information on sport can be found on page 22.

The Students’ Association is responsible for running over 140 different societies, covering every possible interest, for the benefit of the students. Their website has an A-Z list of all affiliated societies and there is a chance to sign up for any that interest you at the Societies Fayre held during Orientation Week in September. www.yourunion.net/activities/societies

The beautiful unspoilt beaches with fresh clean air and wide expanse of sky provide the perfect antidote to the classroom or laboratory. They encourage either a quiet thoughtful stroll or a bracing walk with a group of friends along the two unbroken miles of the West Sands. Or you can take to the water either as a surfer on the waves of the East Sands, or enjoy many other water sports – such as sailing, sea kayaking, wind surfing or kite flying. You can also experience a spectacular walk to the end of the stone pier – camera at the ready to capture historic views of the twelfth-century cathedral and castle.

St Andrews is the home of golf – where it was first invented – and there are ample opportunities for the keen golfer with seven courses locally which often host major international competitions.
Music

St Andrews enjoys an exceptionally lively programme of student music-making. The Music Centre provides facilities for individual and group rehearsal and tuition by highly regarded teachers in voice and almost every instrument. It also organises popular lunchtime and evening concerts, given by visiting professionals from throughout the UK. A music technology studio is available with various composition packages, pianos, harpsichords and a good collection of orchestral instruments. The University also has two-manual organs in both the Younger Hall (Harrison & Harrison) and St Leonard’s Chapel (Walker & Son), and a fine four-manual instrument in St Salvator’s Chapel.

St Andrews is the only Scottish university with a professional orchestra in residence: the Scottish Chamber Orchestra, one of the UK’s leading ensembles, performs five times each year and gives frequent master classes and workshops.

There are also two Chapel Choirs: the St Salvator’s Choir sings at University services and tours abroad each year. The St Leonard’s Choir sings at a late-night candlelit service during term. Both choirs offer choral scholarships, as do several other choirs in St Andrews.

Scholarships are also available for particularly promising students in the form of free instrumental or vocal tuition. In addition, the Hebdomadary’s Music Fund can provide financial help for students who would otherwise find it hard to pay for lessons.

Music Centre
T: +44 (0)1334 462226
E: music@st-andrews.ac.uk
www.st-andrews.ac.uk/music

Entertainment

There is a friendly, cosmopolitan vibe pulsating through St Andrews. Most students get around by walking or cycling and so it is not necessary to have a car.

There is a lot to do here with dozens of restaurants to suit all tastes and budgets and more pubs per square foot than anywhere else in Britain. The independent cinema has three theatres and shows current blockbusters and art-house films, in conjunction with the University’s Film Studies Department.

What is nearby?

Beyond St Andrews you can nip down to Anstruther (9 miles / 14 km away) for fish and chips at the award-winning fish bar. Dundee is only 13 miles / 21 km away and Edinburgh is an hour by train. There are express buses that run to major Scottish cities, almost hourly. Naturally there are many opportunities to travel north to the stunning Highlands and Islands for which Scotland is world renowned.

Students come from the far corners of the globe, and are embraced by the town and University and are made to feel part of the community, however long they are studying here.
Sport is a vibrant, exciting and dynamic part of University life; with over 50 sports clubs and 100 competitive sports teams, with participants ranging from complete beginners to international athletes, Saints Sport has something for everyone. Expert strength and conditioning is provided, a sector leading volunteering programme, pre-season and warm weather training camps, excellent recreational opportunities and a vibrant fitness class programme.

### Student Sports Clubs

The many student sports clubs are at the core of Saints Sport. These serve a variety of different interests, from highly competitive teams within university-level and national league competition to recreational and social activities, including regular trips across Scotland and further afield. All of this activity is student-led but with the support of a number of professional staff and coaches. There is a strong programme of training and support available for students who run these activities as coaches, officials and volunteers. The University also provides volunteering opportunities from local projects, to national programmes and international initiatives.

For more information on any student sport activity and for the relevant contact details please visit the Saints Sport web pages: [www.st-andrews.ac.uk/sport](http://www.st-andrews.ac.uk/sport)

### Saints Clubs

<table>
<thead>
<tr>
<th>Clubs</th>
<th>Saints Clubs</th>
<th>Saints Fitness Classes</th>
<th>Fitness Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aikido</td>
<td>Cricket (M)</td>
<td>Hockey</td>
<td>Fitness consultation: for fitness advice and help planning your exercise routine.</td>
</tr>
<tr>
<td>Archery</td>
<td>Cricket (W)</td>
<td>Ice Hockey</td>
<td>Personal exercise plan: custom made fitness plan, tailor made to suit your needs.</td>
</tr>
<tr>
<td>Athletics</td>
<td>Cross Country</td>
<td>Ice Skating +</td>
<td>Fitness bundle: a cost-effective solution for those on a budget (includes fitness consultation, three-person training sessions and an exercise plan).</td>
</tr>
<tr>
<td>Badminton</td>
<td>Cycling</td>
<td>Curling</td>
<td>Personal training: for one-to-one or group sessions.</td>
</tr>
<tr>
<td>Basketball</td>
<td>Dance</td>
<td>Inline Hockey</td>
<td>Strength and conditioning: to improve sports performance.</td>
</tr>
<tr>
<td>Boat Club</td>
<td>Fencing</td>
<td>Jujitsu</td>
<td></td>
</tr>
<tr>
<td>Boxing Club</td>
<td>Football</td>
<td>Judo</td>
<td></td>
</tr>
<tr>
<td>Canoe</td>
<td>Golf (M)</td>
<td>Karate</td>
<td></td>
</tr>
<tr>
<td>Cheerleading</td>
<td>Golf (W)</td>
<td>Korfball</td>
<td></td>
</tr>
<tr>
<td>Clay Pigeon</td>
<td>Gymnastics</td>
<td>Lacrosse (M)</td>
<td></td>
</tr>
<tr>
<td>Lacrosse (W)</td>
<td>Rugby Union (M)</td>
<td>Table Tennis</td>
<td></td>
</tr>
<tr>
<td>Lifesaving</td>
<td>Rugby Union (W)</td>
<td>Taekwondo</td>
<td></td>
</tr>
<tr>
<td>MMA</td>
<td>Sailing</td>
<td>Tennis</td>
<td></td>
</tr>
<tr>
<td>Mountaineering</td>
<td>Shinty (M)</td>
<td>Touch Rugby</td>
<td></td>
</tr>
<tr>
<td>Netball</td>
<td>Shinty (W)</td>
<td>Trampoline</td>
<td></td>
</tr>
<tr>
<td>Polo Club</td>
<td>Snowsports</td>
<td>Triathlon</td>
<td></td>
</tr>
<tr>
<td>Riding</td>
<td>Sub Aqua</td>
<td>Ultimate Frisbee</td>
<td></td>
</tr>
<tr>
<td>Rifle</td>
<td>Surfing</td>
<td>Volleyball</td>
<td></td>
</tr>
<tr>
<td>Rugby League (M)</td>
<td>Swimming</td>
<td>Water Polo</td>
<td></td>
</tr>
<tr>
<td>Rugby League (W)</td>
<td>Windsurfing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Saints Fitness Classes

The Department of Sport and Exercise is proud to offer the newly branded Saints Fitness exercise programme. This vibrant programme of exercise classes is open to all and offers a wide variety of classes to suit all levels and abilities. Classes include Zumba, spin, bootcamp and yoga.

### Fitness Services

Our team of fitness professionals are here to help, with a range of services to suit all of your health, fitness and sporting needs:

- **Fitness consultation**: for fitness advice and help planning your exercise routine.
- **Personal exercise plan**: custom made fitness plan, tailor made to suit your needs.
- **Fitness bundle**: a cost-effective solution for those on a budget (includes fitness consultation, three-person training sessions and an exercise plan).
- **Personal training**: for one-to-one or group sessions.
- **Strength and conditioning**: to improve sports performance.
The University is committed to the pursuit of academic and sporting excellence. We have six Directors of Sport, in designated ‘Focus Sports’ – Rugby, Tennis, Football, Waterpolo, Golf and Ultimate, and Head Coaches in various sports such as Boat, Hockey and Volleyball. Particular attention is paid to developing the Focus Sports, plus Fencing and Canoe, in the following ways:

- **Improving performance**: providing excellent opportunities and support structures to allow individuals and teams to fulfil their sporting aspirations, in particular in Scottish Student Sport (SSS), British Universities and Colleges Sport (BUCS) and other national and international events and leagues.
- **Growing participation**: providing high quality training and competitive experiences that attract students to become part of University sport.
- **Outreach and sustainability**: providing educational and volunteering experiences that enhance employability and the sustainability of future sport development.

For more information visit: [www.st-andrews.ac.uk/sport/performance/focus](http://www.st-andrews.ac.uk/sport/performance/focus)

**Sports Scholarships**

The University supports individual student athletes studying at St Andrews and competing on the international stage. Typically there are five £1,000 scholarships offered per year. For more information visit: [www.st-andrews.ac.uk/sport/performance/saintssportscholarships](http://www.st-andrews.ac.uk/sport/performance/saintssportscholarships)

**Golf bursaries**

The University receives an annual grant from the R&A to part-fund a golf development programme for talented golfers, and this is one of the leading golf programmes in the UK. The programme is open to any matriculated student who reaches the required standard. For more information visit: [www.st-andrews.ac.uk/sport/performance/saintssportscholarships/golfbursaries](http://www.st-andrews.ac.uk/sport/performance/saintssportscholarships/golfbursaries)
We provide the following resources to support you:

- One-to-one advice from a Careers Adviser who has postdoctoral research experience, opportunities for researchers.
- Comprehensive web pages, which include information about moving on to further research, as well as advice on academic and postdoctoral work: www.st-andrews.ac.uk/careers
- An extensive alumni network with advice on how to source appropriate contacts to grow your own career network.

Using the Careers Centre

- The Careers Centre encourages you to use its services throughout your degree, to ensure you benefit fully from the many career-related opportunities which St Andrews offers.
- Employers are on campus every semester, including at our Career Fairs, with an increasing number coming to talk specifically to postgraduates.

Recent destinations and careers for graduates from research postgraduate courses at the University of St Andrews include:

- Philosophy Lecturer, New York University; Management Lecturer, Griffith University; Research Associate (Management Studies), University of Cambridge; Postdoctoral Researcher (Chemistry), University of Nottingham; Chemistry Fellow, Japanese Society for the Promotion of Science; Research Assistant (Psychology), Harvard University; Principle Ecologist, RPS Group PLC; Higher Education Officer, The Physiological Society; Career Development Fellow, Medical Research Council; Research Fellow (Physics), Israel Institute of Technology; Survey Analyst, Scottish Government; Technical Development Technician, Silberline Ltd; Hybrid Battery Subject Matter Expert, Jaguar-Landrover; Senior Research Associate (Physics), University of New South Wales; Project Leader, UN.

2010-2011 Research Postgraduate Destination Statistics* (for EU, including UK, graduates)

88%

1% 7% 3%

Employment
Work and further study
Further study only
Seeking Employment
Not available for employment

Source* Higher Education Statistics Agency
“I had never really considered postgraduate study and was intending to take up the job I had been offered after graduation. It wasn’t until I began my undergraduate research project, where I found both the science interesting and working with the staff of the neuroscience department enjoyable, that I decided to apply for postgraduate study.

I am now completing a four year PhD course and the funding I received consists of three quarters PhD work and one quarter teaching/technical support, which suits me very well as I still get some teaching experience.

St Andrews is a fantastic place to live and work. The close-knit community ensures you are well supported, and I feel having already worked here for some time gave me a head start with my studies.”

Emily
PhD Neurobiology (2014)

“I hadn’t always known I would do a postgraduate degree and took a rather roundabout route to starting one. My subject is one where an advanced degree is helpful but not required so I weighed the pros and cons very carefully before deciding to apply.

In the end, I felt the structure of the programme at the University of St Andrews, access to the academic community and the connections it might one day provide, were worth the personal and financial costs. Postgraduate study also allowed me the time and space to write, which I would not have been able to do had I not gone back to university.”

Shannon
DPhil Creative Writing (2013)

“I enjoyed my undergraduate degree and was passionate about my subject. At the end of my degree, I knew I didn’t want to join a graduate training programme but I still wasn’t sure which aspect of Geography to continue with so I decided to take a gap year. I worked as a ski rep in Austria, and although the job was fun, I wanted something more challenging. I missed academia and engaging with difficult problems.

In addition to the subject specific skills that I’ve developed, I have learned how to manage large volumes of data, prepare and deliver presentations to large audiences, how to independently research new subjects and to compile that research into accessible documents. I have developed my skills with a range of specialist statistics and graphics software, and know how to design web pages. I have also learned about effective communication, through participating in various knowledge exchange courses.”

Georgina
PhD Geography (2012)
### Centre for Higher Education Research (CHER)
Dr A Laidlaw (ahl1)

Our Centre consists of approximately 50 staff across 17 Schools and 6 central University units. We aim to facilitate cross-departmental collaboration in higher education research. The Centre brings together staff interested in conducting evidence-based higher education research to inform local, national and international policy and practice, and to promote a reflective, analytical view of higher education activities. [www.st-andrews.ac.uk/cher](http://www.st-andrews.ac.uk/cher)

### Biology, Chemistry & Medicine

#### Biomedical Sciences Research Complex (BSRC)
Professor J Naismith (jhn)

We occupy modern, purpose built laboratory space adjacent to the Schools of Medicine and Physics & Astronomy and physically linked to the School of Chemistry. Our ethos is to break down barriers between scientific disciplines and conduct world-class research with the broad theme of infection and immunity. Large multi-group laboratories focus on structural biology, molecular microbiology, virology, chemical biology and molecular medicine. There are state-of-the-art facilities for mass spectrometry, X-ray crystallography and robotics, EPR, NMR and imaging. Recent highlights of our work include the development of new classes of inhibitors against bacterial, parasitic and viral disease. In addition there have been fundamental discoveries in our understanding of immunity and DNA repair. These projects emphasise the interdisciplinary nature of the BSRC. [www.st-andrews.ac.uk/bsrc](http://www.st-andrews.ac.uk/bsrc)

#### Centre for Magnetic Resonance (CMR)
Professor M Bühl (mb105)

Our Centre joins research groups from the three grade 5 Schools of Physics & Astronomy, Chemistry and Biology in St Andrews and research groups in Dundee and Edinburgh, all working in the fields of liquid or solid-state Nuclear Magnetic Resonance (NMR), Dynamic Nuclear Polarization (DPN), Electron Paramagnetic Resonance (EPR), Muon Spin Rotation or Computational Magnetic Resonance. The aim is to provide a platform for an exchange of ideas, to stimulate discussion, and to strengthen cooperation, research, and grant applications. [www.st-andrews.ac.uk/cmr](http://www.st-andrews.ac.uk/cmr)

#### Centre for Biological Diversity (CBD)
Professor A Magurran (aem1)

We are situated in the recently refurbished Sir Harold Mitchell Building, and we build on the University’s strengths in fundamental and applied research into the origins and maintenance of biodiversity, with particular strengths in animal behaviour and evolutionary ecology. Our remit is interpreted broadly, and encompasses many aspects of evolutionary biology, ecology and behavioural science. We weave together traditionally separate strands of research, such as ecology, molecular biology and biodiversity accountancy, to advance the science that underpins the diversity of life and contributes pro-actively to policy that protects it. The Centre also has well-developed strengths in evolutionary biology, behavioural and genetic analysis and biodiversity metrics. [http://biodiversity.st-andrews.ac.uk](http://biodiversity.st-andrews.ac.uk)

### Art History

#### Museums, Galleries and Collections Institute (MGCI)
Ms A Gunn (avg1)

We carry out research, education and training in cultural heritage, with a particular focus on museums, art galleries and historic houses and their collections. MGCI is founded upon the expertise built up over many years from running Museum and Gallery Studies courses, which has helped to establish us as Scotland’s leading centre for training and research in the heritage sector. [www.st-andrews.ac.uk/arthistory/research/mgci](http://www.st-andrews.ac.uk/arthistory/research/mgci)

### Scottish Oceans Institute (SOI)
Professor I Johnston (iaj)

Our Institute was created in 2009 to bring together all the marine science research being carried out in the Schools of Biology, Geography & Geosciences and Mathematics & Statistics. We operate a seaside marine station at the East Sands (formerly the Gatty Marine Laboratory) which houses the Sea Mammal Research Unit (see below), with world-renowned strengths in bioacoustics, physiology, ecology, behaviour, conservation biology and oceanography, alongside a diversity of marine-related research groups, covering fish physiology and ecology, evolutionary genomics, sedimentary ecology, developmental biology and pelagic ecology. We support three inshore vessels, one of which has been specially designed for operations to study marine mammals. [http://soi.st-andrews.ac.uk](http://soi.st-andrews.ac.uk)

#### NERC Sea Mammal Research Unit (SMRU)
Dr A Hall (ajh7)

Our Unit is a world-leading centre for interdisciplinary research on seals, whales and dolphins. We are an integral part of the SOI complex (see above) and host about 80 staff and postgraduate students who work on projects in all the oceans of the world and in collaboration with many colleagues worldwide. Our purpose-built laboratory space includes a marine aquarium and a unique licensed facility for captive studies of marine mammals that attracts researchers from throughout the world. We also offer an MRes degree in Marine Mammal Science, which is designed to train postgraduate students in the latest theory, knowledge and methods in marine mammal science. [www.smu.r.st-andrews.ac.uk](http://www.smu.r.st-andrews.ac.uk)

### See also

- [Institute of Behavioural and Neural Sciences (IBANS)](http://www.ibans.st-andrews.ac.uk), page 33
- [Organic Semiconductor Centre (OSC)](http://www.organic-semiconductor-centre.org.uk), page 33
- [Centre for Research into Ecological and Evolutionary Modelling (CREEM)](http://www.creem.org.uk), page 31
Classics
Centre for the Study of Ancient Systems of Knowledge (LOGOS)
Dr J P König (jpk3)
The Centre was set up in 2001 to develop collaborative research projects into the systems of knowledge by which Greeks and Romans organised their understanding and description of the world. Our Centre brings together expertise and an impressive research track record in the study of science and religion, of legal, mathematical, aesthetic and philosophical modes of thought, and in historiographical and hermeneutic traditions of writing. We are based in the School of Classics with occasional participation from academic staff in Divinity, English, History and Philosophy, together with members of other Schools whose interests include the ancient world. Recent work includes a Leverhulme-funded project entitled ‘Science and empire in the ancient world’, and a project on Stoic receptions of Plato. www.st-andrews.ac.uk/classics/research/logos

Computer Science
Centre for Interdisciplinary Research in Computational Algebra (CIRCA)
Professor S A Linton (sl4)
Computers play an increasing role in modern mathematics, and computation plays an increasing role in mathematics and in applications such as cryptography, computer science, physics and engineering. We bring together mathematicians with an interest in computation, together with computer scientists who develop and study computational techniques that apply in mathematics. On the mathematical side, we particularly focus on abstract algebra including group theory, the mathematical theory of symmetry, and generalisations, as well as combinatorics. In computer science, we work on parallel computing and constraint programming. We develop, maintain and apply two major open-source software systems: GAP for computational algebra and discrete mathematics and Minion for Constraint Programming. www-circa.mcs.st-andrews.ac.uk

Divinity, Religion & Theology
Centre for the Study of Religion and Politics (CSRP)
Professor M Aguilar (mia2)
Our Centre was founded in November 2004 by a group of academics attached to the Schools of Divinity, International Relations, Modern Languages, and Philosophical, Anthropological & Film Studies. Our aim is to focus on, among other things, the relation of the practice of religion and its political context; theologies as religious narratives focusing on the religious communities that created them in a particular social and political context; the history of the Christian Churches in context, with emphasis on the study of religion and politics in Latin America, Africa and Asia; the history of world religions and their involvement within particular social and political contexts; and indigenous religious narratives and their influence in contemporary political issues such as indigenous rights, political activism and new religious movements. www.st-andrews.ac.uk/divinity/rt/csrp

Institute for Bible, Theology and Hermeneutics
Dr M W Elliot (mwe1)
Our Institute was launched in July 2009. It aims to encourage biblical studies and systematic theology to cooperate on how to interpret the Bible as a theological resource for today, with one eye on how this has been undertaken during the history of the Church. We do not wish to shy away from critical questions in any sub-discipline but rather intend these to be integrated with theological questions. Scott Hafemann is the Co-director of the Institute. We have run workshops on Sacred and Secular Scriptures and on the Nature of Biblical Theology, the Parousia of Christ, the aims of Biblical Theology, Theological Interpretation of the Bible, and the History of Biblical Criticism. Last year we enjoyed hosting a conference on Galatians and Christian theology (proceedings to be published by Baker; previous volumes – John, Hebrews, Galatians – by Eerdmans). It is also ‘home’ to the MLitt in Scripture and Theology. www.st-andrews.ac.uk/divinity/rt

The Institute for Theology, Imagination and the Arts (ITIA)
Professor T A Hart (tah)
We were established in October 2000, with the aim of advancing and enriching an active conversation between Christian theology and the arts – by bringing rigorous theological thinking to the arts, and bringing the resources of the arts to the enterprise of theology. In doing so we seek to explore the role of the imagination in the arts, as part of a wider theological interest in the imaginative aspects of our humanity. Among our other activities, we host a weekly postgraduate research seminar, offer a taught postgraduate Masters programme, organise regular international conferences and other events such as public lectures and concerts. Our staff include Professor David Brown and Dr Gavin Hopps. More information about ITIA is available at: www.st-andrews.ac.uk/itia
Economics & Finance
Centre for Dynamic Macroeconomic Analysis (CDMA)
Professor K Mitra (km91)
Our Centre was established by a direct grant from the University in 2003. The Co-Director is George W Evans. Our programme of research is centred on macroeconomic theory and policy, and we disseminate working papers and host conferences and workshops. We have affiliated staff from St Andrews and elsewhere with interests in the broad area of dynamic macroeconomics. The international Advisory Board comprises a group of leading macroeconomists. The Centre is currently engaged in a number of specific research projects, in particular the role of learning and expectations in macroeconomic theory and policy, expectational models to explain financial market bubbles and crashes, the macroeconomics of financial globalisation, labour market dynamics, interactions between finance, growth and institutions and the economics of corruption, inequality and income distribution. www.st-andrews.ac.uk/cdma

English
Centre for Mediaeval and Early Modern Law and Literature (CMEMLL)
Professor L M Hutson (lmh10)
Many postgraduates in the arts and humanities find that their research at some time involves an encounter with legal archives, concepts or texts. The Centre offers postgraduates these opportunities and resources. We draw on the expertise of staff from the Schools of English and History, together with distinguished visiting speakers from Law, History and English Departments from all over the world. We host a reading group which meets twice a semester and we welcome suggestions from postgraduates; we are not limited to mediaeval and early modern history, but discuss contemporary theorists as well. We have supported postgraduate conferences, such as ‘Bonds, Lies and Circumstances: Discourses of Truth-Telling in the Renaissance’ (March 2013) and ‘Gender and Transgression in the Middle Ages’ (May 2013). All postgraduates are welcome.
www.st-andrews.ac.uk/cme
See also Centre for the Study of Ancient Systems of Knowledge (LOGOS), page 27
See also The St Andrews Institute of Mediaeval Studies (SAIMS), page 30

Film Studies
Centre for Film Studies (CFS)
Professor D Iordanova (di1)
Our research unit, which includes colleagues from across the University, was established in 2005 to encourage interdisciplinary research. It has an international advisory board, which comprises leading academics and industry professionals. Today, the Centre is one of the most vibrant research units in the discipline not only in the UK but also internationally. It is the home of a thriving community of researchers and doctoral students who work collaboratively on a variety of projects researching transnational film culture and global heritage. We organise screenings, filmmakers’ visits, as well as fortnightly research seminars where guest speakers present their current research. Members of our Centre are involved in collaborations with academics in the UK, USA, Australia, Canada, France, Austria, Turkey, Spain, Italy, and other countries. Current research projects, funded by the AHRC, the Leverhulme Trust, the British Academy, and the Carnegie Trust, include work on the dynamics of world cinema, Balkan cinema, Deleuze and transnational cinema, Scottish cinema, film industry, and film festivals.
www.st-andrews.ac.uk/filmstudies

Geography, Geosciences and Sustainable Development
The Centre for Housing Research (CHR)
Professor D Maclennan (dm103)
This is the largest housing research centre in Scotland and one of the leading centres in the UK for housing research and knowledge exchange activities. Our strengths are in the fields of analysing housing systems across all tenures assessing the impact of housing outcomes on wider systems, such as the economy and environment, as well as understanding the implications for housing affordability, homelessness and housing wealth. Our interests in the different spatial scales of operation, from local to global, as well as connections to other social and political systems, means we have considerable strength and growing interest in connecting housing to wider social science interests in demographic change, sustainable development, resilience, wellbeing, inequality and justice. The academic expertise in CHR spans a series of existing and developing themes around:

i) Housing markets and systems analysis
ii) Housing wealth and intergenerational justice
iii) Community and environmental resilience
iv) Diversity and outcomes

See also Centre for Mediaeval and Early Modern Law and Literature (CMEMLL)
www.st-andrews.ac.uk/cme
See also The St Andrews Institute of Mediaeval Studies (SAIMS)
The Centre for Population Change (CPC)
Professor E Graham (efg)

The Centre is a collaboration between a consortium of Scottish universities and the University of Southampton. Our expertise is drawn from a number of academic disciplines and from the National Records of Scotland and the Office for National Statistics. We have recently won substantial ESRC funding to continue our research for a further five years from January 2014. The new research programme examines population change in the UK, Europe and internationally. It addresses five main themes:

i) Fertility and family change.
ii) Increasing longevity and the changing life course.
iii) New mobilities and migration.
iv) Understanding intergenerational relations and exchange.
v) Integrated demographic estimation and forecasting.

The Centre’s mission is to conduct academic research on population change that is not only internationally leading, but also timely and relevant to the concerns of policy makers and other non-academic groups.

www.cpc.ac.uk

See also Centre for Research into Ecological and Environmental Modelling (CREEEM), page 31

The Longitudinal Studies Centre – Scotland (LSCS)
Dr C J L Dibben (cjld)

This is the first research centre in Scotland specifically designed to undertake and support longitudinal population analysis. We host the Scottish Longitudinal Study (SLS), a database containing a 5.3 per cent sample of the Scottish population. The strategic socio-economic research undertaken by this Centre is directly relevant to the Scottish economy, academic endeavour and the nation’s health. A number of research fellows and PhD students are working in the LSCS.

www.lscs.ac.uk

The Centre for Geoinformatics (CGI)
Professor A S Fotheringham

The Centre acts as a focus for research into geoinformatics across both the School of Geography & Geosciences and the University. Geoinformatics or Geographic Information Science (GIScience) involves the collection, processing, analysis and display of large spatial data sets. This includes any kind of spatial data, i.e. data with specific geographic location, or, if time is considered as well, spatio-temporal data. The area is becoming more and more relevant in today’s world, where large spatial data sets are being collected by individuals in real-time using increasingly available and ubiquitous spatial sensors such as GPS devices on mobile phones, as well as agencies and companies, e.g. census data collected by national statistical agencies or satellite imagery collected by national space agencies or remote sensing companies. Application areas are varied, from health, housing, environment, physical systems and movement ecology to urban analysis and digital humanities.

www.st-andrews.ac.uk/geoinformatics

See also the Social Dimensions of Health Institute (SDHI), page 31

See also Scottish Oceans Institute (SOI), page 26

St Andrews Sustainability Institute (SASI)
Professor J Bebbington

Our interdisciplinary research institute draws on expertise from across the whole range of academic disciplines in the University and the Estates Energy and Environment team to achieve our mission: “To facilitate research, teaching, knowledge transfer and debate in order to enable the transformational change required to integrate sustainable thinking and actions into the foundations of everyday life.” Researchers are encouraged to collaborate across the artificial academic subject boundaries to work on the ‘big picture’ of sustainability. We have developed links with policy and public bodies and private sector organisations, providing consultancy, training and advice. We also host a series of workshops and seminars. SASI also acts as a source of advice to the University as it seeks to align its own operations with the principles of sustainable development.

www.st-andrews.ac.uk/sasi

The Centre for Global Constitutionalism (CGC)
Professor A Lang (als1)

The Centre provides an institutional home for the exploration of constitutionalism at the national, regional, and global levels. Our programmes, projects, and people are oriented toward the clarification and consolidation of constitutionalism as a political project. It is not designed to promote a particular global order or advance a world government; rather we seek to locate basic constitutional principles such as the rule of law, institutional checks and balances, judicial review, and human rights in the international system. We see constitutionalism as a political concept that arose historically and has developed in a range of contexts, both historical and modern. We seek to bring together scholars from a variety of disciplines – politics, IR, law, history, philosophy, and sociology just to name a few – with interests in the intersection of law and politics at the national, regional and global levels.

www.st-andrews.ac.uk/intrel/cgc

History & International Relations

Centre for French History and Culture
Dr S Tyre (st29)

Our Centre was founded in 2005 to enhance and expand the University’s existing strengths in French history and the study of French historical culture. It provides an intellectual and social focus for staff and graduate students working in any field and on any period related to the history of France and the francophone world, and offers specialist pathways in French history for postgraduate students. We run a biannual seminar/workshop for invited outside speakers, and host and sponsor national and international conferences. Since 2010 we have been publishing a unique series of midigraphs entitled St Andrews Studies in French History and Culture. These are monographs or collections of essays of approximately 25-50,000 words (60-150 pages) published both in paperback and electronically as downloadable open access e-books. We also enjoy links to other research centres in France, other European countries and North America.

www.st-andrews.ac.uk/history/frenchcentre

The Centre for Peace and Conflict Studies (CPCS)
Dr H Cameron (hc28)

Our Centre promotes interdisciplinary research and teaching in a collegial environment, analysing and investigating processes of conflict and conflict resolution in the construction of long term peace. We develop academic knowledge of peace and conflict grounded in the experiences of people, places and history. Dialogue is facilitated between individuals, groups or communities who are concerned with conditions of positive peace, with reference to interpersonal relationships, community relations, within organisations and nations, or relative to international relations. Our research is conducted across a range of geographic spaces that includes Sub-Saharan Africa, Central and East Europe, Central Asia, China and Latin America. We analyse the complex issues facing the global milieu of peace and conflict using a variety of conflict resolution, social justice, and peace studies tools, processes, and methods.

www.st-andrews.ac.uk/intrel/cpcs

The Centre for GeoInformatics (CGI)
Professor A S Fotheringham

The Centre acts as a focus for research into geoinformatics across both the School of Geography & Geosciences and the University. Geoinformatics or Geographic Information Science (GIScience) involves the collection, processing, analysis and display of large spatial data sets. This includes any kind of spatial data, i.e. data with specific geographic location, or, if time is considered as well, spatio-temporal data. The area is becoming more and more relevant in today’s world, where large spatial data sets are being collected by individuals in real-time using increasingly available and ubiquitous spatial sensors such as GPS devices on mobile phones, as well as agencies and companies, e.g. census data collected by national statistical agencies or satellite imagery collected by national space agencies or remote sensing companies. Application areas are varied, from health, housing, environment, physical systems and movement ecology to urban analysis and digital humanities.

www.st-andrews.ac.uk/geoinformatics

See also the Social Dimensions of Health Institute (SDHI), page 31

See also Scottish Oceans Institute (SOI), page 26

St Andrews Sustainability Institute (SASI)
Professor J Bebbington

Our interdisciplinary research institute draws on expertise from across the whole range of academic disciplines in the University and the Estates Energy and Environment team to achieve our mission: “To facilitate research, teaching, knowledge transfer and debate in order to enable the transformational change required to integrate sustainable thinking and actions into the foundations of everyday life.” Researchers are encouraged to collaborate across the artificial academic subject boundaries to work on the ‘big picture’ of sustainability. We have developed links with policy and public bodies and private sector organisations, providing consultancy, training and advice. We also host a series of workshops and seminars. SASI also acts as a source of advice to the University as it seeks to align its own operations with the principles of sustainable development.

www.st-andrews.ac.uk/sasi

History & International Relations

Centre for French History and Culture
Dr S Tyre (st29)

Our Centre was founded in 2005 to enhance and expand the University’s existing strengths in French history and the study of French historical culture. It provides an intellectual and social focus for staff and graduate students working in any field and on any period related to the history of France and the francophone world, and offers specialist pathways in French history for postgraduate students. We run a biannual seminar/workshop for invited outside speakers, and host and sponsor national and international conferences. Since 2010 we have been publishing a unique series of midigraphs entitled St Andrews Studies in French History and Culture. These are monographs or collections of essays of approximately 25-50,000 words (60-150 pages) published both in paperback and electronically as downloadable open access e-books. We also enjoy links to other research centres in France, other European countries and North America.

www.st-andrews.ac.uk/history/frenchcentre

The Centre for Global Constitutionalism (CGC)
Professor A Lang (als1)

The Centre provides an institutional home for the exploration of constitutionalism at the national, regional, and global levels. Our programmes, projects, and people are oriented toward the clarification and consolidation of constitutionalism as a political project. It is not designed to promote a particular global order or advance a world government; rather we seek to locate basic constitutional principles such as the rule of law, institutional checks and balances, judicial review, and human rights in the international system. We see constitutionalism as a political concept that arose historically and has developed in a range of contexts, both historical and modern. We seek to bring together scholars from a variety of disciplines – politics, IR, law, history, philosophy, and sociology just to name a few – with interests in the intersection of law and politics at the national, regional and global levels.

www.st-andrews.ac.uk/intrel/cgc
The Centre for Russian, Soviet, Central and European Studies (CRSCEES)
Dr V Donovan (vdd2)
The Centre aims to promote Russian, post-Soviet and European research and teaching by bringing together members of staff from various departments across the university who share interests in this field. CRSCEES concentrates its efforts on:

- offering a package of taught postgraduate programmes leading to higher degrees in Central and Eastern European Studies (Graduate Diploma, MLitt and MPhil)
- supervising PhD candidates working in this field
- organising an annual conference and sponsoring visiting speakers

The taught postgraduate programmes include modules at the Schools of Art History, International Relations, Modern History, and Russian. Recent conferences organised by CRSCEES include: Red Laboratories: Exchanges between Science and the Arts and Culture in Russia and Eastern Europe (2013); Orthodox Ecclesiology and Modernity (2012); The Class of 2011: Exchanges between Science and the Arts and Culture (2010); and Putin, People and Power (2008).

Institutes

The Handa Centre for the Study of Terrorism and Political Violence (HCSTPV)
Professor R L English (rle2)
This is one of the longest-established and most respected Centres for the study of terrorism and political violence in the world. Established in 1994, it has a long tradition of world-leading research into the subject, and our work has now been further strengthened by a major recent donation from Dr Haruhisa Handa, which will generously facilitate much more funded graduate study. Current specialisms include Israel-Palestine, al-Qaida, Irish political violence, terrorism and the internet, maritime terrorism, counter-terrorist strategies, victims' experience, and the explanation of varying levels of political violence between conflicts. Our scholars work with the world's leading publishers, and the visiting scholar programme also brings the world's leading academics in the field to speak to our students. There are wide opportunities (some of them fully funded) to study for Masters and PhD work at the Centre, with a large and internationally diverse body of graduate students.

Institute for Environmental History
Dr J F M Clark (jfc2)
Our Institute provides postgraduate teaching and supervision in environmental history. Current strengths for postgraduate supervision are the intellectual history of environment, history of science, history of waste, and the history of environmentalism. Past research has focused on woodland history, coastal archaeology, the history of pollution and waste, land use and cultural landscapes, nature conservation and countryside recreation, and species history. As part of its broader research culture, we have been a UK leader in coastal archaeology through the auspices of SCAPE (Scottish Coastal Archaeology and the Problem of Erosion) for a number of years. Archaeologists Tom Dawson and Joanna Hambly are the moving force behind this award-winning work.

Institute of Iranian Studies
Professor A M Ansari (aa51)
The Institute was formally launched in October 2006 by Seyyid Mohammad Khatami. The foundation of our Institute was made possible through a generous benefaction and the centre-piece of what will ultimately be a Persian language library of some 8,000 books. The collection, which will be housed in the Main Library, will be the largest resource of its kind in the United Kingdom, if not Western Europe, and will form the basis of research and teaching in all aspects of Iranian civilisation and culture at St Andrews. We offer a postgraduate teaching and supervision in Iranian history from late Antiquity to the present with ambitions to expand both the chronological range and depth of our provision.

Institute of Middle East, Central Asia and Caucasus Studies (MECACS)
Professor S N Cummings (snc)
We aim to stimulate interdisciplinary discourse, research and teaching in this geographic area by providing venues to bring together specialists and scholars in the field across the University’s diverse Schools and disciplines, especially in the partner Schools of International Relations and History. Also incorporating the Departments of Film Studies and Anthropology we host several lunchtime interdisciplinary seminars. Activities have been funded by the Heritage Lottery Fund, ESCRC, British Academy and Foreign and Commonwealth Office.

Institute of Scottish Historical Research
Dr K Stevenson (ks07)
Our Institute was founded in 2007 and has since become the world-leading centre for research into Scotland’s past. It draws together the excellence and expertise of nearly twenty historians of Scotland, including Professor TC Smout, the Historiographer Royal for Scotland. It provides an intellectual and social focus for staff and a thriving community of postgraduate and postdoctoral researchers working on all periods of Scottish history from the early Middle Ages to the present day. Numerous events are held throughout the year, attracting delegates and speakers from all over the world, including a fortnightly research seminar series, workshops and conferences with an emphasis on new discoveries and directions in historical enquiry. We have several major collaborative research projects and initiatives, many of which have funded postgraduate studentships.

Reformation Studies Institute
Dr B Heal (bmh6)
As a group of scholars working on the Reformation and related studies, we are fortunate to be located in St Andrews: the historic heart of Scotland’s Renaissance and Reformation. Here humanists and reformers acted out their parts in some of the great crises of early modern European intellectual history. John Knox spent much of his later life here, and Andrew Melville, his successor as the dominant Scottish ecclesiastical figure of his era, was head of the University. In the centuries since the Reformation St Andrews has cultivated a tradition of excellence in Reformation studies. The foundation of the Reformation Studies Institute in 1993 reflected the University’s commitment to enhancing St Andrews’ established reputation in this field. We offer a specialist MLitt programme, which allows students to develop their own interests working with one or more of the resident experts in the field. It provides a base for a lively community of PhD students, through our research seminars, workshops and conferences. We also host the St Andrews Studies in Reformation History, a monograph series published by Ashgate.

St Andrews Centre for Transnational History
Dr B Struck (bs50)
Over the past two decades transnational history has become a flourishing field in modern and late modern history. It analyses cross-border contacts, flows and entanglements that have impacted on societies and shaped modern nations. In the School of History a large group of historians share a strong interest in comparative and transnational history as well as finding new ways of locating European history within a wider context beyond the nation-state. Our research and teaching activities cover the time period from 1750 to the late-twentieth century and geographical areas including Germany, France, Great Britain, Italy, Poland, Russia, Iran, Northern Africa, North America and East and South Asia.

The St Andrews Institute of Mediaeval Studies (SAIMS)
Professor S Maclean (sm89)
Our institute brings together over 30 full-time academic staff of international standing and a number of research associates. We provide a caring and stimulating research environment to currently about 50 postgraduates. A regular stream of distinguished visiting scholars are invited and we organise conferences as well as a celebrated seminar series.

www.st-andrews.ac.uk/sims
Centre for Responsible Banking and Finance (CRBF)
Professor J O S Wilson (jsw7)
Our Centre carries out and publishes high quality research on responsible banking, finance and investment topics across a number of areas including: credit unions and microfinance; corporate governance; insider trading; carbon finance; risk measurement; responsible investment; and Islamic banking and finance. We organise seminars, workshops, conferences and practitioner events, host visiting fellows, and fund PhD studentships. We also collaborate with researchers from other parts of the University and throughout Europe and North America. Results of much of the research are published in the Centre for Responsible Banking and Finance Working Paper Series, and in monographs, academic and practitioner journals. Overall, our Centre acts as a focal point for academics and practitioners to exchange and discuss common issues and areas of interest in banking and finance. www.st-andrews.ac.uk/business/rbf

Centre for Social and Environmental Accounting Research (CSEAR)
Professor J K Bebbington (jkb10) and L Stevenson (ls)
The Centre is an international, membership-based network exploring the implications of and the possibilities for social, environmental and sustainability accounting and reporting. We convene academic conferences in St Andrews as well as supporting conferences around the world. We host visiting members, publish a quarterly newsletter, have a library of resources and we publish the Social and Environmental Accountability Journal. We also enable collaborations amongst our members in a variety of universities and research institutions. In all, we promote deliberation on the role of accounting in governing universities and research institutions. In all, we promote collaborations amongst our members in a variety of universities and research institutions. The Centre is an international, membership-based network exploring the implications of and the possibilities for social, environmental and sustainability accounting and reporting. We convene academic conferences in St Andrews as well as supporting conferences around the world. We host visiting members, publish a quarterly newsletter, have a library of resources and we publish the Social and Environmental Accountability Journal. We also enable collaborations amongst our members in a variety of universities and research institutions. In all, we promote deliberation on the role of accounting in governing universities and research institutions. In all, we promote collaborations amongst our members in a variety of universities and research institutions. Our activities are intimately connected to the ethics, sustainability and accountability theme in the School and there are a number of PhD students associated with CSEAR activities. www.st-andrews.ac.uk/~csearweb/index.html

Institute for Capitalising on Creativity (ICC)
Professor B Townley (bt11)
Drawing on the research strengths of the School of Management, the Royal Conservatoire of Scotland, Duncan of Jordanstone College of Art and Design (University of Dundee), and the Institute of Arts, Media & Computer Games (University of Abertay), our Institute conducts research into the distinctive characteristics of the creative industries and the challenges these pose. Our primary focus through 2014 is delivery of 17 PhD studentships, 2 Knowledge Transfer Partnerships and 25 Business Vouchers funded by a £1.5m Capacity Building Cluster grant from the ESRC. In each, we engage with public and private sector organisations to investigate challenges arising from the move to a knowledge economy. In addition, we are partnering two major research programmes through 2016 which address creative economy agendas: design-led innovation (www.designinaction.com), and the challenges of digital for intellectual property rights management. www.create.ac.uk

The Research Unit for Research Utilisation (RURU)
(jointly with University of Edinburgh)
Professor H T O Davies (hd) and Professor S Nutley (smn)
We investigate the use of social science research in public policy and service delivery settings. The core RURU team are based in the School of Management, but the unit benefits from collaboration with a range of research associates from across the UK.

Members of RURU have been involved in many projects aimed at understanding and improving research use. The lessons from these projects are captured in a wide range of academic and practitioner publications. PhD student projects have included investigations of the implementation of evidence-based practice in nursing, the use of evidence in criminal justice policy on sex offender notification, and the use of evidence in Scottish mental health policy.

RURU’s most comprehensive publication to date is Using Evidence (Nutley, Walter and Davies, 2007, Policy Press). This book draws together our understanding of how research gets used and how this can be encouraged and improved. It builds upon an earlier cross-sector review of evidence-based policy and practice in public services: What Works? (Davies, Nutley and Smith, 2000, Policy Press).

Social Dimensions of Health Institute (SDHI)
(jointly with University of Dundee)
Professor H T O Davies (hd)
Ours is a shared research institute between St Andrews and Dundee, which brings together academics from the clinical and the social sciences (alongside local service leaders and health care professionals) to explore the social dimensions of health, how these influence care-seeking, and the implications for service delivery. We are also interested in the social dynamics of health care delivery, including such aspects as service and role redesign and mechanisms for patient/user engagement. Our research is typically carried out in partnership with key policy or practice actors. Most funded projects, for example, have research end-users as co-applicants, as well as for each project to have some kind of supporting advisory arrangements that incorporate research end-users and service end-users. As well as supporting creative interdisciplinary grant-seeking, SDHI enhances the development of local research capacity and postgraduate training. www.sdihi.ac.uk

See also St Andrews Sustainability Institute (SASI), page 29

Mathematics & Statistics

Centre for Research into Ecological and Environmental Modelling (CREEM)
Professor S T Buckland (steve)
CREEM was formed in 1999 to bring together numerate ecologists and statisticians who were interested in biological problems. In 2001, we secured funding to refurbish the University’s Observatory to house Centre staff and provide infrastructure. We currently have around 20 academic and research staff and 8 research students. Ours is the largest group in the National Centre for Statistical Ecology, which spans eight university groups and several other institutions. Current research in CREEM includes projects on modelling the dynamics of animal populations, the design and analysis of surveys of wildlife abundance, spatially-explicit capture-recapture, acoustic survey methods, biodiversity monitoring, spatial modelling, and assessing the environmental impact of wind farms. www.creem.st-andrews.ac.uk

See Scottish Oceans Institute (SOI), page 26

Management

Centre for Responsible Banking and Finance (CRBF)
Professor J O S Wilson (jsw7)
Our Centre carries out and publishes high quality research on responsible banking, finance and investment topics across a number of areas including: credit unions and microfinance; corporate governance; insider trading; carbon finance; risk measurement; responsible investment; and Islamic banking and finance. We organise seminars, workshops, conferences and practitioner events, host visiting fellows, and fund PhD studentships. We also collaborate with researchers from other parts of the University and throughout Europe and North America. Results of much of the research are published in the Centre for Responsible Banking and Finance Working Paper Series, and in monographs, academic and practitioner journals. Overall, our Centre acts as a focal point for academics and practitioners to exchange and discuss common issues and areas of interest in banking and finance. www.st-andrews.ac.uk/~csearweb/index.html

Institute for Capitalising on Creativity (ICC)
Professor B Townley (bt11)
Drawing on the research strengths of the School of Management, the Royal Conservatoire of Scotland, Duncan of Jordanstone College of Art and Design (University of Dundee), and the Institute of Arts, Media & Computer Games (University of Abertay), our Institute conducts research into the distinctive characteristics of the creative industries and the challenges these pose. Our primary focus through 2014 is delivery of 17 PhD studentships, 2 Knowledge Transfer Partnerships and 25 Business Vouchers funded by a £1.5m Capacity Building Cluster grant from the ESRC. In each, we engage with public and private sector organisations to investigate challenges arising from the move to a knowledge economy. In addition, we are partnering two major research programmes through 2016 which address creative economy agendas: design-led innovation (www.designinaction.com), and the challenges of digital for intellectual property rights management. www.create.ac.uk

The Research Unit for Research Utilisation (RURU)
(jointly with University of Edinburgh)
Professor H T O Davies (hd) and Professor S Nutley (smn)
We investigate the use of social science research in public policy and service delivery settings. The core RURU team are based in the School of Management, but the unit benefits from collaboration with a range of research associates from across the UK.

Members of RURU have been involved in many projects aimed at understanding and improving research use. The lessons from these projects are captured in a wide range of academic and practitioner publications. PhD student projects have included investigations of the implementation of evidence-based practice in nursing, the use of evidence in criminal justice policy on sex offender notification, and the use of evidence in Scottish mental health policy.

RURU’s most comprehensive publication to date is Using Evidence (Nutley, Walter and Davies, 2007, Policy Press). This book draws together our understanding of how research gets used and how this can be encouraged and improved. It builds upon an earlier cross-sector review of evidence-based policy and practice in public services: What Works? (Davies, Nutley and Smith, 2000, Policy Press).

Social Dimensions of Health Institute (SDHI)
(jointly with University of Dundee)
Professor H T O Davies (hd)
Ours is a shared research institute between St Andrews and Dundee, which brings together academics from the clinical and the social sciences (alongside local service leaders and health care professionals) to explore the social dimensions of health, how these influence care-seeking, and the implications for service delivery. We are also interested in the social dynamics of health care delivery, including such aspects as service and role redesign and mechanisms for patient/user engagement. Our research is typically carried out in partnership with key policy or practice actors. Most funded projects, for example, have research end-users as co-applicants, as well as for each project to have some kind of supporting advisory arrangements that incorporate research end-users and service end-users. As well as supporting creative interdisciplinary grant-seeking, SDHI enhances the development of local research capacity and postgraduate training. www.sdihi.ac.uk

See also St Andrews Sustainability Institute (SASI), page 29
See also Centre for French History and Culture, page 29
See also the Centre for Russian, Soviet, Central and East European Studies (CRSCEES), page 30

Institute for Contemporary and Comparative Literature (ICCL)
Professor M-A Hutton (mh80)
Working at the cutting edge of contemporary and comparative literature, we bring together over 40 researchers working in 7 disciplines (Arabic, French, German, Italian, Persian, Russian, Spanish) as well as colleagues from the School of English. The Institute is run by and based in the School of Modern Languages, and we host visiting scholars, writers in residence, seminar series, colloquia, workshops and conferences. Professor Hutton is general editor of a new series on contemporary comparative literatures published by Palgrave MacMillan. Masters of a new series on contemporary comparative literatures programmes are available.

www.st-andrews.ac.uk/modlangs/research/centresandinstitutes/instituteforcomparativeliterature/

Institute of European Cultural Identity Studies (IECIS)
Professor G F San Román (gfsr)
This is a centre for the study of the collective identities expressed through the national cultures of continental Europe and culture zones associated with it, particularly Latin America and Francophone Canada, Africa and the Antilles, as well as British culture. Research into cultural identity involves the investigation of the diverse forms of representation (traditions, myths, literary texts, political institutions) by which national culture groups remember, explore, criticise and renew their sense of distinctiveness. We are committed to:

• Providing a vibrant research environment through postgraduate programmes: MLitt in Cultural Identity Studies, as a partner in the multi-centre Erasmus Mundus Masters Crossways in Cultural Narratives, and PhD study.

• Engaging in productive dialogue with other disciplines through joint seminars, conferences and publications, some of which have come out in an academic series launched in 2006, Cultural Identity Studies (Peter Lang).

www.st-andrews.ac.uk/modlangs/research/centresandinstitutes/iecis

See also The St Andrews Institute of Mediaeval Studies, page 30

Modern Languages

Philosophy & Anthropology

Centre for Amerindian, Latin American and Caribbean Studies (CAS)
Dr H O B Wardle (hobw)
Our research centre, which was founded in 1969, promotes and provides a focus for interdisciplinary research and postgraduate teaching on the anthropology, history and languages of the peoples of the Americas. We host visiting scholars and organise workshops, seminars and conferences, such as Andes-Amazon: Comparisons, Connections, Frontiers (2006) and The Riddle of Place in the Caribbean and Latin America (2010). We maintain a network of links with similar centres in Latin America, Europe and the US. We have a publications series and teach an MRes with Amerindian Studies.

www.st-andrews.ac.uk/anthropology/centres/cas

Centre for Cosmopolitan Studies (CCS)
Professor N J Rapport (nj2)
We explore the implications and the possibilities of cosmopolitanism, understood as a claim that humanity is a singular phenomenon which yet manifests itself in individual difference. Cosmopolitanism is the study of our human sameness and our individual difference; how this relationship manifests itself in particular lives; how the relationship can be placed on a moral footing universally in social arrangements that are open and free society. We convene seminars and conferences, host visiting fellows, fund studentships and publish the results of our research. We also collaborate with other researchers, projects and research institutions. In all, the Centre promotes deliberation on a set of issues – human capacities, individual identities, human rights, individual consciousness, human science, individual expressiveness, human movement, individual futures, human inclusiveness, individual sovereignty – fundamental for a knowledge and understanding of the individual membership of social and cultural milieu in the twenty-first century.

www.st-andrews.ac.uk/~centrecs

Centre for Ethics, Philosophy and Public Affairs (CEPPA)
Professor J J Haldane (jjh1)
Founded in February 1984 by decisions of the Faculty of Arts, the Senate and the University Court, our Centre is in its fourth decade of operation. It is the oldest university centre or institute for philosophy, ethics and policy in the United Kingdom and has served as a model for similar institutes elsewhere in the UK and internationally. We maintain a programme of academic visits, fellowships, lectures, seminars and conferences, with occasional ongoing research projects. We also host a major publication series, St Andrews Studies in Philosophy and Public Affairs, and provide a forum for public discussion both within and outwith the University.

www.st-andrews.ac.uk/ceppa

Centre for Pacific Studies
Dr T Crook (tc23)
Our Centre promotes research in the wider region with a focus on the Pacific islands. The peoples and cultures of the Pacific and Melanesia regions have had a truly remarkable impact on the history of social anthropology from its origins, an impact that continues to the present day. Our emphasis is on a broadly conceived anthropological approach: we are interested in all things associated with the Pacific area – the region’s wonderful historical variation, its religions, languages, the politics of its states, cities, towns and villages, literature, art, public and domestic ritual, kinship and household organisation and law. We especially welcome applications to conduct doctoral and postdoctoral research. We are also a partner in the EU funded European Consortium for Pacific Studies project which, with four European and two Pacific partners, is developing a social science research network and research-policy interfaces.

www.st-andrews.ac.uk/anthropology/centres/cps

See also Centre for Russian, Soviet, Central and East European Studies (CRSCEES), page 10

Philosophical Research Centre for Logic, Language, Metaphysics and Epistemology (Arché)
Professor H Cappelen (hwc1)
Activities at Arché are currently centred on these projects:

• Propositions / Indexicality in Language and Thought/Time and Tense

• Models, Modality and Meaning

• Evidence, Justification and Knowledge

• Philosophical Methodology

In addition, we are participating in the FP7 Marie Curie Initial Training Network PETA, Perceptual Thoughts and Facts. www.st-andrews.ac.uk/~arche

Return to Contents
Photonics Innovation Centre (PIC)
Dr C F Rae (cfr)
In a knowledge-driven economy it is desirable that strong industry-academic links are forged and an infrastructure established that promotes the successful commercial exploitation of world-leading research through innovative development. Our Centre aims to promote the further development of successful research and consequently nurture the deployment of new technologies. The availability of reliable and optimised versions of new devices is often a prerequisite for their successful commercial exploitation in emergent applications, be they in medicine, scientific, industrial or defence sectors. Through in-house and collaborative research and development activities with industrial and other partners, this facility enables breadboard to advanced prototype devices, based on the world-leading research of the Photonics Group in St Andrews, to be realised. Photonic technologies across a range of themes are addressed; including advanced solid-state lasers, nonlinear optics, and spectroscopic imaging and sensing systems.

Organic Semiconductor Centre (OSC)
Professor I D W Samuel (idws)
The Centre brings together physicists and chemists at the University to undertake collaborative research on remarkable plastic-like materials that can conduct electricity and emit light. Organic materials are an important new class of semiconductors which combine the virtues of plastics, which can be easily shaped, with those of semiconductors which are the basis of all microelectronics. The Centre provides world-leading facilities for the study of the science of these materials and devices made from them. We make organic solar cells, light-emitting diodes and lasers. We then explore their use for applications such as skin cancer treatment, explosive sensing, and visible light communications.

Centre for Social Learning & Cognitive Evolution
Professor A Whiten (aw2)
Our Centre brings together a unique group of researchers in the Schools of Biology and Psychology & Neuroscience who share a distinctive set of common interests in the study of social learning, culture and cognitive evolution. Since the Centre’s origin in 2003 the core, full-time academic staff has grown from eight to fourteen. A substantial number of independently funded research fellows, research staff and a sizeable postgraduate community, now swell the group to over 100 individuals. Our research combines theoretical, observational and experimental studies of both wild and captive populations of animals and comparative research is encouraged. A wide range of animal groups is studied, ranging from fish to birds and mammals, including human and non-human primates. We maintain strong collaborative research links with other universities, research institutes and laboratories in the UK and abroad.

Institute of Behavioural and Neural Sciences (IBANS)
Professor K Sillar (kts1) and Dr D Shuker (dms14)
Our Institute was created in January 2007 to bring together those researchers interested in the study of behaviour, cognition and neuroscience. It consists of 50 academic staff in the Schools of Biology, Psychology & Neuroscience, Medicine and Chemistry with interests ranging from the creation of novel chemicals that act on the brain, through neural networks controlling particular behaviour patterns, to the study of animal behaviour, higher order brain processing, cognition and behavioural ecology. Opportunities for study here include postgraduate programmes tailored to appeal to a wide range of students interested in behaviour and the brain.
Art History

- Our School is one of the largest of its kind in the United Kingdom with an academic staff of 17.
- Between 30-40 postgraduate students are admitted each year.
- Our School enjoys an international reputation for its teaching and research.
- The School has a friendly face and is responsive to the needs of individual students.
- Our School is distinguished by its specialisms in History of Photography and the Museums Galleries and Collections Institute (MGCI). We are also part of the University’s St Andrews Scottish Studies Centre and the Institute of Mediaeval Studies.

Teaching and research interests of the School extend from the ancient to the modern periods. We particularly concentrate on the art of late mediaeval and renaissance Italy; nineteenth- and twentieth-century art in Britain, France, Russia and Eastern Europe; the decorative arts, architectural and furniture history, the history of photography, and museum and gallery studies.

Contact

E: pgarhist@st-andrews.ac.uk
T: +44 (0)1334 462399
www.st-andrews.ac.uk/prospective/pg

The University’s three fifteenth-century maces
Research community

The School of Art History supports a large, active and diverse postgraduate community. Postgraduate students publish the Postgraduate Journal of Art History and Museum Studies (www.st-andrews.ac.uk/arhistory/current/journals), an annual journal containing articles on a wide range of topics by students at St Andrews and other universities. The School also organises postgraduate research seminars and occasional symposia. Each year we invite a number of artists and scholars to give lectures. The School extends a warm welcome to overseas students, who contribute to the diversity of the art historical community at St Andrews, and who can take advantage of the wide choice of module options and degree opportunities.

The School takes pride in offering a relaxed but stimulating environment in which staff and students contribute equally to the creation of a collegial and friendly atmosphere. Several members of staff have taught in Europe and in North America and have experience of international teaching practice.

Facilities

Teaching and research in the School of Art History are supported by extensive library holdings, a major Visual Resources Collection containing approximately 150,000 images, and computing facilities. Within the School, rooms are designated for postgraduate study and computers are made available exclusively for postgraduate use. We also have a microfiche copy of the Conway and Witt photographic archives, comprising some two million images of works of art. The University of St Andrews itself holds a variety of important specialised collections on which students may draw in the course of their research. The superb collections and libraries of Edinburgh and Glasgow are also within easy reach of St Andrews.

Supervision and support

The PhD thesis is a lengthy and demanding research project which asks for a substantial degree of originality and independent critical thinking. During the process of researching and writing the doctoral thesis, as a candidate in the School of Art History, you are guided from start to finish by a primary supervisor with authoritative research experience in their chosen field. All students also have a second supervisor with whom you can discuss academic or any other issues in your progress.

PhD students are full members of the School, with designated workspace and an expectation that they will be active participants in the intellectual and collegiate life of a large and lively community centred upon Art History, History of Photography and Museum and Gallery Studies.

Academic life includes a regular research seminar, the editorial management of the postgraduate journal, reading groups, workshops and conferences, teaching training, exhibition organisation, and international research and networking.

Research Institute

- Museum Galleries and Collections Institute (MGCI)

For full details see page 26.
Research areas

Dr N Adamson (na14@st-andrews.ac.uk) – Late nineteenth- and twentieth-century art in France; Surrealism and the avant garde; Abstract art; Post-1945 art in France and Europe; transnational modernisms; History of photography, especially twentieth-century modernism and the photo book.

A Carruthers (vac@st-andrews.ac.uk) – Decorative arts and design; Arts and Crafts designers of the late nineteenth and early twentieth centuries; Architecture and the decorative arts; The Arts and Crafts Movement in Scotland.

Professor B Cassidy (bfc1@st-andrews.ac.uk) (Head of School) – Late mediaeval Italian painting and sculpture; Iconography; The reception of the Middle Ages and relations between Britain and Italy in the eighteenth century.

Professor R Fawcett (rf41@st-andrews.ac.uk) – Mediaeval church architecture in western Europe; Scottish architecture; The architecture of castles in the British Isles.

Dr L Gartlan (lg321@st-andrews.ac.uk) – Specialises in early photography; The camera’s role in colonial-period visual culture; Orientalist visual culture; Art in the Habsburg Empire; Editor of History of Photography.

Dr L Goddard (ljg21@st-andrews.ac.uk) – Relations between art and literature in the nineteenth and twentieth centuries, focusing on France; Artists’ writings; Art criticism; Visual and literary cultures of colonialism and travel.

A Gunn (avg1@st-andrews.ac.uk) – Research and scholarship in museums; Collections research; Collections management; Ethics; eighteenth-twentieth century British art, in particular print making.

Dr J Howard (jch2@st-andrews.ac.uk) – Central and east European art, architecture and design 1600-present; Spaces, materialities and images of schooling; Social, socialist and public art; Questioning Realism; Art Nouveau; National Romanticism; Orientalism and Primitivism.

Dr J Luxford (jml5@st-andrews.ac.uk) – Later mediaeval British and continental art and architecture; History and culture of the mediaeval monastic orders; Northern European Gothic art and architecture; Northern Baroque art; The historiography of mediaeval art history.

Dr L Moretti (lm93@st-andrews.ac.uk) – Italian Renaissance Art and Architecture; The relationship between architectural design and musical performance in Renaissance Italy.

Dr T Normand (tan@st-andrews.ac.uk) – British art and photography of the nineteenth and twentieth centuries; Academies, Academicians and institutions of art.

Dr A Rider (ajr1@st-andrews.ac.uk) – Histories of sculpture, from 1950 to the present; Experimental art from the 1960s and 1970s in North America and Europe; Histories of new media; Art and ecology; Art and activism; Changing conceptions of the artist.

Dr K Rudy (kmr7@st-andrews.ac.uk) – Late mediaeval images from Northern Europe and their functions; Pilgrimage, indulgences, the physical handling of images.

Dr E Van Kessel (ejmvk@st-andrews.ac.uk) – Italian Renaissance art; Painting in Venice; Early modern art in relation to the viewer, art and ritual; Portraiture; Collecting and displaying art around 1800, in Germany, France and Italy.

Dr U Weiss (uew@st-andrews.ac.uk) – Museum and Gallery studies (focusing on learning and audiences); The ‘long eighteenth century’: sculpture and interior decoration, court culture and numismatics; Hanoverian political iconography.

Careers

A doctoral degree in Art History, History of Photography or Museum and Gallery Studies provides an excellent foundation in a career in the art or museum world. Recent graduates have gone on to work as curators, university academics and postdoctoral researchers, as well as in auction houses, journalism, museum education and art consultancy.

Please see page 24 for details of the University’s Careers Centre.

Woman of the North Sea by John Bellany.
From the Boswell Collection, University of St Andrews.
The School of Biology at St Andrews is one of the largest in the UK, with 65 academic and related staff and 89 postdoctoral researchers.

We admit about 25 PhD students each year.

Our research is organised into three major interdisciplinary centres: the Scottish Oceans Institute (SOI), Biomedical Sciences Research Complex (BSRC) and Centre for Biological Diversity (CBD). Together these centres encompass the full spectrum of research in biological sciences, spanning investigations on the properties and behaviour of individual molecules to planetary environmental dynamics.

Research in Biological Sciences is underpinned by world-class research-led teaching and wider impacts on policy, public engagement and the economy, thereby ensuring a vibrant and sustainable research culture.

---

**Research community**

PhD students are embedded within a research group and will often be actively involved in weekly group meetings: sharing ideas and problems with staff, postdocs and students with similar research interests. To encourage a broader School-wide research community, we have BioNet – a social and scientific association run for and by PhD students within the School; an annual two-day School-wide PhD research forum; and other training, social and scientific events throughout the year.

**Facilities**

The Scottish Oceans Institute is housed on the shoreline in St Andrews looking out to the North Sea. We are ideally positioned 15 minutes’ drive away from both grey and common seal colonies and ten minutes by boat from waters where bottlenose dolphins regularly feed each summer. For open seas work our range of small boats have direct access to the sea via an adjacent slipway. The largest seal experimental facility in Europe was completed in 1998 comprising a main 40 metre pool and ancillary pools for behavioural and physiological studies. Our entire building has been recently refurbished and well-equipped laboratories for molecular, physiological, behavioural and ecological studies.

The Centre for Biological Diversity has excellent facilities for animal housing and behavioural and physiological study with facilities to keep plants, small mammals, birds, insects and fish. For larger animal work, only an hour’s drive away is Edinburgh Zoo's Living Links: a field station and research centre for the study of primates. For fieldwork we have access to a very wide variety of habitats within 45 minutes drive including coastal habitats, estuaries, freshwater rivers and lochs, mixed farmland, managed and ancient woodlands, and mountain and upland habitats. For larger scale experimental work we have established links with botanic gardens both in St Andrews and Edinburgh and with the James Hutton Institute (only 20 minutes’ drive away and offering research farms and extensive greenhouse facilities).

The Biomedical Sciences Research Complex occupies modern, purpose built laboratory space adjacent to the Schools of Medicine and Physics & Astronomy and physically linked to the School of Chemistry. The ethos of the BSRC is to break down barriers between scientific disciplines and conduct world-class research on the broad theme of infection and immunity. Large multi-group laboratories are focused on structural biology, molecular microbiology, virology, chemical biology and molecular medicine. In addition there are state-of-the-art facilities for mass spectrometry, X-ray crystallography including crystallisation robotics, EPR, NMR and imaging. Two new high containment level laboratories have been built and equipped, allowing research on pathogenic viruses, bacteria and parasites.

---

**Contact**

E: pgbiology@st-andrews.ac.uk

T: +44 (0)1334 463501

www.st-andrews.ac.uk/biology
Supervision and support

You are assigned to at least one supervisor (and commonly more), as well as a tutor and internal examiner; all of whom will be senior academics with considerable experience of academic research. The supervisor will be the main source of day-to-day guidance on your research; whereas the internal examiner and tutor will have roles in supporting and monitoring progress as well as providing a broader perspective on your research.

You will have formal meetings with them on at least three occasions in your first year, and at least annually thereafter to assess progress and offer guidance and support. You are very much encouraged to take advantage of a wide range of university-wide and more discipline-specific training opportunities, and to take an active part in lab-level discussion meetings and the active seminar and workshop series across the School of Biology. A thriving society of postgraduate students (BioNetwork) provides an opportunity for socialising with other students, learning more about the diversity of activities others are engaged in, and networking. BioNetwork holds an annual two-day conference, with talks from students and external speakers. The School also offers you ample opportunities to develop your scientific communication skills through involvement in a variety of outreach activities and teaching our undergraduate students.

PhD and MPhil research students at St Andrews have access to the GRADskills Programme (see page 14), an extensive and award-winning selection of workshops, networking events, activities and skills development programmes specifically for postgraduate students, that is delivered by the University’s Centre for Academic, Professional and Organisational Development (CAPOD). Further details of the GRADskills programme and how to access workshops and activities are available at:

www.st-andrews.ac.uk/capod/gradskillsprogramme/

The School of Biology supplements the University Postgraduate Skills Training Programme with a number of more specialised sessions. These include:

- Health and Safety in the Laboratory and in the Field
- Information Retrieval (Library and IT)
- Demonstrating Practicals
- Laboratory and Environmental Techniques
- Oral and Visual Presentational Skills
- Biology and the Media
- Ethical and other Sensitive Issues
- Student-Supervisor Interactions
- School of Biology Postgraduate Conference

Research centres and institutes

The School is organised into three interdisciplinary research centres with strong links to all the other science Schools.

- Biomedical Sciences Research Complex (BSRC)
- Centre for Biological Diversity (CBD)
- Scottish Oceans Institute (SOI)

For full details see page 26.
Biomedical Sciences

Occupies new, purpose-built, Wellcome Trust funded research laboratories on the North Haugh, adjacent to the School of Chemistry and Medical & Biological Sciences building. There are world-class structural biology laboratories and a focus on molecular and cellular aspects of infection and immunity.

Dr C Adamson – Molecular biology of retroviruses
Dr M Bischoff – Drosophila developmental biology.
Dr C Cotting – Mass spectrometry and proteomics.
Dr P Coote – Mode of action and application of novel antimicrobials.
Dr H Ferrera – Telomere biology.
Dr T Gloster – Structure and function of carbohydrate processing enzymes.
Professor F Gunn-Moore – Molecular development and survival of mammalian neurons.
Dr D Jackson – Molecular biology of influenza viruses and arenaviruses.
Dr S MacNeill – Chromosomal DNA replication and genome stability.
Dr C Penedo – Single molecule studies of nucleic acids and proteins.
Dr R Ramsay – Mitochondria and flavoproteins: function and regulation.
Professor R Randall – Viruses and innate immunity.
Professor M Ryan – Picornavirus replication and translational virology.
Dr U Schwartz-Linek – Structure and function of bacterial virulence determinants.
Dr J Sleeman – Structure and dynamics of the mammalian cell nucleus.
Dr T Smith – Molecular parasitology.
Professor G Taylor – Structural biology of infection and immunity.
Professor A Tobin – Plant molecular and cellular physiology.

Professor L Torrance – Molecular biology of plant virus-host-vector interactions.
Dr S Unkles – Molecular biology of membrane proteins.
Professor M White – DNA Repair and the CRISPR system.

Evolution, Ecology and Animal Behaviour
This group occupies newly refurbished research space in the Sir Harold Mitchell Building with close links to the School of Psychology. Research in the broad area of animal behaviour has been recognised as world leading.

Dr N Bailey – Evolutionary Biology: behaviour and speciation in insects.
Dr D Barker – Bioinformatics, evolutionary biology and genomics.
Dr W Cresswell – Behavioural ecology and conservation ecology of birds.
Dr M Dornelas – Macroecology and biodiversity patterns.
Professor O Gaggiotti – Ecology, population genetics, evolution and conservation biology.
Dr A Gardner – Darwinian adaption, theories and mechanisms.
Dr S Healy – Spatial memory, the brain and behaviour.
Professor K Laland – Social learning, cultural evolution and niche construction.
Professor A Magurran – Fish behaviour and evolution.
Professor T Meagher – Plant evolutionary biology.
Dr M Morrissey – Modelling evolutionary dynamics.
Dr A Ojanguren – Fish behavioural ecology.
Dr L Rendell – Evolution of social learning, communication systems and culture.

Professor M Ritchie – Behaviour, genetics and speciation.
Dr C Rutz – Evolution, ecology and social dynamics of animal tool use.
Professor G Ruxton – Sensory reactions between organisms.
Dr D Shuker – Insect behavioural ecology and evolution.
Dr C Smith – Fish reproductive biology and coevolution.
Dr A Smith – Complex biological networks.
Dr C Templeton – Vocal communication in birds.
Professor P Willmer – Social insect ecology and animal plant interactions.

Marine Biology
Situated in the Scottish Oceans Institute on the East Sands next to the North Sea, this interdisciplinary group has an international reputation for excellent marine science and conservation.

Professor A Brierley – Ecology and bioiology of zooplankton.
Dr L Boehme – Oceanography using animal-borne sensors.
Dr C Duck – Monitoring populations of harbour (= common) and grey seals in Scotland.
Dr D Ferrier – Evolutionary Developmental Biology.
Dr G Gillespie – Passive acoustic monitoring of marine mammals.
Dr A Hall – Environmental and physiological factors affecting marine mammal health and survival.
Professor P Hammond – Population dynamics, ecology and foraging behaviour of seals and cetaceans.

Dr C Harris – Landscape, population and spatial ecology.
Dr N Hazon – Osmoregulatory function in fish.
Dr S Heinrich – Marine mammal ecology.
Dr S Hooker – Ecology and behaviour of marine mammals.
Dr V Janik – Acoustic communication and behaviour in marine mammals.
Professor I Johnston – Muscle growth and adaptation in teleost fish.
Dr M Lorneean – Statistical and empirical modelling of movement, behaviour and populations.
Dr I Matthews – Fish and arthropod behaviour and biodiversity.
Dr P Miller – Acoustic communication and behavioural ecology.

Dr S Northridge – Interactions between people, fishing and the environment.
Professor D Paterson – Ecology and dynamics of coastal ecosystems.
Dr P Pomeroy – Behavioural ecology of marine mammals.
Dr S Smout – Predator life history and trophic interactions.
Dr I Somorjai – Regeneration biology.
Dr D Thompson – Foraging, diving behaviour and population dynamics of seals.
Professor C Todd – Marine ecology.
Professor P Tyack – Marine mammal communication and anthropogenic noise.
Many recent Biology PhD graduates have continued their academic careers working as postdoctoral researchers in laboratories worldwide, including research groups at the University of Cape Town (Africa), James Cook University (Australia), University of Helsinki (Finland), Mount Sinai School of Medicine (North America) and, of course, throughout the UK.

Others have found employment with organisations as varied as the Physiological Society, Royal Society of Chemistry, the Maritime and Coastguard Agency, the Royal Botanic Gardens Kew, the Wellcome Trust and the Havor Conservation Trust.

In addition to working in social behavioural, biomolecular, ecological, environmental, marine and virology research environments, Biology’s PhD graduates have secured posts in areas as diverse as Higher Education management, teaching, publishing and journalism, charitable sector, the food and biotechnology industries, the constabulary and the BBC.

Please see page 24 for details of the University’s Careers Centre.
• The School of Chemistry has about 46 full-time academic staff, 20 technical staff, a student population of 275 full-time equivalents, with nearly 160 postgraduates and 80 postdoctoral researchers.
• The University of St Andrews overall, and the School of Chemistry, in particular, have been placed in the top six UK universities, according to The Times newspaper over the past few years.
• In the latest Research Assessment Exercise, the School of Chemistry, as part of the joint Chemistry Research School of Edinburgh and St Andrews (EaStCHEM), achieved an outstanding result. With 75% of all world leading outputs in Scotland and 12% of world leading outputs in all of the UK, EaStCHEM is placed fourth for the quality of chemistry research in the UK and first in the ‘power rating’ (quality x volume).

Contact

E: chem-pg@st-andrews.ac.uk
T: +44 (0)1334 463800
www.st-andrews.ac.uk/chemistry/prospective/pg

Note: All prospective postgraduate students are urged to establish contact as soon as possible, especially where a position with a specific supervisor is sought. Competition for postgraduate places has been extremely buoyant of late and some positions are filled early in the academic year. The School typically has around 40 grants for fully-funded postgraduate studentships to start in any given year.
Our size promotes a friendly atmosphere with a cross-flow of ideas while providing the depth and breadth necessary to pursue major scientific programmes at an international level. Around 250 publications are produced per year and there are very strong connections with industry across a range of research areas. We are particularly proud of our strong interdisciplinary links with materials, physics and biomolecular sciences. These collaborations often take place through interdisciplinary research centres such as the Biomedical Sciences Research Complex, the Centre of Magnetic Resonance and the Organic Semiconductor Centre. There is an active student-based Chemical Society which hosts guest speakers and organises social events throughout the year.

Chemical research has a long and distinguished history at St Andrews. Chemistry has been taught as a subject since 1811 and the first Professorship in Chemistry was established in 1840. Nobel prize winners Sir Robert Robinson and Sir Norman Haworth carried out their most important research at St Andrews. The partners in the joint research school (EaStCHEM, i.e. Edinburgh and St Andrews Chemistry) are both leading Schools with complementary areas of expertise, publications and a similar level of research income (~£12m per year each over the past three years). Our aim is to compete with Chemistry centres of excellence anywhere in the world, not only with our research but also through our joint training activities. Students from St Andrews have equal access to all of the very specialised equipment and techniques being developed at Edinburgh (and vice versa for Edinburgh students).

The Purdie Building, the adjoining Biomolecular Sciences building and the new Biomedical Sciences Research complex offer excellent accommodation and facilities for teaching and research in some of the most modern and well-equipped laboratories in the UK. In addition, SASOL, the South African based fuels and chemicals giant, has its European laboratory in catalysis research here.

The School is equipped to support major facilities across the full spectrum of Chemistry, including NMR (both solution and solid-state), X-ray crystallography (single-crystal, powder and macromolecular), electron microscopy, catalyst evaluation, analytical chemistry, spectroscopy and surface science, together with all the standard chemical evaluation techniques. The School of Chemistry also houses its own library containing all of the major books required for postgraduate research work. Comprehensive online access to journals and national and international databases is available.

The School provides an outstanding and stimulating environment to pursue postgraduate research in one of the many exciting and topical areas of research outlined below. From the onset, you are guided in your studies by a supervisor and are usually embedded in a larger group with many points of contact. The infrastructure encompasses regular specialist seminars and colloquia by leading researchers, complemented by a large selection of taught modules open to the chemistry postgraduate cohort. Some of these modules are offered jointly for advanced (fifth-year) undergraduate students, some are specially designed for the postgraduate level. Training in transferable skills is available through the University’s GRADskills programme (see page 14).

Research areas

The key areas of research within the School can be classified as follows:

- Molecular Synthetic and Structural Chemistry
- Materials Chemistry
- Chemical Biology
- Surface Science
- Theoretical Chemical Physics

The School has several groups carrying out research in core areas of organic synthesis and molecular inorganic chemistry. This includes diversity orientated synthesis, natural product chemistry, asymmetric synthesis, inorganic and organic heterocycles, sulfur and phosphorus chemistry. We are a leading centre in the area of catalysis. Homogeneous work includes asymmetric catalysis, carbonylation and oxidation reaction, together with novel dendrimer systems. Heterogeneous catalysis includes synthesis and characterisation of zeolites and other solid-acid catalysts and sorbents, preparation and study of supported metal catalysts for automotive and fuel cell applications and also surface and interface studies.
Molecular Synthetic and Structural Chemistry includes many aspects of organic synthesis, molecular inorganic chemistry and catalysis. Structure characterisation involves mainly, but not exclusively, powder, single crystal and macromolecular X-ray diffraction, and covers areas of structure-property relations within a diverse range of chemical systems, together with studies in crystal engineering and supramolecular chemistry.

Dr R A Aitken (raa@st-andrews.ac.uk)
Synthetic Organic Chemistry
Keywords: Synthetic chemistry; Asymmetric synthesis; Flash vacuum pyrolysis; Heterocyclic chemistry; Organophosphorus chemistry; Main group chemistry.

Dr C S J Cazin (ccj11@st-andrews.ac.uk)
Organic Chemistry
Keywords: Development of catalysts and processes; Homogenous catalysis; Organometallic chemistry; Green chemistry; Catalyst design; Asymmetric catalysis.

Dr M L Clarke (mcl28@st-andrews.ac.uk)
Organic synthesis using Homogeneous Catalysts
Keywords: Asymmetric synthesis; Greener organic chemistry; Homogenous catalysis; Organometallic chemistry.

Professor D J Cole-Hamilton (djc@st-andrews.ac.uk)
Organometallic Chemistry; Homogenous Catalysis
Keywords: Homogenous catalysis; Carboxylation; Oxidation; Organometallic; Precursors; MOVD; Quantum dots.

Dr G Florence (gfl1@st-andrews.ac.uk)
Organic Synthesis
Keywords: Asymmetric synthesis; Synthesis of bioactive natural products and structural analogues; New methods and strategies for acyclic stereocontrol.

Professor P C J Kamer (pckj@st-andrews.ac.uk)
Homogenous Catalysis
Keywords: Homogenous catalysis; Organometallic chemistry; Ligand design; Transition metalloenzymes.

Dr P Kilian (pk7@st-andrews.ac.uk)
Main Group Chemistry
Keywords: Synthesis; Organ-element chemistry; Organophosphorus and organo-nitride chemistry; Low and hypercoordinated phosphorus chemistry.

Professor S P Nolan (sn17@st-andrews.ac.uk)
Organic Chemistry
Keywords: Organometallic catalysis; Homogeneous catalysis.

Professor D O'Hagan (do1@st-andrews.ac.uk)
Bio-organic and Natural Product Chemistry
Keywords: Organic synthesis; Biosynthesis; Organo-fluorine chemistry; Stable isotopes; Biotransformations; Chiral compounds; Enzyme chemistry.

Professor D Philp (D.Philp@st-andrews.ac.uk)
Physical Organic Chemistry; Bio-organic Chemistry
Keywords: Molecular recognition; Self-assembly; Replication processes; Computational methods; Reaction mechanisms; Crystal engineering.

Professor A M Z Slawin (ams2@st-andrews.ac.uk)
Crystallography
Keywords: Single crystal; X-ray; Sensors; H-bonding; Structure; Receptors.

Professor A Smith (ads10@st-andrews.ac.uk)
Organic Synthesis
Keywords: Asymmetric synthesis; Molecular enantio-recognition; Organocatalysis; Asymmetric carbene catalysis; Chiral auxiliary development.

Professor N J Westwood (njw3@st-andrews.ac.uk)
Organic and Biomolecular Synthesis
Keywords: Combinatorial synthesis; Bioactive molecules; Organic synthesis.

Professor J D Woolfson (jdw3@st-andrews.ac.uk)
Inorganic Synthesis
Keywords: Synthesis; Sulfur; Selenium; Phosphorus; Heterocycles; Metal extraction; Inorganic rings and cages.

In Materials Chemistry we have considerable strength in battery and fuel cell technology, solid state electrochemistry, microporous materials, conducting polymers and ceramic oxides for electronic, magnetic and optical applications. These fields are backed up by ongoing theoretical and modelling studies as well as developments in techniques such as X-ray diffraction and solid state NMR.

Professor S E Ashbrook (sema@st-andrews.ac.uk)
Solid State NMR
Keywords: Solid state NMR methodology; Inorganic materials; Minerals; Microporous solids; High-pressure phases; Ceramics; Ab-initio calculations.

Dr R T Baker (rta5@st-andrews.ac.uk)
Materials Science
Keywords: High resolution transmission electron microscopy; Fuel cells; Heterogeneous catalysts; Electro-active polymers.

Professor P G Bruce (pgb1@st-andrews.ac.uk)
Solid State Chemistry and Electrochemistry
Keywords: Unusual intercalation compounds; Synthesis and characterisation of new transition metal oxides as electrodes for lithium batteries.

Professor J T S Irvine (jtis@st-andrews.ac.uk)
Inorganic Solid State Chemistry; Electronic and Ionic Conducting Materials
Keywords: Solid state chemistry; Solid state electrochemistry; Superconductors; Fuel cells; Lithium batteries; Ceramics; Oxides.

Dr E R Kay (eke28@st-andrews.ac.uk)
Organic, Supramolecular and Nanomaterials Synthesis
Keywords: Self assembly; Hybrid nanocrystal-organic materials; Functional molecules; Artificial molecular machines.

Professor P Lightfoot (pl@st-andrews.ac.uk)
Solid State Chemistry and Crystallography
Keywords: Structural chemistry; X-ray and neutron diffraction; Microporous solids; Ferroelectrics; Functional materials.

Professor R E Morris (rem1@st-andrews.ac.uk)
The Synthesis of Inorganic-Organic Hybrid Materials
Keywords: Solid state chemistry; Microporous materials; Catalysts; Layered materials; Dendrimers; X-ray diffraction.

Dr F D Morrison (fjm40@st-andrews.ac.uk)
Materials Chemistry
Keywords: Electroceramics; Solid state chemistry; Functional oxides; Ferroelectrics; Thin films; Nano-structured oxides.

Dr W Nazarov (wn9@st-andrews.ac.uk)
Physical Chemistry
Keywords: Low density polymeric foams; Loaded foams for high energy laser fusion experiments.

Professor P A Wright (paw2@st-andrews.ac.uk)
Microporous and Mesoporous Solids; Heterogeneous Catalysis
Keywords: Microporous solids; Mesoporous solids; Coordination complex and Enzyme encapsulation; Catalysis; Solid acids; Redox catalysts.

Dr P Wormald (pww2@st-andrews.ac.uk)
Solid State NMR
Keywords: 19F Solid state NMR.

Professor W Zhou (wzhou@st-andrews.ac.uk)
Electron Microscopy
Keywords: Solid state structural chemistry; Material chemistry; Oxides; Mesoporous solids.
In Chemical Biology, we have particular strength in the areas of bioactive molecule synthesis, organofluorine chemistry, the elucidation of enzyme mechanism and protein interactions, protein structure determination, drug design and synthesis and combinatorial methods of organic synthesis.

Dr C H Botting (cb2@st-andrews.ac.uk)
*Mass Spectrometry*
Keywords: Protein Mass Spectrometry; Proteomics.

Dr T Gloster (tmg@st-andrews.ac.uk)
*Bio-organic Chemistry (see also School of Biology)*
Keywords: Enzyme chemistry; Carbohydrate degradation.

Dr R Goss (tjm@st-andrews.ac.uk)
*Bio-organic Chemistry*
Keywords: Natural product biosynthesis; Biocatalysis; Natural products of medicinal interest; Synthetic biology.

Professor J H Naismith (jhn@st-andrews.ac.uk)
*Structural Biology using Protein Crystallography*
Keywords: Molecular medicine; Protein structure; Protein crystallography; Mechanistic biochemistry; Drug design.

Dr T K Smith (tks1@st-andrews.ac.uk)
*Bio-organic Chemistry (see also School of Biology)*
Keywords: Enzyme chemistry; Phospholipid metabolism; Carbohydrate chemistry; Molecular parasitology; Drug development; Mass spectrometry.

Surface Science involves the characterisation of surfaces and interfaces at the atomic/molecular level and focuses on heterogeneous catalysis including enantioselective reactions, functionalisation and patterning of surfaces as well as two-dimensional nanostructures using concepts based on molecular self-assembly, supramolecular chemistry and electrochemistry.

Dr C J Baddeley (cjbb14@st-andrews.ac.uk)
*Surface Chemistry*
Keywords: Heterogeneous catalysis; Bimetallic surfaces; Chiral surfaces; Nanoparticle chemistry; Liquid-solid interface.

Professor M Buck (mb45@st-andrews.ac.uk)
*Physics and Chemistry at Interfaces*
Keywords: Molecular self-assembly at interfaces; Electrochemical nanotechnology; Non-linear optical spectroscopy; Scanning tunnelling microscopy.

Dr G Hähner (gh23@st-andrews.ac.uk)
*Physics and Chemistry at Interfaces*
Keywords: Functional ultrathin organic films; Self-assembled monolayers; Liquid/solid interface; Electronic structure; Photoelectron spectroscopy.

Professor N V Richardson (nvr@st-andrews.ac.uk)
*Surface Science*
Keywords: Molecular chemisorption processes; Surface characterisation; Scanning probe microscopies; Reflection absorption infra-red spectroscopy.

Dr R Schaub (rs51@st-andrews.ac.uk)
*Surface Science*
Keywords: Surface science; Heterogeneous catalysis; Scanning tunnelling microscopy; Mass spectrometry; Model systems; Metal-oxide surfaces.

Theoretical Chemical Physics covers a diversity of areas in computational chemistry including the development of methods and calculations of spectroscopic properties of materials, properties of biological molecules as well as catalytic reactions.

Dr B Bode (beb2@st-andrews.ac.uk)
*EPR Spectroscopy*
Keywords: Pulsed and Continuous Wave EPR Spectroscopy; Nanometre Distance Measurements; Hyperpolarisation Techniques.

Professor M Bühl (mb105@st-andrews.ac.uk)
*Computational Chemistry*
Keywords: Computational chemistry; Transition-metal complexes; Homogeneous catalysis; NMR properties; First-principles molecular dynamics simulations.

Dr J B O Mitchell (jbm@st-andrews.ac.uk)
*Computational Chemistry*
Keywords: Bioinorganic Science; Enzyme reactions; Chemoinformatics; Machine learning; Solubility; Computational toxicology.

Dr T van Mourik (tvvm22@st-andrews.ac.uk)
*Computational Chemistry*
Keywords: Ab initio quantum chemistry; Conformation of biological molecules.

Recent Chemistry PhD graduates have gone on to successful careers in the chemical industry with companies such as BP, Shell, Johnson Matthey, Siemens and the pharmaceutical industry e.g. GSK, Pfizer, AstraZeneca. Many also continue in academic life, in universities or research institutions in the UK, Europe, North America, Japan and others worldwide. Other career routes outwith a research environment include scientific publishing, patent law, forensic science, and IT and energy consultancy.

Please see page 24 for details of the University’s Careers Centre.
One of the largest Classics Schools in the UK with 17 permanent members of staff.

- Between 15 and 25 postgraduates (Masters and PhD) admitted each year, with a postgraduate community numbering over 30.
- A diverse and international student body.
- Friendly but academically challenging departmental ethos.
- The School of Classics is housed in the centre of the town, adjacent to the University Library, with views out to St Andrews Bay.
- Highly respected programme of weekly research seminars.
- Vibrant conference and workshop programme.
- Excellent collections in the University Library, as well as a dedicated class library in the School building.
- Beginners’ courses in Greek and Latin available for those who need to acquire a classical language as part of their training for subsequent research.
- Provision for individually tailored research skills training.
- Annual awards of postgraduate scholarships.
- Research funds provided to all postgraduates.
- Scholarships for strong applicants are offered each year.

### Research community

We have a strong tradition of integrating all postgraduates into a welcoming and lively environment where regular contact between staff and students is given high priority. An established programme of weekly research seminars allows students and staff to keep in touch with the latest ideas in the field with speakers from St Andrews, from other institutions in the UK, and from overseas. Postgraduate students also hold their own weekly seminars: these events offer valuable experience in presenting work to fellow students and to staff, providing opportunities to share work and exchange ideas. Postgraduates in second and subsequent years may be given the chance to participate in undergraduate teaching.

Our postgraduate community has come together from all over the world. Most choose to come here because of the international reputation of one or more of the academics whose profiles appear later in this entry. Others have been attracted by the School’s position at the cutting edge in a number of fields, including Greek and Roman drama, archaeology, historiography, literature and culture (both Greek and Roman) of the Roman Empire, ancient science and philosophy, late antique literature and history.

The School of Classics has an outstanding record in research, recognised both by the international profile of many of our staff and by a series of high rankings in the UK’s Research Assessment Exercise and university guides. In the last exercise (RAE 2008), 60% of our research was rated world-leading or internationally excellent. We offer expertise across the whole spectrum of Graeco-Roman history, archaeology, literature, languages, philosophy and culture, reflected both in the opportunities for supervised research as well as in the variety of taught postgraduate courses available: see the Postgraduate Taught Prospectus.

---

**Contact**

E: classpg@st-andrews.ac.uk

T: +44 (0)1334 462608

[www.st-andrews.ac.uk/classics](http://www.st-andrews.ac.uk/classics)

---
Facilities

We provide specific facilities for postgraduate study, including two dedicated postgraduate rooms and financial help with research expenses such as inter-library loans and travel to conferences. The School has its own Library, supplementing the University Library’s major holdings of books and periodicals; the University also provides access to a wide range of important electronic resources, which include JSTOR (an online archive of leading scholarly journals), Oxford Scholarship Online in Classical Studies, Thesaurus Linguae Graecae, L’Année philologique and many others.

Supervision and support

We provide a supportive but rigorous intellectual environment where postgraduates enjoy frequent and intensive tuition from a world-class team of classicists. We offer personal supervision in topics across the range of disciplines taught within the School. Current thesis topics include (among many others) the following: ancient meteorology, Stoic conceptions of beauty, Plato’s musical theory, the pre-Julianic orations of the orator Libanius, processes of acculturation among auxiliaries in the Roman army, the influence of Achaemenid Persia on fourth century and early Hellenistic tyranny, a comparative study of performers of epic in archaic Greek and Indian culture, social change in Roman Republican Spain. For more details of current and recently completed PhD theses see here: www.st-andrews.ac.uk/classics/research/pg-research

PhD students undertake at least three years of study and submit a thesis of not more than 80,000 words. The MPhil normally requires two years of study: a one-year taught course from the MLitt programme and a second year of research to produce a thesis of not more than 40,000 words. All research postgraduates have regular meetings with their primary supervisors and also, less frequently, with a second supervisor who is available to offer additional guidance. PhD students will normally have completed a research training Masters degree in a relevant subject, and will be expected to pursue a programme of largely independent work from the outset, using libraries, archives, language classes and IT as appropriate. Applications from intending research students should include a description of the proposed research topic.
Collaborative projects

At any one time, the School has a number of collaborative research projects, which are advertised on the School web pages (more than £600,000 of research grant income from 2008-12). Current and recently completed projects include the following:

After Augustine
An interdisciplinary long-term project, initially funded by the Leverhulme Trust, to map the reception of Augustine of Hippo from his death up to the present (see: www.st-andrews.ac.uk/classics/after-augustine). The significance of the project lies in its impact on a broad spectrum of disciplines in the humanities and social sciences. It has been directed by Professor Karla Pollmann. A number of publications are forthcoming, including K Pollmann et. al. (editors), The Oxford Guide to the Historical Reception of Augustine (Oxford 2013).

Latin Panegyric
Panegyrici Latini is a collection of twelve speeches of praise delivered to various Roman emperors. The project is a collaborative research venture between the universities of Liverpool and St Andrews, with Dr Roger Rees co-ordinating research into the historical contexts and rhetorical, syntactical, stylistic, lexical and intertextual character of the speeches. See: www.st-andrews.ac.uk/classics/panegyric
Dr Rees’s edited volume Latin Panegyric (in the series Oxford Readings in Classical Studies), was published in March 2012 by Oxford University Press.

Literary Interactions under Nerva, Trajan and Hadrian
This project brings together researchers with an interest in Nervan, Trajunic and Hadrianic literature to examine the texts and the literary culture of the period collectively, and also the interface between Roman literary, social and political life: http://arts.st-andrews.ac.uk/literaryinteractions
The project is directed by Dr Alice König, with collaborators from other UK universities, and funded by the British Academy and the Leverhulme Trust. It hosted a major international conference in June 2013 in St Andrews.

Reconstructing Church Space
A collaboration, developed with funding from the AHRC, led by archaeologist Dr Rebecca Sweetman (Classics) and Dr Alan Miller (Computer Science) to use virtual 3D reconstructions to inform archaeological research: www.st-andrews.ac.uk/classics/research/projects/church-space
It includes among other things a virtual reconstruction of the Sparta Basilica and St Andrews Cathedral, and a database of Greek churches in the Peloponnese with a clickable map.

Science and Empire
This project, on the scientific writing of the Roman Empire and its broader cultural and political contexts, was generously funded by the Leverhulme Trust and jointly directed by Dr Jason König and Professor Greg Woolf
http://arts.st-andrews.ac.uk/science-and-empire
It ran under the aegis of the School’s Logos centre, which continues to be an important focus for collaborative work in the School on a wide range of scientific and philosophical topics: www.st-andrews.ac.uk/classics/research/logos
Ancient Libraries, edited by Jason Koenig, Katerina Oikonomopoulou and Greg Woolf was published by Cambridge University Press in April 2013, and two further titles – Encyclopaedism from Antiquity to the Enlightenment, and Authority and Expertise in Ancient Scientific Culture are forthcoming from CUP.
The School is located in two neighbouring purpose-built buildings with nearly 30 academic staff and around 15 postdoctoral researchers.

The School admits approximately 12 students to its PhD programmes every year, as well as about 60 MSc students and 50 undergraduates.

We provide excellent office and computer facilities for our research students.

We have a dedicated Human Computer Interaction (HCI) laboratory with eye tracker, interactive surfaces, mobile devices, tracking system and novel interfaces.

We have regular School seminars and biannual lecture series by distinguished visitors from academia and industry (www.cs.st-andrews.ac.uk). The Systems and Human Computer Interaction research groups also have their own seminar series.

The School includes part of the Centre for Interdisciplinary Research in Computational Algebra (CIRCA), which offers a unique interdisciplinary environment for research on the borders of Mathematics and Computer Science, including computational group theory, constraint solving, algorithms, parallel computing and other topics.

The School is one of the hosts of the Scottish Informatics and Computer Science Alliance (SICSA) and we have staff leading research themes within it.

**Research community**

The School of Computer Science at St Andrews conducts internationally excellent research on a broad range of topics in theoretical and practical Computer Science. We have a long history of successful postgraduate training and research, and graduates from St Andrews are successful in industry and universities throughout the world.

The School is expanding and has been increasing staff numbers, bringing us up to 28 academic staff. We have eight professors in core research areas of symbolic computing, human-computer interaction, data science and adaptive systems, and large-scale systems engineering.

The numbers of postdoctoral research staff and of PhD students are growing rapidly, deepening and broadening our research environment and improving the research student experience.

We welcome applications from enthusiastic, well-qualified and highly-motivated students who are interested in developing their knowledge of the discipline. All research students become part of the international computer science research community and have opportunities to travel and present their work at conferences and workshops.

Researchers in computer science study the fundamental abstractions used in the construction of complex computer systems. The work ranges from the development and analysis of new formal models, through construction of prototype hardware and software systems using new techniques or testing new ideas, to exploring new ways for people to interact with computers. Our main research areas include:

- Symbolic Computation including computational logic, computational algebra, natural language processing, computer music, constraint programming and intelligent computation.
- Human Computer Interaction including pervasive and ubiquitous computing, input and output technologies, intelligent interactive systems and visualisation.
- Data science and adaptive systems, covering socio-technical systems, data-intensive and high-performance computing, sensor and networked systems, programming models and systems architecture.
- Systems engineering including software engineering, system dependability and social informatics, and functional programming.

For full information about our research projects see: www.cs.st-andrews.ac.uk/research

---

**Contact**

E: pg-admin-cs@st-andrews.ac.uk
T: +44 (0)1334 463253
or +44 (0)1334 463251
www.cs.st-andrews.ac.uk/pg
Facilities

Our purpose-built buildings have excellent teaching and research laboratories. Our labs are amongst the best in the world and are well equipped with PCs, Linux systems and Macintosh computers, as well as specialised high-speed networking and monitoring equipment and three Beowulf clusters for computationally intensive activities. We have a dedicated HCI laboratory with specialist equipment including a Microsoft Surface 2 and 1, DiamondTouch, Eye Tracker, Optitrack and a range of mobile, tablet and novel interface technologies. We have facilities for fabricating experimental devices, sensor motes and networks.

Supervision and support

You are assigned a primary and secondary supervisor, with whom you develop an individual programme of study and research that may include taught modules and joint work with other students in similar areas. Progress is reviewed each year through a combination of an annual report and a poster session allowing all students to present their work to their peers and the School, coupled with a review meeting to monitor any issues arising. You are encouraged to engage with the intellectual life of the School, as well as with the international research community by presenting your work at appropriate workshops and conferences.

Research areas

Research in the School of Computer Science is based around four broad research themes, within which groups of staff work in more focused research groups. Most staff work across groups, with several being involved in the activities of three themes.
Symbolic Computation

Research in Symbolic Computation includes everything from search techniques used in planning and optimisation, the development and analysis of algorithms to solve subtle mathematical problems through computer processing of human language and music, to software that works better by modelling emotions. Our approach is based on close linking of theory and practice, and involves collaborations with researchers in many disciplines in academia and industry all over the world.

Academic staff

Professor I Gent (ian.gent@st-andrews.ac.uk)
Professor S Linton (steve.linton@st-andrews.ac.uk)
Dr T Kelsey (twk@st-andrews.ac.uk)
Dr I Miguel (ijm@st-andrews.ac.uk)
Dr M-J Nederhof (mn31@st-andrews.ac.uk)
Dr M Weir (mkw@st-andrews.ac.uk)
Dr C Jefferson (caj21@st-andrews.ac.uk)

Main research areas

**Constraint Programming and Search**

Constraints are a natural means of representing knowledge. For example, we might say that the sum of two variables must be thirty; that no two adjacent countries on a map may be coloured the same; or that the maths class must be timetabled between 9am and 11am on a Wednesday. Constraint programming is the solution of problems such as timetabling, scheduling and design by first modelling the problem as a set of constraints on decision variables and then searching for assignments to the decision variables that are solutions to the problem. Our research encompasses both modelling and solving phases. We are developing tools to automate the notoriously difficult modelling process and, working with computational mathematicians, we are exploiting symmetries in problems and models to reduce the amount of search needed, using a branch of mathematics called group theory.

**Intelligent Computation**

What computational principles can characterise the special goal-directed action in natural agents and also be general enough to allow transfer of these features to generate the same type of plasticity and persistence in robots? We are investigating principles that enable cognitive strategies to be picked out in natural agent behaviour as well as providing prediction of the trajectory as the goal is attempted. The same principles provide robots with smoother and more successful behaviour and are put to work in artificial neural search and adaptation. Another activity explores how artificial agents may be designed to compute more effectively by using models of emotion. The aim here is to design emotional models that allow agents to perform more flexibly and powerfully. Neural networks are used to learn the emotions of other agents.

**Natural Language and Syntactic Analysis**

Syntactic analysis plays an important role in automatic processing of language. It amounts to dividing sentences into phrases, and these into yet smaller phrases, down to the level of individual words. The structure found in this way can be exploited in further phases of analysis, for example in order to determine the meaning of sentences. Our research focuses on formal models of syntax and syntactic processing, and involves machine learning and statistical techniques. A second line of research in the area of natural language concerns corpora of ancient languages and scripts.

**Computational Algebra**

Computers play an increasing role in modern mathematics, and computation plays an increasing role in cryptography, computer science, physics and engineering. As part of CIRCA (Centre for Interdisciplinary Research in Computational Algebra) we work with mathematicians and others on the application of computers to problems in abstract algebra – particularly group theory, the mathematical theory of symmetry, and related areas, and the application of computational methods in these areas in Computer Science, Physics and Mathematics.
St Andrews Human Computer Interaction (SACHI)

SACHI researchers at St Andrews study everything from interaction and privacy in pervasive and ubiquitous computing, to novel input and output technologies. We also work on information visualisation methods used in visual analytics and the development of algorithms to adapt interfaces in multi-display environments, along with accessible and intelligent interactive systems to the perceptual aspects of interfaces. A further strand of research addresses technology-enhanced learning through the use of virtual environments and interactive education.

The group consists of leading academics in the field of HCI who publish in top-tier venues. Our members have had central roles in conferences such as CHI, MobileHCI, UIST, ITS, LoCA, Pervasive and BCS HCI. Our approach is based on grounded theory leading to new practice, and involves interdisciplinary research, funded collaborations with industry and leading researchers internationally. Previous work has been commercialised in industry and taken into start-ups.

Academic staff

Professor A Quigley (aquigley@st-andrews.ac.uk)
Dr T Henderson (tnh@st-andrews.ac.uk)
Dr P Kristensson (pok@st-andrews.ac.uk)
Dr M Nacenta (mans@st-andrews.ac.uk)
Dr Colin Allison (ca@st-andrews.ac.uk)
Dr Alan Miller (alanm@st-andrews.ac.uk)

Main research areas

Ubiquitous Computing

This is a model of computing in which computation is everywhere and computer functions are integrated into everything. In SACHI we are interested in exploring mobile and embedded devices in almost every type of physical artefact including cars, toys, tools, homes, appliances, clothing and work surfaces. Indeed, anywhere computation will aid someone in solving a problem or performing a task in situ, Ubicomp can be viewed as the model of computation. Some of our current research explores interfaces for managing personal data in ubiquitous computing and methodologies for measuring privacy perceptions.

Information Visualisation

This is a research area that focuses on the use of graphical techniques to present data in an explicit form. We focus on the visual presentation of data without a physical or geometric form. As such it relies on research in mathematics, data mining, data structures, algorithms, graph drawing, human-computer interaction, cognitive psychology, semiotics, cartography, interactive graphics, imaging and visual design. Some of our current research explores large graph layout, public visualisation, dynamic graph layout, novel display environments and realtime visualisation.

Input and Output Technologies

The way we communicate and exchange information with computing systems is changing very fast. Human-computer interaction that ten years ago seemed like science fiction is now pervasive and cheap. In SACHI we work on designing new technologies for input and output such as text input, haptic feedback, and new types of displays and interactive surfaces. However, we also think it is very important to study carefully these new technologies and find strong evidence that supports the design of meaningful ones. Some of our current research explores haptic interaction, the use of eye tracking, novel text entry methods, dwell-free eye typing and the perceptual aspects of interfaces.

Interactive Surfaces and Gesture Interaction

An increasing number of interactive displays of very different sizes, portability, projectability and form factors are starting to become part of the systems that we make use of in our daily lives. In SACHI we are interested in the infrastructure, interaction and design challenges of using new forms of interactive surfaces along with combinations of devices. Some of our current research explores multi-display environments, indoor/outdoor augmented reality, the cost of display switching, the development of algorithms to adapt interfaces in multi-display environments and the continuous recognition of one-handed and two-handed gestures.

Technology Enhanced Learning

We have several activities looking at how learning can be improved and enhanced by the use of online, service-based learning environments. For example, Finesse (Finance Education in a Scalable Software Environment) has been created to support the teaching and learning of finance. Finesse simulates a microcosm of the real market by using live market data that is updated every few minutes from numerous stock exchanges, enabling finance students to manage their own investment portfolios. As part of the European Learning Grid Infrastructure we developed software technologies that promote and support learning through knowledge construction rather than information transfer. We are investigating the use of network learning objects to improve understanding of advanced network topics such as the Transmission Control Protocol and WiFi (IEEE 802.11) networks. In particular we are developing a framework for the exploitation of Planet Lab for computer networking education. Most recently we have been involved in the construction of Multi User Virtual Learning Environments using OpenSim and Second Life.
Data Science and Adaptive Systems

Data science underlies high-performance and data-intensive computing, including aspects of collection, analysis, design, architecture, programming and analysis of large data sets. We work in conjunction with cloud computing providers, sensor systems developers, and producers and consumers of large volumes of data, in industry and academia across the world. We have a very practical approach to research; we like to build software and systems and to perform experiments.

Academic staff

Professor S Bhatti (saleem@st-andrews.ac.uk)
Professor A Dearle (alan.dearle@st-andrews.ac.uk)
Professor S Dobson (simon.dobson@st-andrews.ac.uk)
Dr D Balasubramaniam (dharini@st-andrews.ac.uk)
Dr T Henderson (tnhh@st-andrews.ac.uk)
Dr A Barker (adam.barker@st-andrews.ac.uk)
Dr G Kirby (graham.kirby@st-andrews.ac.uk)
Dr J Ye (juan.ye@st-andrews.ac.uk)

Main research areas

Sensor Networks
Sensors are simple computing devices that collect data from their environment. We are creating methods and tools for the design, implementation, and adaptation of entire environmental sensor network systems. We are also looking at routing and communications in sensor networks, a key component in enabling the operation of the whole sensor network.

Autonomic, Distributed File Systems
Users would like to store their data safely and reliably, access it from anywhere and control its security flexibly, without needing to be aware of the complex underlying storage implementation. We address this requirement by designing a write-once log-structured storage layer operating above a peer-to-peer overlay network. Content-based addressing can be used to achieve location-independent access to data; replication of data ‘in the right place, at the right time’ can be used to achieve reliability and low latency.

High Speed Networking
We are involved in work on protocols and mechanisms for high-speed, QoS-controlled networking within Internet Protocol based environments. We are also researching how applications make use of the new services, mechanisms and protocols within a real network environment operating at Gb/s speeds.

Monitoring, Measurement and Performance
Different network technologies offer different capabilities and service levels. When these are connected together, the resulting network landscape presents a complex, heterogeneous, and challenging management problem. We are looking at establishing monitoring systems and analysing the collected data in order to make near-real-time and off-line analysis of the network operation and performance.

Video Fingerprinting for Digital Assets Management
This research involves the development and commercial exploitation of a novel technology for use in digital assets management. Application areas include: multimedia copyright protection, P2P, network video piracy detection, TV and broadcast archive management and media companies assets management.

Denial of Service (DoS) defence
The work here concentrates on looking at TCP, the most widely used protocol, and seeing how defences can be built at an end-site by a combination of traffic monitoring and knowledge about the end-systems themselves.

Covert Channels in Communication Networks
The use of covert channels and steganography in public computer networks is an effective means of information hiding and secret communication. We examine the potential for the use of covert channels in widely-used ‘public’ protocols, such as TCP/IP Internet protocols.

Network Architectures for Mobile Systems
The connectivity available to a mobile system may vary, from GSM, to wireless LAN, to 3G. The system may require more than one of these modes to be active at once, for example making a phone call whilst performing a document download. We are examining how flexible and dynamic connectivity can be enabled, by redefining how edge networks make use of routing, addressing and control signalling to self-organise intra- and inter-network connectivity.

Novel Middleware Systems Architecture
We are addressing the deficiencies in current middleware systems by creating transformational tools and novel middleware, which can overcome limitations in existing systems such as inter-address-space communication, replication and coherency of objects and policy placement. Transformational tools create an isomorphic version of an existing application that can be instrumented to support non-functional behaviour such as distribution, persistence, application profiling, resiliency, replication, robustness and performance.

Software Architectures
Work on software architecture focuses on methods and techniques for developing evolvable system architectures that can adapt to the needs of the application. One approach is to develop tools that support performance-driven evolution of applications. This helps explore the need for change by empirically measuring application performance. We are also interested in formal architectural style-based languages for describing and analysing design-time and run-time evolvable software architectures, taking into account reuse of components. Customised process-driven environments will provide tools to support architectural models (including quality attributes), reasoning about these models and refining them into compliant implementations.

Peer-to-peer (P2P) architectures are an emerging area of interest. We are interested in evaluation techniques for P2P storage architectures and tools and techniques for rapidly developing dependable and secure P2P systems.

Programming Highly Sensorised Systems
Many modern systems now include sensors to observe their actions and environments. The challenge is to interpret imprecise, partial and often conflicting sensor observations to inform intelligent actions. Our work in this area focuses on uncertain reasoning (to understand what is happening), programming paradigms (to cleanly and efficiently express what we want to happen), and mathematical analysis (to ensure that systems remain within a safe envelope of behaviour).
Systems Engineering
Our research in software engineering includes research into design and dependability issues for whole systems which include hardware, software, human and organisational components. We believe that inter-disciplinary approaches are essential to address the problems of complex systems design and welcome applications from students whose interests include human as well as technical factors. We work closely with other universities and industry elsewhere in the UK and in Europe.

Academic staff
Professor K Hammond (kh8@st-andrews.ac.uk)
Professor I Sommerville
(lan.sommerville@st-andrews.ac.uk)
Dr J Bowles (jjdb@st-andrews.ac.uk)
Dr I Duncan (ishbel.duncan@st-andrews.ac.uk)
Dr A Voss (alex.voss@st-andrews.ac.uk)
Dr E Brady (ecb10@st-andrews.ac.uk)

Main research areas
Dependability and Security
As we become increasingly reliant on complex computer systems, system dependability is increasingly important. We view this as a systems and not just a software problem and a socio-technical perspective is essential. We focus on three areas – the dependability of service-oriented systems; designing systems for recoverability after failure and dependable systems configuration. We are concerned with methods and techniques for dependability specification, understanding how people recover from system failures and developing tools to support dependable systems design.

Work in security is concerned with investigating privacy and security engineering requirements, electronic voting, computational privacy and denial of service detection and policy management for networks.

Social Informatics
Social informatics is a new discipline at the interface between social and organisational sciences and computer science. We are interested in the social analysis of environments where complex computer-based systems are used and using this understanding to align the system requirements and design with the tasks that the system has to support. We are particularly interested in non-intrusive methods of social analysis for long-term studies of work, integrating social analysis with software engineering processes, modelling responsibilities in complex systems and understanding programming as a social process.

Functional Programming, Types and Foundations of Programming
This area is at the forefront of advanced language design and implementation. Several key advances in type theory, program analysis, garbage collection, resource usage and compilation have already been made using functional language technology. We are researching a number of new areas including the application of functional programming to real-time embedded systems, multicore computing, Grid systems, resource bounded computation, dependent types, generative programming and program logics.

Financial assistance within Computer Science

Doctoral training grants (PhD)
The School has a number of grants available, funded by EPSRC’s Doctoral Training Grant scheme. This is generously funded for eligible students, covering all fees and a minimum (tax-free) stipend of £13,590 (for 2012-2013), and typically covers three or three-and-a-half years. Eligible students are usually those who have been resident in the UK for three years (not counting full-time education) or EU students who have been resident in the UK for three years (including education). Other EU students may be eligible for their fees to be paid, but not a stipend. This funding is allocated by the School in two rounds, one in March and one in June. In the first round, guarantees of funding may be made to outstanding students, typically conditional on their achieving First Class Honours or a Distinction at Masters level. In the second round, all available funding will be allocated taking into account student qualifications and the availability of appropriate supervisors.

School Scholarships: School studentships covering living expenses and fees at the UK level are open to all applicants. However, we have a very small number of these studentships and they will only be awarded to exceptional applicants who have the equivalent of a First Class Honours degree. Students from overseas must have additional funding to cover the overseas fee.

Targeted Funding: From time to time the School obtains funding for PhD studentships for targeted pieces of research. Such opportunities are usually advertised. For outstanding students with relevant backgrounds, members of staff occasionally obtain funding specifically for them and their research interests. Students should contact the member of staff they wish to work with to discuss the possibilities.

Careers
Research and taught postgraduate degrees in Computer Science produce graduates who are well equipped to pursue careers at the forefront of technology. Our recent graduates have gone on to work in a variety of global, commercial, financial and research institutions and many have taken academic posts in leading universities.

Please see page 24 for details of the University’s Careers Centre.

Return to Contents
Scotland’s oldest university offers an exceptional heritage of academic excellence in theology extending from its founding in 1413. Divinity is based at St Mary’s College, which in 2013 celebrated its 475th anniversary:

- 21 academic staff undertaking research in a wide range of specialisms, with several researchers who are world-leaders in their fields.
- Around 75 postgraduate students enrolled, with an intake of around 30 each year.
- Outstanding weekly seminars in Biblical Studies; Systematic and Historical Theology; Theology, Imagination and the Arts; Religion and Politics.
- Vibrant research Institutes or Centres pursuing cutting-edge work in Bible, Theology and Hermeneutics; Theology, Imagination and the Arts; Religion and Politics.
- Regular workshops and colloquia on Scripture and Theology.
- Frequent national and international conferences with major visiting lecturers.
- A close-knit and highly supportive community, where academics and postgraduates pursue cutting-edge work together, in surroundings of exceptional beauty.
- Dedicated facilities for postgraduate students, housed in splendid historic buildings.
- A regular programme of College social events and activities specifically for graduate students.
- A commitment to your overall development, including enhancement of effective communication and leadership skills, in preparation for your future career.
- Regular liaison with staff and students from other Scottish universities.

Contact

E: divinitypg@st-andrews.ac.uk
T: +44 (0)1334 462826/462850
www.st-andrews.ac.uk/divinity/admissions/pg
St Mary’s College
Theology has been taught in the University since its earliest days. As the seat of the Archbishop of St Andrews, the primate of the mediaeval Scottish Church, the city of St Andrews was for many centuries the centre of church life in Scotland. During the crucial time of the Reformation, St Andrews was the heart of much of the action, witnessing the capture of John Knox by French Catholic forces and not the few martyrdoms but also the passionate debating of key theological issues.

St Mary’s College was officially founded in 1539, though the papal bull authorising its establishment was granted a year earlier. Following the initial effects of the Reformation in Scotland, the College received a new charter in the 1550s, and in 1579 it became a place of theological teaching and the home of the University’s Divinity Faculty, where it remains to this day. Its fine sixteenth-century buildings are grouped around two sides of a spacious quadrangle. In this stately setting, St Mary’s is a lively part of the modern University community, and one to which many students have great loyalty. The College Society, run by the students, organises social events throughout the year, and there are close links with local churches and other bodies.

Facilities
The Roundel, an impressive renovated sixteenth-century house opposite the Cathedral, is the site of the College’s main Postgraduate Centre. With 24-hour access, it offers study spaces to around 45 postgraduates. There are data sockets, printing facilities, a common room, and disabled access.

St Andrews is fortunate to have fine, modern library facilities and a strong collection of books and journals in areas related to theological study. The basis of that strength was laid a long time ago: during the eighteenth and nineteenth centuries, the University Library enjoyed copyright status, and there are rich theological, historical and biblical resources from that period. In modern times, Divinity’s prominence in these areas has ensured the continuance of excellent research facilities. In addition to the holdings in the University Library, Divinity has a further collection of its books housed in the King James Library, which adjoins the College quadrangle; further study facilities are available there. Access to bibliographical and other scholarly databases, and other electronic resources, is available online: www.st-andrews.ac.uk/library

You will have access to email, internet, and web services and there are computer clusters provided across the University.

Students have access to all the University’s facilities: sporting, debating, the performing arts, film, music (particularly strong in the University), and social and political societies of all kinds. There is a lively Chaplaincy Centre, plus denominational and other Christian societies and groups representing other faiths. On Sundays the University holds an ecumenical service in St Salvator’s Chapel, at which prominent individuals from all branches of the Christian church are invited to preach.
Collaborations

Collaborations, liaisons and networks are a distinctive aspect of the way research has developed in the Faculty of Divinity. Staff and students are attracted from across the world. More importantly, there is a desire among scholars to come together and share their discoveries. Evidence of this is found on several fronts:

- **The Scripture and Theology project** – a deliberate effort to bring our theologians and biblical scholars together into dialogue on the hermeneutical tasks of exploring the biblical tradition in contemporary settings. Every three years this peaks with a conference which looks at one book of the bible and theological themes arising from it. This has resulted in a series of significant publications, on the theology of the Gospel of John, of Hebrews, and of Genesis. Major papers from the conference in July 2012, on Galatians, will be published in 2014. Dr Mark Elliott provides leadership for these projects within the Institute for Bible, Theology and Hermeneutics, and there is significant involvement by Professor Tom Wright, Dr Scott Hafemann, Dr Grant Macaskill and others.

- **Interdisciplinary studies** – within the Institute for Theology, Imagination and the Arts, Professor David Brown FBA, has an international reputation for his writings on theology, aesthetics and culture. Dr Gavin Hopps’ works on theology and poetry and on ‘alternative music and Dr Ian Bradley has written on the theology of the musical. Professor Mario Aguilar directs the Centre for the Study of Religion and Politics, in which Dr Eric Stoddart is also closely involved. There is a wide variety of projects on religious groups in their political contexts, including the churches in Latin America, Asia and Africa. Dr Stoddart is pioneering innovative work in the area of religion and surveillance.

- **National and international conferences** – the School regularly hosts major conferences. In July 2013 it hosted the Society of Biblical Literature International Meeting, with a stellar cast of participants and almost 1,000 delegates from across the world. It also welcomed the British New Testament Conference. There are the St Andrews Conferences on Scripture and Christian Theology every three years, and frequent conferences on Theology, Imagination and the Arts. There are high-profile events also in Systematic Theology and other fields. www.st-andrews.ac.uk/divinity/rt/conf

- **Graduate conferences** – students regularly organise conferences of their own, with invited speakers as well as local presenters. There has been a series of annual graduate conferences in Biblical and Early Christian Studies in recent years, which have provided a lively forum for discussion of texts, text criticism, and the history of textual interpretation. Students have also set up online, real-time web conferences, with major scholars debating themes such as ecclesiology and ethics.

Supervision and support

The PhD programme takes three years of full-time study. You are assigned a supervisor from the teaching staff, chosen to match your proposed research interests. In consultation with that supervisor you begin to define more closely a topic for research. Guidance is offered in basic research skills, but from the start you are expected to be able to pursue a programme of largely independent work, making use of libraries, archives, language labs and IT as required. In certain cases specific classes may be recommended. Regular participation in advanced or postgraduate seminars is expected. By the end of the first six months of work you submit a detailed thesis proposal and plan, a classified bibliography relating to your subject of research, and around 10,000 words suitable for potential inclusion in the thesis.

For many students this pattern of research (often preceded by some Masters-level work) is greatly preferable to the more extensive doctoral programmes in North America, where the actual research for the dissertation is not begun until late in the programme. In St Andrews, the doctoral thesis is the focus from the start. The burden of tuition fees and subsistence is thereby also lessened.

Research Centres and Institutes

- **The Institute for Theology, Imagination and the Arts (ITIA)**
- **Institute for Bible, Theology and Hermeneutics (IBTH)**
- **Centre for the Study of Religion and Politics (CSRP)**

For full details see page 27.
Research areas

Divinity in St Andrews incorporates a variety of sub-disciplines – biblical, historical, theological, philosophico-ethnical, literary, practical and contextual. The boundaries between these fields are increasingly porous, and St Andrews is highly distinctive for its work in bridging the biblical and theological disciplines. The research of the School has also promoted interdisciplinary engagement with literature, music, theatre, political science, anthropology, philosophy and the sciences. Major areas of study and leading scholars currently include:

Hebrew Bible/Old Testament Studies
Professor K De Troyer (kdt21@st-andrews.ac.uk)
Text Criticism; History of the Biblical Text; Septuagint; Wisdom Literature; Second Temple Judaism. The interaction of history of the biblical text and hermeneutics; biblical manuscripts and the reconstruction of the biblical text.
Dr W A Tooman (wt21@st-andrews.ac.uk)
Hebrew Bible; Biblical Hebrew, prophetic literature; Inner-biblical interpretation; Ezekiel (interpretation and reception); Composition History; History of interpretation.

Early Jewish Studies
Professor J R Davila (jrd4@st-andrews.ac.uk)
Second Temple Judaism; Dead Sea Scrolls; Old Testament Pseudepigrapha; Hebrew Bible and biblical Hebrew; Aramaic; Hebraistic literature/Jewish Merkavah mysticism; Divine mediator figures in antiquity; Judaism of the Second Temple Period.

New Testament Studies
Professor N T Wright (ntw2@st-andrews.ac.uk)
Christian origins and the question of God; Paul and Pauline theology; The gospels; Scripture and theology.
Dr S Hafemann (sjh23@st-andrews.ac.uk)
Dr G Macaskill (gm37@st-andrews.ac.uk)
Matthew’s Gospel; The Book of Revelation; Dead Sea Scrolls; Jewish and Christian Pseudepigrapha (especially 2 Enoch); Theological interpretation of scripture.

Dr E Shively (ees3@st-andrews.ac.uk)

Contextual Theology (including Religion and Politics)
Professor M I Aguilar (mia2@st-andrews.ac.uk)
The Study of Religion and Politics; Practical Theology with reference to the Church in Latin America and Africa; World Religions, particularly Hinduism and Islam; Liberation Theology; Religion and theology in Africa and Latin America; Islam in Africa; Theology of the poor and the disappeared; History and colonialism in Chile, Colombia, Rwanda and Tibet.

History of Biblical Interpretation
Dr M W Elliott (mwe1@st-andrews.ac.uk)
History of Christian Spirituality (mediaeval and early modern); History of biblical interpretation; Scottish Church and theology; Biblical theology; History of doctrines; Catholic and Reformed theology.

Practical Theology
Rev Dr I C Bradley (icb@st-andrews.ac.uk)
Christianity in contemporary Britain; Hymnody, liturgy and worship; Theology and popular culture; Monarchy, church and state; The theology of the musical; Scottish spirituality; Pilgrimage; Liberal theology; The spirituality of spas; Scottish and Celtic spirituality; Britishness.
Dr E Stoddart (es61@st-andrews.ac.uk)
Practical Theology; Surveillance technologies and digital ethics; Citizenship and its relationship to spiritualities; Pastoral care in ecumenical perspectives.
Dr J Perry
Theological Ethics; Christian Ethics and political liberalism; Medical and sexual ethics.

Systematic, Historical, Philological Theology
Professor I J Davidson (ijd1@st-andrews.ac.uk)
Head of School, Principal of St Mary’s College and Dean of Divinity. Systematic and Historical Theology: Patristic Theology; Christian doctrine, particularly Christology; Soteriology; Trinitarian Theology.

Professor A J Torrance (torrance@st-andrews.ac.uk)
Philosophical and systematic theology; Theological anthropology; Person and work of Christ; Karl Barth; Theology of reconciliation and its social implications; Theological epistemology and time; The nature of the self.
Professor J B Webster (jbw5@st-andrews.ac.uk)
Systematic theology; Christian dogmatics; Modern historical theology; Karl Barth; Nature and interpretation of Scripture.
Professor D W Brown (dwb21@st-andrews.ac.uk)
Kenotic Christology; Sacramental theology.
Dr S R Holmes (shr80@st-andrews.ac.uk)
Historical and contemporary theology; Reformed and Baptist traditions; John Calvin; The doctrine of God; Soteriology; Evangelical theology.

Theology, Imagination and the Arts
Professor D W Brown (dwb21@st-andrews.ac.uk)
Theology and its relations with the wider culture, especially the arts and philosophy; The arts and aesthetics; Kenotic Christology; Sacramental theology.
Dr G Hoppis (Gavin.Hoppis@st-andrews.ac.uk)
Literature and theology; Romantic writing and postmodern theology.

Financial assistance and career development

Some funding is available to attend academic conferences most relevant to your fields of study, in order to meet other leading academics and to have an opportunity to present ideas in seminars and other groups. The University offers regular grant opportunities to researchers to support professional development, with awards for innovative seminar and conference activity. Recent years have seen very successful student-led development seminars, with input from senior academic staff and experts from elsewhere in the University.

Careers

Applicants from abroad for the doctoral programme are naturally sometimes concerned about their prospects in gaining academic positions in their home countries upon completion of their studies. In recent years, about 80% of our graduates have taken full-time posts, mostly but not exclusively in North America. This is not something which we simply take for granted. The close contacts of many St Andrews staff with North America, and their regular attendance at the annual meetings of the American Academy of Religion and Society of Biblical Literature, provide an important network for supporting graduates in building their future careers. This is further strengthened by our own exceptional network of alumni who have, over many decades, become established in teaching positions in the United States and Canada.

Please see page 24 for details of the University’s Careers Centre.
The Department of Earth & Environmental Sciences (DEES) resides within the School of Geography & Geosciences, which has 46 full-time academic staff, 3 teaching fellows, 28 support staff, 25 postdoctoral research fellows and 51 research postgraduate students.

- Expertise in DEES includes the co-evolution of Earth and Life; development of the continental crust; interpreting the influence of tectonics and climate change on the development of sedimentary systems from the Precambrian to the present; and identifying the occurrence patterns of conventional and alternative mineral, hydrocarbon, and energy resources.
- We have excellent in-house laboratories for the analysis of Earth materials and complementary field equipment and IT support for addressing a range of environmental problems.
- Across the School, we emphasise a range of different skills training, producing highly literate and numerate graduates with excellent employment prospects.

Contact

E: earth@st-andrews.ac.uk
http://earthsci.st-andrews.ac.uk

Research community

The Department has an international reputation for research excellence and attracts major funding from UK Research Councils, International Research Foundations, the EU and other bodies such as the Leverhulme Trust, the Carnegie Trust, Scottish Natural Heritage and Historic Scotland. The Department also has strong links to industry through which it receives significant financial support, conducts joint research projects and has numerous industrial placement schemes. Further, it is embedded in a number of cross-discipline and cross-institute research pools including the Marine Alliance for Science and Technology Scotland (MASTS) and the Scottish Alliance for Geosciences, Environment and Society (SAGES) and is a partner in the Scottish Oceans Institute (SOI).

Entering the Department, you will be joining an active, vibrant and expanding research community. We offer research degrees in Earth and Environmental Sciences and have strong links with other disciplines in the University, especially Chemistry, Physics, Biology, Mathematics and Geography. Our facilities enable a wide range of quantitative, qualitative, mixed-methods and laboratory-based research. You will benefit from being members of research clusters that promote the exchange of ideas with other workers in your field as well as across disciplines. Research is conducted in many areas of the world including the UK, Eastern and Western Europe, the Americas, Australia, South-East Asia, Africa, the Arctic and Antarctic. We are also involved in the public policy arena, producing advisory reports for key public institutions.
Facilities

IT
Excellent IT and GIS hardware and software (Arcview, Arcinfo, Mapinfo) resources are available with good access to remote sensing data, Ordnance Survey and other digital geological databases. There is a wide range of software available for both quantitative and qualitative data analysis (e.g. Matlab, NVivo, SPSS, Stata, MLn, Minitab, SpaceStat) plus database management and spreadsheet packages.

Labs
The Department houses a diverse suite of laboratory instrumentation that underpins research by both staff and students (http://earthsci.st-andrews.ac.uk/feea). The facilities allow researchers to undertake geological, geochemical, geophysical and environmental investigations with collaborators from around the world and include four laboratory clusters:

- **Laboratories for Earth and Environmental Chemistry** – X-ray fluorescence, X-ray diffraction, LA-ICP-MS with multi-collectors, Mass Spectrometry, reduced atmosphere aqueous synthesis suite.
- **Macro-Micro Imaging Facility** – 3D digital microscope, electron microprobe, electron microscopy, 3D laser scanning, wet/dry digital scanning, fluid inclusion microscopy and thermometry, petrography and cathodoluminescence imaging, laser grain size analysis, fibre-optic diffuse and specular reflectance spectroscopy, laser Raman spectroscopy.
- **Luminescence Dating Laboratory** – optically stimulated luminescence, thermluminescence, time-resolved luminescence, diffuse and specular gem and mineral reflectance.
- **Drillcore, Palaeobiology and Biomagnetism Facility** – Thermosusceptibility, remanence mineral magnetism, passive and active magnetic field shielding, anhysteretic acquisition palaeointensity, spinner rock magnetometry and dendrochronology. The Department also houses a coral culturing aquarium.

Field facilities
Research is supported by an array of field equipment including research vehicles and inshore research vessels for terrestrial and marine field work:

- **Terrestrial Geophysical Resources** – portable outcrop magnetic susceptometry, surface-scanning magnetic susceptometry, electrical imaging, electromagnetic ground conductivity, magnetics, UAV.
- **Marine Geophysical Resources** – sidescan sonar, multibeam sonar (low and high frequency), magnetometry, boomer, sparker, pinger sub-bottom, ROV, drop-down video, CTD, salinity logging, tide, stream logging.
- **Sampling** – land and marine vibrocoring, hard rock drilling, piston coring, hand auguring.

Supervision and support
All PhD and MPhil research students have a supervisory team usually comprising a principal supervisor and a second supervisor, although if you are working with organisations or industry outside the University you may have additional supervisors. You will pursue a programme of work agreed with your supervisor/s that is designed around your needs and will include both general and specialist skills training. You may also attend interdisciplinary courses as well as other courses in the core area of your research. Once a year you will present your work at an annual Research Postgraduate Conference, and your progress is reviewed by the Department Postgraduate Committee. For a PhD, work must be of sufficient quality to gain a satisfactory progress report and proceed to the next year of the three-year degree programme. Full-time postgraduate students must submit their PhD thesis within four years of entering the programme. For the MPhil, students will normally submit their dissertation within two years.
Earth Resources
Research in this theme is diverse and includes developing geothermal energy; identification of critical and strategic mineral resources such as “green technology” requisite rare earth elements, silicon, and selenium; understanding of climate- and tectonic-controlled ore deposits such as iron, manganese, germanium, and phosphorous; mitigating toxicity of ore metals cycling through the biosphere and hydrosphere; revealing patterns of hydrocarbon accumulation; and developing strategies to monitor and capture both natural and anthropogenic carbon emissions.

Staff: Bates, Cawood, Donaldson, Finch, Hill, Hawkesworth, Oduro, Prave, Raub, Robinson, Singer, Stephens, Tosca, Walden, Zerkle

Geochemistry
Geochemistry research is focused on the cycling of elements and isotopes, particularly carbon, nitrogen, sulphur, iron, magnesium, manganese, calcium, strontium, boron, selenium, mercury and lithium. Our interest is in solid rock and water-reactive mineral reservoirs throughout the biosphere in both marine and freshwater systems and in deserts. Also research into the atmosphere where elements interact with radiation, solar particles, and other compounds in different and often unusual ways.

Staff: Allison, Burke, Claire, Donaldson, Finch, Hawkesworth, Oduro, Raub, Rinterknecht, Singer, Stephens, Tipper, Tosca, Zerkle

Earth History
Hallmark episodes of Earth System development are targeted by our researchers and include understanding evolutionary radiations in the fossil record, interrogating global-scale changes in atmosphere and ocean chemistry, evolution of the continental crust, and extreme episodes of global change including greenhouse warmings and ice ages varying from regional in scale to the worldwide “Snowball Earth.” Research is focused on characterising the timings and reasons for these changes to Earth’s biosphere and climate, and in informing scenarios confronted by modern stewardship of Planet Earth.

Staff: Allison, Burke, Claire, Oduro, Prave, Rae, Raub, Robinson, Tipper, Tosca, Zerkle

Geobiology
This theme investigates the chemical composition and environmental niches found in natural waters and the Earth’s atmosphere that influence the diversity, life strategies, and evolutionary trajectories of animals, algae and microbial life alike. In turn, many bacteria, plants and animals biomineralise carbonates, phosphates, oxides and sulphur compounds for a variety of energetic, metabolic or toxicity-management purposes and we are interested in documenting those and understanding their controlling mechanisms.

Staff: Allison, Burke, Finch, Oduro, Prave, Rae, Raub, Singer, Stephens, Tipper, Tosca, Wilson, Zerkle

Research areas
Staff emails and profiles are available at: http://earthsci.st-andrews.ac.uk/contacts.html

Climate Dynamics
Forcing of Earth's climate by natural and anthropogenic greenhouse gas emissions, by volcanic eruption, and by the changing shape of Earth's orbital parameters leads to profound shifts in Earth's habitable characteristics for plants, animals, and mankind. Our research includes study of the age and severity of recent glaciations and deglacial warming; regional and global temperature records from the ancient through the past 8,000 years and into the modern era of anthropogenic disturbances. Relative changes in sea level and landscape evolution helps inform and guide responsible conservation and public policy strategies as well as enriching our understanding of the fragile origins and tenacious evolution of humankind on this often-harsh planet.

Staff: Allison, Bates, Burke, Claire, Finch, Hill, Oduro, Prave, Rae, Raub, Rinterknecht, Robinson, Singer, Tipper, Walden, Wilson, Zerkle

Tectonics
The size, shape, character, and motion of Earth’s crustal plates and tectonic blocks influence modern and ancient climate, seawater and atmosphere composition, and the distribution of natural resources from ore bodies to hydrocarbon reservoirs. Research focuses on styles of mountain-building through time and space, the nature of unusual magmas and lavas and, locally, on documenting Scotland’s 3.2 billion year history and its interaction with supercontinents such as Rodinia and Pangaea.

Staff: Cawood, Donaldson, Finch, Hawkesworth, Prave, Raub, Robinson, Tipper
In addition, partial studentship support may be available to cover the costs of fees for self-funded postgraduate students and we welcome applications from self-funded graduates who wish to undertake a postgraduate degree on a full- or part-time basis. There are also opportunities to earn support through demonstrating and other forms of undergraduate teaching.

Conference funding
During your PhD studies, you are encouraged to present your work at international and national conferences. Funding is available within the School towards the costs of conference attendance.

Funding for postgraduate research in the School is from a diverse mixture of sources that includes:

- NERC Research Studentships available to UK applicants studying for a PhD in the Earth and Environmental Sciences. They provide fees and a maintenance grant for up to three-and-a-half years.
- Tied funding to research projects currently running in the Department.
- Industry funded projects.

Various other awards, usually tied to a specific project or sponsored by an external organisation or company, are published on the School’s web pages from time to time. Applicants for awards must follow the procedures guidelines and timetable set out in the application packs and also on our web pages: http://earthsci.st-andrews.ac.uk/opportunities.html

We see postgraduate study as part of your long-term career development and we are here to offer advice and support in that. There are opportunities for postgraduates to gain experience in an academic context through tutorials, practical demonstrations and other related work, as well as gaining practical experience working with companies and governmental organisations. Recent graduates have obtained postdoctoral and lecturing positions in leading universities worldwide, while others have found jobs in environmental management, engineering, mining and the oil industry.

Please see page 24 for details of the University’s Careers Centre.
The members of our School are active researchers pushing the boundary of their respective fields of interest, with publications in the top academic journals.

We pride ourselves on offering a first class research environment, providing students with what they need to concentrate on their research.

We admit about 100 postgraduate students each year across both taught and research in our selective graduate programmes.

We have specialist strengths in Macroeconomics, Monetary Policy, Microeconomic Theory and Experimental Economics.

Our aim is to prepare you for careers in either academia or business or as professional economists in central governments or international organisations. For this reason our courses are designed to appeal to both employers and academic institutions.

In addition to the usual regular programme of seminars (School seminars with speakers invited from both the UK and abroad, and “brown bags” talks given by staff in the School), the School organises at least one international workshop/conference per year in each of the main areas of economic investigation: Macroeconomics, Microeconomic Theory and Econometric Theory. These conferences see the participation of top class international researchers. Please see the School’s web page for up to date details of our conferences, seminars and workshops.

The yearly PhD Conference is a doctoral seminar, compulsory for all students, who present their research progress to the whole School.

Students in Macroeconomics will be interested in the activities of the Centre for Dynamic Macroeconomic Analysis (CDMA), which facilitates an active programme of work centred on macroeconomics theory and policy.

Students in Microeconomic Theory will benefit from the “Microeconomics Reading Group”, where both staff and research students present work which is too preliminary for a more formal seminar. This forum is ideal for the exchange of research ideas and allows students to get feedback on their work from members of staff in a friendly and informal setting.

A brand new Experimental Economics Laboratory is the latest addition to the School’s excellent research facilities, and will allow students in Experimental Economics to design and carry out their own research projects.

Our School offers research supervision at MPhil and PhD levels, for high quality entrants with good research proposals that suit the research interests of the staff members. The aim of our programmes is to develop the personal and intellectual qualities of our students. Our graduate programme is designed for capable and ambitious students who wish to prepare themselves for either an academic life or for senior positions in government, research organisations, or business enterprises. Our objective is to train you for a successful career as economist, either in academia or in professional or business organisations.

Contact

E: pgr@st-andrews.ac.uk
T: +44 (0)1334 462443
www.st-andrews.ac.uk/economics/postgrad/
www.st-andrews.ac.uk/economics/prospective/rpostg
By joining the School of Economics & Finance you will be immersing yourself in a thriving international research community, whose members come from the four corners of the world, having obtained qualifications in the top international educational institutions. Our School is active in advanced scholarship and research. Staff in the School have a record of publishing in the top academic economic journals, such as the American Economic Review, Econometrica, the Quarterly Journal of Economics and The Review of Economic Studies, as well of course as in top field journals. Members of our School are not only active in pushing the boundaries of their research fields: in addition to high quality research, many of our staff members are active in policy advising, in both micro and macroeconomics and the substantial research funding that the School is able to attract testifies to the real world relevance of the research carried out here.

We offer excellent research facilities: a dedicated environment in which to carry out your research, your own desktop computer, and access to a well-stocked library.

The School Postgraduate Training Programme consists of courses (as appropriate) and seminars. These aim to broaden and extend your postgraduate education, in areas that are not covered by the University Postgraduate Training Programme. Successful completion of your training will require satisfactory participation in this programme. Part of the broader input will arise from various research seminar programmes within the School, which all students are expected to attend.

At the end of each year you are expected to present your original research work in the PhD Conference. This is a very important milestone in each year, for which performance at the conference is a crucial component. You are expected to produce research work which contributes to expanding knowledge in your chosen field of study and be of sufficient quality to be printed in quality academic publications.

- Centre for Dynamic Macroeconomic Analysis (CDMA)
  www.st-andrews.ac.uk/cdma

For full details see page 28.
Research areas

Although the School can offer research supervision in many areas, we do have particular strengths. In Macroeconomics, these are: Adaptive Learning and Macroeconomic Dynamics; Dynamic General Equilibrium; Economic growth, institutions, financial development; International Macroeconomics; Macroeconomic Policy; Open Economy Macroeconomics. In Microeconomics: Bounded rationality; Decision theory; Experimental Economics; Game theory; Industrial organisation; Market Design. In Econometrics, we are mostly active in the area of Time series Econometrics.

Below is a list of research interests of our current staff – because of publication lags, you can consult the most up to date list of research online at: www.st-andrews.ac.uk/economics/prospective/rpostg4

Macro, Finance and Econometrics

Dr Leonidas Barbopoulos: Time Series Econometrics; Asset Pricing; Corporate Finance; Foreign Direct Investments (FDI), Mergers and Acquisitions (M&A).
Dr Federico di Pace: Business Cycles; Monetary Policy; Fiscal Policy; Labour Market Dynamics; Great Recessions; Financial Frictions.
Professor George Evans: The role of expectations and learning in business cycles; Macroeconomic policy, and asset markets.
Dr Gonzalo Forgues-Puccio: Economic Growth and Development; Governance and Corruption; Inequality and Income Distribution.
Professor Andrew Hughes-Hallett: Macroeconomic Policy Open Economy Macroeconomics; European Integration.
Dr Laurence Lasselle: Issues on Globalisation and Education.
Dr Peter Macmillan: EMU; Term Structure of Interest Rates.
Professor Rod McCrorie: Econometrics (theoretical and applied); Time Series Analysis.

Professor Kaushik Mitra: Adaptive Learning and Macroeconomic Dynamics; Monetary Policy Design from the viewpoints of Determinacy and Adaptive Learning.
Dr Ozge Senay: Open Economy Macroeconomics; Monetary Economics; Dynamic general equilibrium models with imperfect competition and nominal rigidities in understanding macroeconomic policy questions; Exchange rate regime choice.
Dr Gary Shea: Finance, macroeconomics; Applied econometrics; Japanese economy; Economic history.
Dr Geetha Selvaretanam: Economics of Banking; Creative industries/entertainment industries (e.g. film industry); Development economics.
Dr Jouni Sohkanen: Econometrics.
Dr Gang Sun: Macroeconomics.
Professor Alan Sutherland: Macroeconomics; International macroeconomics; Open economy macroeconomics; International financial markets; Monetary policy; Exchange rate policy; International policy coordination; Country portfolios; Financial globalisation.
Dr Alex Trew: Economic growth; Institutions; Financial development.

Microeconomics and Experimental Economics

Dr Tugce Cuhadaroglu: Economics of Inequality; Decision Theory; Social Choice and Welfare.
Professor Miguel Costa-Gomes: Game theory; Experimental economics.
Dr Theodorus Diasakos: Economic Theory; Microeconomics, Bounded Rationality; Financial Economic Theory; Game Theory; Contract Theory; Mathematical Economics.
Dr Georgios Gerasimou: Game Theory; Decision Theory, Experimental Economics.
Dr Jim Y Jin: Industrial Economics and Comparative Economics, including firm/industry study, market performance, competition policy and country comparison.
Dr Manfredi La Manna: Industrial Organisation (especially oligopoly theory, economics of R&D, Research Joint Ventures, and patents), Economics of Optimal Organisation; Microeconomics of menu costs; Economics of regulation.
Professor Paolo Manzini: Economic Theory; Microeconomics, Bounded Rationality; Game theory; Choice theory; Bargaining, Experimental Economics.
Professor Marco Mariotti: Choice Theory, Decision Theory; Game Theory; Bounded Rationality: Axiomatic models.
Dr Alexandru Nichifor: Matching markets.
Professor Gavin Reid: Industrial organisation; High technology enterprise; Manufacturing productivity; Small firm growth and finance; Venture capital; R&D; IP; Risk; Financial reporting, Microeconomics.
Dr Luca Savorelli: Industrial organisation; Economics of Innovation; Health Economics.
Dr Ian Smith: Household behaviour, especially the economics of the family and religion.
Professor David Ulp: Design of Competition Policy; Taxation – particularly tax compliance; Design of public policy administration; Economics of Climate Change; Economics of innovation; Performance and regulation of charities.
Dr M Kemal Ozbek: Rational Inattention; Microeconomic Theory.
Entry requirements / how to apply

For direct entry to our PhD programme you should have a Masters degree in Economics (at least high 2:1, equivalent qualification). Degrees with good marks in a cognate area, provided their curriculum includes a substantial amount of rigorous formal training in Economics, Mathematics and Statistics will also be considered. Students who do not hold an MSc degree may register for either the MSc Economics or MSc Money, Banking and Finance offered by the School as the first year of a PhD programme. Transition to the PhD programme is subject to satisfactory performance in the MSc degree. The compulsory summer dissertation may form the first step towards the development of a PhD research topic. The School also offers an MSc in Finance.

You should also provide evidence of your proficiency in written and oral English (IELTS 7 or TOEFL IBT 100 or above. Students with a score of IELTS 6.5 or TOEFL 90 should take a four-week pre-sessional English Language and Academic Skills course at St Andrews). Other language qualifications, if taken within the last two years, may also be acceptable. A full list of qualifications can be found at www.st-andrews.ac.uk/elt/entry

Applicants will be required to undertake at least two postgraduate modules in the first year of study, which they should pass with a mark of at least 16.5 in order to progress to the second year. Details of the exact modules will be contained in the offer letter, should your application be successful.

In order to apply, just complete an application form and supply the following supporting documentation:

• Full transcripts, both for your undergraduate and MSc studies.
• Research proposal.
• Up to date curriculum vitae.
• Either a covering letter stating your reasons for pursuing a PhD and your wider research interests or, if you prefer, a statement regarding your broader research interests (maximum two sides of A4).
• Two academic references (these must be in signed, sealed envelopes).
• (Non-native-speakers only.) Evidence of proficiency in English from IELTS or TOEFL.

Please refer to the School’s application web page to download an application form and the reference letter templates and to submit your application online: www.st-andrews.ac.uk/admissions/pg/apply/forms

Finance

Funding to cover fees and/or maintenance (in the form of scholarships of various size) is competitively available to selected applicants.

Careers

Postgraduate study within the School of Economics & Finance is an excellent preparation for careers in a number of fields. Previous generations of students have subsequently followed successful careers in industry, finance, academic research, the civil service, public sector institutions in the UK and international organisations such as central banks, the International Monetary Fund and the World Bank. Our courses are designed to appeal to both employers and academic institutions so that, on completion of a postgraduate course, you will have the skills and knowledge necessary either to have a successful career in the private or public sector, or alternatively follow an academic career either in the UK or abroad. Please do check our PhD web page for an updated list of recent destinations: www.st-andrews.ac.uk/economics/prospective/postg1

Please see page 24 for details of the University’s Careers Centre.
The School of English currently has 30 permanent members of staff, in addition to Teaching Fellows, Honorary Lecturers/Senior Lecturers, and Honorary Professors.

- The School admits around 12 new research postgraduate students each year.
- Research excellence in all periods of English literature from Old English to the present day. In the most recent Research Assessment Exercise 70% of our research was recognised as world leading or internationally excellent.
- Members of the School include winners of the Queen’s Gold Medal for Poetry, Whitbread Prize, T S Eliot Prize for Poetry, the Forward Poetry Prize, the Geoffrey Faber Prize, the Somerset Maugham Award, the Canongate Prize, the Petrarca Prize, the Prix Zepter Prize and a Commonwealth Writers Prize for fiction.
- Varied programme of published writers and academics as visiting speakers, giving you the chance to meet some of the leading figures in their field.
- St Andrews is one of only three universities outside the USA in the Folger Institute consortium.
- The University has one of the highest concentrations of mediaevalists in the UK, united by the St Andrews Institute of Mediaeval Studies (SAIMS).
- The School is home to the Cambridge University Press edition of *Virginia Woolf* edited by Susan Sellers and Jane Goldman (University of Glasgow), making St Andrews a prestigious international centre for Woolf studies.
- The Centre for Research Students, housed in its own building with computers, office space and communal areas, fosters a strong postgraduate community spirit.

**Research community**

The School has a vibrant postgraduate community of around 100 students (full- and part-time) with a dedicated administrator who manages and advises on all postgraduate matters from admissions queries to PhD vivas, ensuring continuity for both postgraduates and staff.

Postgraduates meet regularly at the School’s Postgraduate Forum and at various voluntary seminar series organised by English or other Schools within the Faculty of Arts. The cross-fertilisation of ideas between traditional literary / theoretical research and creative writing provides a uniquely stimulating environment supporting the usual individual meetings between postgraduate students and their supervisors. You will have access to research funds to help you offset the costs of attending conferences or other research libraries, and you are also encouraged to organise postgraduate conferences here at St Andrews. With roughly 700 undergraduates, the School also offers you opportunities to gain teaching experience.

**Contact**

E:  pgeng@st-andrews.ac.uk
T:  +44 (0)1334 462668
www.st-andrews.ac.uk/english/postgraduate
The encouragement of postgraduate study is a special concern of ours, and the number of postgraduate students has grown markedly in recent years. The teaching rooms and staff offices of the School of English are housed in two nineteenth-century stone buildings, Castle House and Kennedy Hall, opposite St Andrews Castle and overlooking the sea. The School’s dedicated Centre for Research Students, 66 North Street is only a few minutes’ walk away. It offers bench rooms with PC workstations for all postgraduates, both taught and research, while shared offices with individual desks are available to research students. This lovely nineteenth-century building also has a well-used kitchen, common room and sunny garden.

The University Library has outstanding resources for research in English. The Copyright Deposit Collection contains approximately 40,000 volumes, covering the whole subject area from 1709 to 1837, and approximately 5,000 volumes of periodicals which ceased publication before 1841. Some of this material is not held in the National Library of Scotland. The collection therefore offers an impressive range of opportunities for research in eighteenth-century literature, the Scottish Enlightenment and Romanticism. The University Library subscribes to a wide variety of online databases, including JISC Historic Books for access to early printed books to 1800, and Defining Gender 1450-1910 for material supporting the School’s work in gender and sexuality studies.

The Mediaeval Renaissance research group hosts a variety of in-progress workshops, reading groups and conferences, all organised by staff and graduates in the School. In 2012-13, conference highlights include the graduate-run, ‘Bonds, Lies and Circumstances: Discourses of Renaissance Truth-Telling’ (21-23 March) and ‘Mediaevalism in the Modern World’ (25-28 June). Distinguished visiting speakers from Toronto, Cambridge and London have talked on subjects ranging from Milton and war slavery to Old English and birdsong. Publications in 2012 included Jonson’s ‘Discoveries’ in the Cambridge Edition of the Works of Ben Jonson (2012). We are part of the Folger Institute consortium, with access to the Folger’s unparalleled resources.

St Andrews is one of only three universities outside the USA in the Folger Institute consortium and this relationship has been of particular benefit to the School of English. The remit of the Folger Institute is the study of British and European literature and history from the fifteenth to the eighteenth centuries. Staff and students of the School have attended the Institute’s seminar programmes in Washington and used the outstanding collections in the Folger Shakespeare Library. Additionally, the Folger has sponsored conferences in St Andrews, organised by the School, in which postgraduates have participated and which have resulted in book publication.

Our international profile is further enhanced by involvement in editing the journals Forum for Modern Language Studies, Romanticism, The Hardy Review, the Keats-Shelley Review and the Mediaeval Journal run by The St Andrews Institute of Mediaeval Studies (SAIMS).

The School provides supervision for the research degrees of MPhil and PhD. Applications must include a description of the proposed topic of research. Research students are initially admitted under a general research ordinance, and registration for the specific degree occurs after successful completion of an Upgrade Portfolio, which is normally submitted at the beginning of June or within nine months of first registration.

You will be:

- given training in research methods through the taught modules Literary Research: Skills and Resources and Research Skills for Creative Writers.
- required to deliver seminar papers.
- offered training in undergraduate tutoring.
- offered paid undergraduate teaching where appropriate and when available.
- able to apply for funding to help with travel, attendance at conferences, and other research expenses.
- supplied with a desk space and use of computing and printing facilities.

Research Centres and Institutes

- Centre for Mediaeval and Early Modern Law and Literature
  www.st-andrews.ac.uk/cmemll
- Centre for the Study of Ancient Systems of Knowledge (LOGOS)
  www.st-andrews.ac.uk/classics/research/logos
- Renaissance and Early Modern Network
  www.st-andrews.ac.uk/~remnet
- The St Andrews Institute of Mediaeval Studies
  www.st-andrews.ac.uk/saims
- Theoria
  www.st-andrews.ac.uk/~theoria

For full details see pages 27, 28 and 30.
Eighteenth Century, Romantic and Victorian

Dr Chris Jones (already listed above)
Professor Robert Crawford
Robert.Crawford@st-andrews.ac.uk:
Scottish literature; T S Eliot; Contemporary poetry; Creative writing, especially poetry.

Dr Tom Jones (tej1@st-andrews.ac.uk):
Alexander Pope; Critical theory and practice in the eighteenth century; poetry and theories of meaning.

Dr Sara Lodge (sjl15@st-andrews.ac.uk):
Nineteenth-century literature; Comic writing; The grotesque; Children’s literature; Speechwriting.

Mr Phillip Mallett (pvm@st-andrews.ac.uk):
Literature and culture, 1830-1930; Ruskin, Hardy, Kipling; Gender, politics and the novel; Britain, India, and the novel, 1857-1947.

Dr Susan Manly (sm32@st-andrews.ac.uk):
Literature of the 1790s; Maria Edgeworth; Romantic-period children’s literature.

Professor Nicolas Roe (nhr@st-andrews.ac.uk):
Romantic literature, history, science and culture 1750-1850; William Wordsworth; Samuel Taylor Coleridge; John Keats; Leigh Hunt; Landscape and literature; Writing biography and autobiography.

Dr Jane Stabler (js102@st-andrews.ac.uk):
Romantic poetry and prose; Romantic period travel writing; Byron; Jane Austen.

Dr Emma Sutton (ess2@st-andrews.ac.uk):
Music and literature in the nineteenth and twentieth centuries; Virginia Woolf; The fin de siècle.

Modern and Contemporary

Already listed above: Professor Robert Crawford, Dr Chris Jones, Dr Emma Sutton

Dr Christina Allan (cmat7@st-andrews.ac.uk):
Modernist literature; Literature and science; Ecocriticism; Material culture studies.

Dr Lorna Burns (lmb31@st-andrews.ac.uk):
Postcolonial literatures and theory; Caribbean literature; Black British and British Asian writing; Gilles Deleuze and contemporary continental philosophy.

Dr Sarah Dillon (sjd16@st-andrews.ac.uk):
Literature and philosophy; Literary theory; Twentieth century and contemporary British fiction; Science fiction; Literature and science.

Dr Peter Mackay (pm03@st-andrews.ac.uk):
Twentieth-century and contemporary Irish and Scottish literature; legacies of Romanticism in the twentieth-century; Scottish Gaelic literature.

Dr Philip Parry (php@st-andrews.ac.uk):
Shakespeare; Theatre history; Twentieth-century drama; Theory and practice of staging.

Professor Gill Plain (gp3@st-andrews.ac.uk):
Literature and culture of the First and Second World Wars; The 1940s in Britain; Crime fiction; Popular British cinema; War and cinema; Gender studies; Feminist theory.

Professor Susan Sellers (scs2@st-andrews.ac.uk):
Virginia Woolf; Contemporary critical theory (particularly Hélène Cixous); Contemporary and twentieth-century fiction; Writers’ diaries and notebooks; Creative writing.

Creative Writing

Already listed above: Professor Robert Crawford, Professor Susan Sellers

Professor John Burnside (jb44@st-andrews.ac.uk):
Creative writing, fiction and prose non-fiction; Life writing; Contemporary American poetry and fiction; Literature and ecology; Poetry collaborations and public art.

Ms Lesley Glasier (lgg@st-andrews.ac.uk):
Creative writing, especially the novel and the short story.

Ms Zinnia Harris (zkh2@st-andrews.ac.uk):
Playwriting and screenwriting.

Professor Don Paterson (dp31@st-andrews.ac.uk):
Creative writing (poetry); Ars poética (especially cognitive, linguistic and pedagogical approaches); Twentieth-century poetry; The aphorism and very short prose forms; The translated poetic ‘version’.

Mr Jacob Polley (jpb@st-andrews.ac.uk):
Creative writing; Poetry; Contemporary American and British fiction.
Additional application materials required

All academic PhD / MPhil applicants should enclose a sample of written work of 3-5,000 words relating to the research proposal topic. In addition, all applicants should submit a Supplementary Application Form in place of a personal statement. The form may be downloaded from the website at: www.st-andrews.ac.uk/english/postgraduate/applying/documents


Funding assistance within the School

The School of English normally offers a small number of its own awards for suitably qualified applicants who have been accepted for the doctoral programme. These are open to both home/EU and Overseas students. Up-to-date information can be found at: www.st-andrews.ac.uk/english/postgraduate/funding

Recent School of English postgraduate students have succeeded in obtaining funding from a variety of external sources in order to study here, including the Carnegie Trust, the Commonwealth Scholarship and Fellowship Plan, the Ransome Trust and Rotary Foundation, the Social Sciences and Humanities Research Council of Canada and the Vinaver Trust of the International Arthurian Society, to name a few.

Details of these and other scholarship opportunities and initiatives can be found on the University’s scholarships web pages: www.st-andrews.ac.uk/scholarships

Careers

Following their course of postgraduate research, many students continue into academic careers. The Careers Centre offers one-to-one support with this process, assisting with preparing applications and improving interview technique. For more information visit: www.st-andrews.ac.uk/careers/researchers/

For those electing not to continue in academia, the Careers Centre offers a wealth of information on alternative career routes and can work with students to decide on their next step: www.st-andrews.ac.uk/careers

Please see page 24 for details of the University’s Careers Centre.
Film Studies

- The youngest department at Scotland’s oldest university.
- Ranked among the top three Film Studies departments in the UK for research (RAE 2008 – 50% of research activity was classified as 4* “world leading” and research environment was classified at 100%).
- Large postgraduate community, including PhD students from around the world.
- Growing department: new senior appointments, with leading scholars joining the programme, including Professor Robert Burgoyne (2010) and Professor Richard Dyer (2011).
- High profile reputation for research on international and transnational cinema.
- Regular contributions from high-profile visiting scholars and film critics, including Jonathan Rosenbaum (2009), Professor Robert Rosenstone (2010) and Jean Michel Frodon (2013).

Contact

E: filmstudies@st-andrews.ac.uk
T: +44 (0)1334 467473
www.st-andrews.ac.uk/filmstudies
In learning and teaching, St Andrews sets the highest of standards and attracts students from all over the world. Teaching and research are closely related and postgraduate teaching is informed by the staff’s research activity.

At St Andrews, we investigate cinema as a vital form of cultural expression, and as a medium of international exchange. The focus of our scholarship can be summarised by our research theme, the Transnational Life of Film, a theme that encompasses three clusters of analysis: representation, circulation, and preservation. Focusing on the global dimension, our programme covers key aspects of film studies through the lens of transnational cultural studies.

Formed in 2004 with the primary goal of creating a rigorous research practice in an emerging field, the Department has pioneered the study of film as a transnational form that cuts across traditional boundaries of nation, centre and periphery.

Recently we have expanded our scholarly practice in new directions, including the study of political movements and activism in film, sexuality in film, and architecture and film, while maintaining our distinctive research profile, one that is unique in the UK and has now attained international prominence. We have become a magnet for international scholars and research students working in non-mainstream cinemas, evidenced by our diverse and growing research postgraduate population and by the highly qualified group of pre- and postdoctoral researchers we attract.

Known throughout the UK for our highly engaged postgraduate research culture, our postgraduate programme is distinguished by an exceptional number of student-led initiatives, publications, and conference presentations. Our PhD students take an active role in all aspects of Department life, and contribute to the intellectual project and the reputation of the University. In addition to receiving careful and thorough research supervision, our students will emerge from the programme with teaching experience, publishing experience, and the experience of organising and running conferences and symposia. In addition, our students are encouraged and mentored in grant and fellowship applications. The environment for research among postgraduates in Film Studies is characterised by active participation in a range of professional activities.

**Postgraduate events**

Each student has the opportunity to present his or her research at the annual Postgraduate Conference in May, to which we invite a leading scholar from outside the University to respond to the students’ work. Each student reads a chapter from their thesis, and receives valuable feedback and advice. PhD students also organise and run an annual Study Day on a subject of their choice, an event that brings important scholars to the Department, such as Richard Dyer and Catherine Grant. Recent topics have included Open Access Film Studies, Ethics in Film, and Expanded Cinema. In addition to this annual Study Day, several postgraduate students have organised conferences and symposia funded by the AHRC and the Carnegie foundation. In 2011-2012, for example, our PhD students organised or helped organise conferences on History and Film, Japanese New Wave Cinema, and War and Cinema.

Our postgraduate researchers are actively engaged in publication and are given the opportunity to participate in professional activities at an early stage of research. In 2012, we began publication of the innovative Film Studies journal, *Frames Cinema Journal*. Conceived and edited by St Andrews Film Studies postgraduate students, *Frames* publishes two issues a year. Its inaugural issue focused on new forms of digital film scholarship and featured essays by several world-leading scholars. In its second issue, *Frames* published the winning essays from the annual graduate student writing awards conducted by BAFTSS, the British Association of Film, Television and Screen Studies. The journal is now the official publication of BAFTSS. The third issue featured exciting new work on promotional materials in film. It can be accessed at: [http://framescinemajournal.com](http://framescinemajournal.com)

We organise numerous events within the town of St Andrews as well, including two successful film competitions, the 60 Hour Film Blitz, and the Half Cut Student Film Festival. Both have attracted increasing numbers of participants, and have become an important part of University and town life. Our PhD students are also active contributors to the innovative heritage project, Cinema St Andrews, in which we are conducting original research on film and film culture as part of the heritage of St Andrews, from the earliest period of film history to the present. [http://cinemastandrews.org.uk](http://cinemastandrews.org.uk)
Facilities and collections

The Department is housed in two buildings on North Street. They are within easy strolling distance of the University Library, local cinema and town centre. The Department is well resourced with a dedicated teaching room. The Film Studies Postgraduate Centre houses a DVD collection, new computers, postgraduate workspaces, viewing stations and off-air recording facilities.

The rich and diverse film culture of St Andrews provides students with a number of choices. In addition to course-related screenings in our custom-built theatre, several small festivals and screening series take place across the University during the term, including films from many different national traditions. Visits by major world filmmakers are planned each year.

St Andrews has excellent library provision, with book, journal and other information resources in Film Studies at a level consistent with an international centre of excellence. The collection consists of over 5,500 books classified under Film Studies and related subjects (from a collection of over 1.2 million print monographs and 69,000 electronic books), and approximately 100 film, television and media-related journals (over 65 available electronically). The Library holds over 9,300 AV Materials. These are primarily selected to support the Department of Film Studies and in particular the DVD collection which includes films and holdings of extremely rare reference materials such as ethnographic films and documentaries by filmmakers like Frederick Wiseman and Jean Rouch.

Supervision and support

Our commitment to our students’ research success is one of the most distinctive aspects of our programme; we work closely with students to cultivate both research skills and imaginative thinking. Dedicated supervision of student writing and research is one of the hallmarks of our programme. In most cases, students will work intensively with a member of staff whose interests and expertise are aligned with theirs. Together, the student and advisor will shape the proposed thesis into a rigorous, innovative work of scholarly significance. We also encourage students to take advantage of the many tutorials on research methods that are provided by the University.

Beyond the writing of the thesis, professional development is a critically important part of doctoral training, and we strive to give students the most up to date and practical information concerning their careers. Students are groomed in resume writing, the writing of cover letters, and the preparation of writing samples. In addition, our students have opportunities throughout the year to meet and speak with leading academics in an informal setting, with bi-weekly visits to the Department by scholars from outside the University. Students also gain valuable experience in classroom teaching, working in close partnership with members of staff.

Research Centre

- Centre For Film Studies (CFS)
  www.st-andrews.ac.uk/filmstudies/cfs

For full details see page 28.

Right: Orson Welles with fellow actor Joseph Cotten in Citizen Kane
Research areas

For more information please visit our web pages at:
www.st-andrews.ac.uk/filmstudies/staff

Our three research clusters, Representation, Circulation, and Preservation have each developed exciting new projects that present excellent opportunities for postgraduate research participation and professional development.

- In Representation, Professor Robert Burgoyne is initiating a large research project on War and Cinema that will bring scholars from around the world to St Andrews for symposia, screenings, and lectures. Professor Dina Iordanova has begun a new project on Revolution in Film and Post-communist Film Culture, supported by publications, symposia and conferences.

- In the research area of Circulation, Professor Iordanova is publishing a major research series entitled The Film Festivals Yearbooks, with six Yearbooks already published. This widely influential series will continue to create publishing opportunities and conference opportunities for our PhD students. Professor Iordanova was awarded a Leverhulme Foundation grant of £241,000 in support of this project.

- And in the research area of Preservation, Dr Tom Rice and Dr Joshua Yumibe have developed the innovative Cinema St Andrews digital archive, a pathbreaking project that looks at the film history of St Andrews as a form of heritage, one that extends from the earliest years of cinema to the present day. Dr Yumibe has also begun an international project on Colour Film in the 1920s, a project that has been funded by a Leverhulme Foundation grant of £246,000.

Professor R Burgoyne (rjb21@st-andrews.ac.uk)
Historical representation and film; Epic film as a transnational and national genre; The war film, with a special focus on embodiment and generational memory; The transit among Hollywood and various world cinemas; New approaches to film genre. Publications include: The Hollywood Historical Film, Film Nation: Hollywood Looks at US History: Original and Revised Edition, The Epic Film in World Culture, New Vocabularies in Film Semiotics, Bertolucci’s 1900: A Narrative and Historical Analysis.

Professor R Dyer (rwd4@st-andrews.ac.uk)

Professor D Iordanova (di1@st-andrews.ac.uk)
Film in its socio-historical, discursive, and media context; Issues of comparative critical analysis of representations of history, cultural sensibilities, and diverse identities; Beyond the confines of concrete national cinematic traditions; Film festivals and transnational cinema; Lesser-known aspects of the transnational distribution of non-Hollywood cinema; Publications include: Cinema of Flames: Balkan Film, Culture and the Media, Emir Kusturica, Cinema of the Other Europe: The Industry and Artistry of East Central European Film, Cinema at the Periphery, Moving People/Moving Images, Digital Disruption: Cinema Moves On-line.

Dr E Girelli (egs1@st-andrews.ac.uk)
The representation of identity on screen, specifically in terms of sexuality, gender, and nationality; Queer theory, crip theory, and theories of representation and in their application to filmic texts and personalities; The study of individual stars and auteurs; Issues of space and place in film; British and European cinemas; The representation of Italianness in British film history; Transnational and orientalist issues in the work of the Turkish/Italian director Ferzan Ozpetek. Publications include: Montgomery Clift: Queer Star Subverting space: Private, Public and Power in Three Czechoslovak Films from the 1960s; Beauty and the Beast: Italianness in British Cinema.
Dr D Hanlon (dhj22@st-andrews.ac.uk)
Latin American, South Asian, and European (especially German) cinemas; Third Cinema and other politically-committed film movements; Transnational film and transnational film theory; Transcultural adaptations; World-Systems Theory and cinema; Contemporary South Asian and East Asian genre cinema; Ethnographic cinema and indigenous video. Publications include: Traveling Theory, Shots, and Players; Jorge Sanjines, New Latin American Cinema, and the European Art Cinema, From Taking to Making Images of Indigeneity; Reading the Films of the Ukamau Group Ethnographically. Detachable Transnational Film Style and the Global-Local Dialectic in Mani Ratnam's, Indian Adaptations of Amores perros.

Dr B Jacobson (brj2@st-andrews.ac.uk)
History and theory of moving image media; History and philosophy of technology, and art and architectural history; Avant-garde, experimental, and industrial cinema; Theories of space and place; Representations of nature and technology. Publications include: The "Imponderable Fluidity" of Modernity: Georges Méliès and the Architectural Origins of Cinema, The Black Maria: Film Studio, Film Technology (Cinema and the History of Technology); A Business Without a Future?: The Parisian Video-Club, Past and Present.

Dr T Rice (twtr@st-andrews.ac.uk)
Film history; The complex relationship between political and cultural movements and cinema; Non-canonical forms of film and film culture, most notably non-theatrical production, distribution and exhibition; Early American cinema; The interconnection between cinema, modernity and conservative forces in the USA in the 1920s; British colonial, world and transnational cinemas; Didactic and non-theatrical film practices; The emergence of cinema cultures in colonised and post-colonialism territories. Publications include: Exhibiting Africa: British Instructional Films and the Empire Series (1925-8); From the Inside: The Colonial Film Unit and the Beginning of the End, Protecting Protestantism. The Ku Klux Klan vs. The Motion Picture Industry.

Dr L Torchin (lt40@st-andrews.ac.uk)
The ways that film, video, and internet technologies bear witness to human rights abuses and genocide with attention to ways these media are used to political effect; The role of film festivals in social justice movements and campaigns; Film and human trafficking; The role of film and transmedia campaigns in the promotion of economic justice and a popular understanding of economic rights; Genocide on film, history and memory, documentary, and film tourism. Publications include: Creating the Witness: Documenting Genocide in the Age of Film, Video, and the Internet, Anne Frank's Moving Images, Film Festivals and Activism.

Dr J Yumibe (jy20@st-andrews.ac.uk)
The aesthetic and technological history of cinema; Early colour cinema in relation to the cultural and aesthetic horizon of modernism and modernity; Aesthetic colouring practices that weave both through mass cultural applications of colour in commodity production and into modernist theories and abstract experiments with colour; Silent cinema history and historiography; Technology, intermedial practices, and aesthetics, Avant-garde and experimental cinemas; Archival theories and practices; Film theory, in particular classical and Frankfurt school theory. Publications include: Moving Color: Early Film, Mass Culture, Modernism, Film and Attraction: From Kinetography to Cinema, Visual Diplomacy: Projections of Power from the Field in Ethiopia.

J-M Frodon (jmf9@st-andrews.ac.uk)
Film history; Film criticism; Film festivals. Publications include: Cinema and the Shoah; Le Cinéma français, de la Nouvelle Vague à nos jours; La Projection nationale.
Application process for Film Studies

Further information and an online form can be found on the Postgraduate Recruitment web pages:
www.st-andrews.ac.uk/admissions/pg/apply

Film Studies applicants must also complete and return the separate departmental admissions form at:
www.st-andrews.ac.uk/admissions/pg/apply/forms

Applications are reviewed throughout the academic year; however if you wish to apply for funding and/or University accommodation, there are deadlines of which you need to be aware.

1) The call for scholarship applications closes by March 15 of each year.

2) Any student wishing to be considered for University accommodation needs to apply by 30 June.

Departmental funding for research in Film Studies

The Department of Film Studies regularly offers a range of full scholarships and/or fee-waiver scholarships for doctoral study each year, by competition up to three years’ duration. Scholarships are equivalent to the value of the home fee and are available to UK/EU and overseas students. Scholarships may also include maintenance funding. Scholarships are only available to students who have already been accepted for a place in the Department of Film Studies. As these funds are awarded by competition, please make sure to indicate on your application that you would like to be considered for scholarships. The call for scholarship applications closes by mid-April each year. Please note that decisions on admission to the programme and funding are made independently.

Teaching assistantships with the first and second year undergraduate courses may also be available to PhD students and provide a useful source of support, typically in the second and third year of study.

For the latest information see the dedicated Postgraduate Funding page on our Department of Film Studies web pages:
www.st-andrews.ac.uk/filmstudies/funding

Careers

In our media saturated culture, the opportunities for Film Studies graduates are remarkably diverse. Directly related are careers in academia, creative industries, development, distribution, film festival/cinema programming and arts administration. A Film Studies degree opens doors to many other spheres, including media management, film and TV research, journalism, publishing, advertising, cultural entrepreneurship, non-governmental organisations, marketing, public relations and education.

Please see page 24 for details of the University’s Careers Centre.
Geography

The Department of Geography & Sustainable Development (DGSD) is a constituent department in the School of Geography & Geosciences. DGSD has 27 full-time academic staff, 3 teaching fellows, 14 support staff, 15 postdoctoral research fellows and 30 research postgraduate students.

- We admit up to 10 research postgraduates (PhD) and approximately 30 taught postgraduates (MSc/MRes) each year.
- DGSD offers a wide range of expertise, with particular strengths in population and health geography; housing, neighbourhoods and cities; governance, place and power; environmental geography; sustainable development; and geoinformatics.
- We emphasise a range of different skills training, producing highly literate and numerate graduates with excellent employment prospects.
- We have excellent in-house laboratory, IT and field resources for teaching and research. The Facility for Earth and Environmental Analysis (FEEA) brings together specialised laboratories for the use of staff and postgraduate research students.
- We promote collaborate research with other universities and institutions, including policy-relevant research with partner organisations.
- We encourage interdisciplinary research through our research centres.
- A new Centre for Geoinformatics opened in 2012.

(See also Earth & Environmental Sciences page 60 and Sustainable Development page 126)

Contact

E: ggpg@st-andrews.ac.uk
T: +44 (0)1334 462894
www.st-andrews.ac.uk/gg/prospective

Research Centres and Institutes

DGSD has an international reputation for research excellence and attracts major funding from UK research councils and other bodies such as the Wellcome Trust, Leverhulme Trust, the EU, Joseph Rowntree Foundation, and Scottish Natural Heritage. It hosts a number of research centres, which provide a specialist focus for staff and postgraduate research activities.

- The Longitudinal Studies Centre – Scotland (LSCS) manages the Scottish Longitudinal Study dataset and is involved in strategic demographic, socioeconomic and health research.
- The Administrative Data Liaison Service (ADLS) offers in-house advice on access to administrative data for social science research.
- The ESRC Centre for Population Change (CPC) carries out a varied programme of collaborative research on fertility and family formation, household change, migration, and population modelling.
- The Centre for Housing Research (CHR) conducts policy-relevant research on social and supported housing, both independently and in conjunction with public and voluntary housing agencies.
- The Centre for Geoinformatics (CGI) specialises in the collection, processing, analysis and display of large spatial data sets.
- The Scottish Alliance for Geosciences, Environment and Society (SAGES) pools world-leading expertise in geoscience and environmental science from across Scotland’s research base.
- The St Andrews Sustainability Institute (SASI) co-ordinates interdisciplinary research into sustainable development issues within the University.
- The Social Dimensions of Health Institute (SDHI) is a joint venture with the University of Dundee and specialises in interdisciplinary health research.
- The School is a partner in the Scottish Oceans Institute (SOI), an interdisciplinary research institute studying the marine environment.

For full details see pages 28 and 29.
Entering the Department of Geography & Sustainable Development, you will be joining an active, vibrant and expanding research community. We offer research degrees in both Geography and Sustainable Development. We have excellent facilities for conducting a wide range of quantitative, qualitative, mixed-methods and laboratory-based research. Postgraduate researchers benefit from being members of research clusters where they can exchange ideas with other researchers in their field. DGSD also has links with several other Schools across the University, as well as with other UK Universities. Research is conducted in many areas of the world including the UK, Eastern and Western Europe, North America, Australia, South-East Asia and Southern Africa. We are also involved in the public policy arena, producing advisory reports for key public institutions.

Research on HIV/AIDS in Zimbabwe

We have a variety of data-logging equipment suitable for library and archive use. Excellent GIS hardware and software (ArcView, ArcInfo, MapInfo) resources are available with good access to census information, Ordnance Survey and other digital databases. DGSD has safe setting facilities for the analysis of restricted and sensitive data, and there is a wide range of software available for both quantitative and qualitative data analysis (e.g. NVivo, SPSS, Stata, MLn, Minitab, SpaceStat plus database management and spreadsheet packages).

The Facility for Earth and Environmental Analysis (FEEA) (www.st-andrews.ac.uk/gsd/research/fee)a houses the suite of laboratory instrumentation and field equipment that underpins physical science research by staff and students (http://earthsci.st-andrews.ac.uk/fee). The FEEA allows researchers to undertake geological, geophysical and environmental field investigations around the world. Research is supported by an impressive array of equipment and computing facilities, laboratories, support staff, research vehicles and vessels.

Cartographic services are provided via state-of-the-art computer technology, graphics software, high specification PCs, scanners, digitiser and printers are all available in-house.

Research postgraduates are allocated desk space in one of the postgraduate rooms, along with a dedicated desk-top computer. Laptops are available for use in the field.

Fieldwork in Norway

All PhD and MPhil research students have a supervisory team usually comprising a principal supervisor and a second supervisor, although if you are working with organisations outside the University you may have additional supervisors. You will pursue a programme of work agreed with your supervisor/s. This is designed around your needs and will include both general and specialist skills training. You may also attend interdisciplinary courses in the social sciences, or other courses in the core area of your research. Once a year you will present your work at an annual Research Postgraduate Conference, and your progress will be reviewed by the School Postgraduate Committee. For the PhD, work must be of sufficient quality to gain a satisfactory progress report and proceed to the next year of the three-year degree programme. Full-time postgraduate students must submit their PhD thesis within four years of entering the programme. For the MPhil, students will normally submit their dissertation within two years.
Research areas

Staff members are listed under their main research area but many have research interests that stretch across two or more of the major research themes in DGSD.

Population and Health
Research is focused on the dynamics of population change, new migrations and mobilities, and health inequalities, especially in the UK but also in the rest of Europe and internationally.

Dr C Dibben (cjcd@st-andrews.ac.uk)  
Social inequality; Population; Health.

Professor A Findlay (allan.m.findlay@st-andrews.ac.uk)  
Head of School; International migration; Human mobility; Population geography.

Dr Z Feng (zf2@st-andrews.ac.uk)  
Population and health geography; Quantitative methods.

Professor E Graham (efg@st-andrews.ac.uk)  
Population; Migration; Health and well-being; Mixed-methods; South-East Asia.

Dr D McCollum (dm82@st-andrews.ac.uk)  
Migration; Labour markets and welfare.

Dr C Wilson (ccbw@st-andrews.ac.uk)  
Population and demography.

Housing, Neighbourhoods and Cities
Key areas of interest include: the functioning and policies of housing systems, social housing and homelessness, neighbourhood effects, housing and sustainability, and cities.

Dr D Houston (dsd7@st-andrews.ac.uk)  
Labour market restructuring; Welfare reform; Urban sustainability.

Professor D Maclellan (dm103@st-andrews.ac.uk)  
Urban geography; Housing; Social welfare.

Dr K McKee (km410@st-andrews.ac.uk)  
Housing policy; Urban regeneration strategy.

Dr D Reuschke (dr35@st-andrews.ac.uk)  
Enterpreneurship and small firms; Labour markets and self-employment; Housing.

Governance, Place and Power
Informed by post-structuralist, post-colonial and feminist perspectives, research explores geographies of difference across a range of spatial scales.

Dr D Clayton (dw3c@st-andrews.ac.uk)  
Historical & cultural geography; Colonialism and post-colonialism.

Dr M Kesby (mgk@st-andrews.ac.uk)  
Gender; AIDS and development in Southern Africa.

Dr M Sothern (mbis1@st-andrews.ac.uk)  
Health; Cultural and political geographies.

Environmental Geography
Research examines the mechanisms, rates and trajectories of past, present and future environmental change at regional to global scales, and the implications for the biosphere and society.

Dr B Austin (wena@st-andrews.ac.uk)  
Palaeoceanography and climate change; Marine geology; Micropalaeontology.

Professor C Ballantyne (ckb@st-andrews.ac.uk)  
Geomorphology and Quaternary research.

Professor D Benn (Doug@st-andrews.ac.uk)  
Glacial geomorphology; Sedimentology; Glaciology.

Dr A Davies (ald7@st-andrews.ac.uk)  
Long-term ecology, environmental archaeology; Environmental management.

Dr R Streeter (email tbc)  
Tephrochronology; Soil erosion; Long-term human-environment interactions.

Dr C Warren (crw2@st-andrews.ac.uk)  
Glaciology; Glacial geomorphology; Resource management.

Environment and Society
Research focuses on interdependencies, including meanings and practices of sustainable development, to explore new avenues of enquiry into relations between society and environment.

Dr E Ferraro (ef21@st-andrews.ac.uk)  
Culture in sustainable development; Indigenous cosmologies; Ways of knowing; Craft and sustainable development.

Professor C Hunter (ch69@st-andrews.ac.uk)  
Sustainable tourism; Pro-environment behaviour; Well-being; Interactions with nature.

Dr D McCauley (dam7@st-andrews.ac.uk)  
Energy justice; Social movements; Comparative policy.

Dr L Reid (lar9@st-andrews.ac.uk)  
Environmental behaviour; Household energy consumption; Subjective well-being; Diary methodology.

Dr T Stojanovic (tas21@st-andrews.ac.uk)  
Marine and coastal management; Governance and sustainable development; Environmental geography.

Dr R White (rwm11@st-andrews.ac.uk)  
Biodiversity conflicts; Education for sustainability; Craft and sustainability.

Geoinformatics
Research involves the capture, manipulation, visualisation and analysis of all types of geographical data, using GIS and other technologies, to improve understanding of spatial processes and inform decisions.

Dr U Demsar (urska.demsar@st-andrews.ac.uk)  
Geovisual analytics and geovisualisation; Spatial analysis; Mathematical modelling.

Professor A S Fotheringham (asf7@st-andrews.ac.uk)  
GIS, spatial data analysis, mathematical modelling of movement.

Dr J Long (jed.long@st-andrews.ac.uk)  
Spatial statistics; GIS; Spatial technologies.
Geomorphological mapping in the NW Highlands of Scotland

Funding your research

DGSD is able to offer some or all of the following awards to suitably qualified applicants who in September 2014 will begin a programme of research at the University of St Andrews:

- NERC Research Studentships available to UK and EU applicants studying for a PhD in environmental geography. These provide fees and (for UK students) a maintenance grant for up to three and a half years.
- ESRC Research Studentships available to UK and EU applicants studying for a PhD in the social sciences. These provide fees and (for UK students) a maintenance grant for three or four years.
- Up to six fully or partly funded PhD scholarships open to UK, EU and international students. The fully funded scholarships cover maintenance and home fees. (International students will have to find the difference between home and overseas fees from other sources). The partly funded scholarships offer a minimum of 50% of maintenance and home fees.

Various other awards, usually tied to a specific project or sponsored by an external organisation or company, are published on the DGSD web pages from time to time. Applicants for awards must follow the procedures guidelines and deadline timetable set out in our application packs and on our web pages. www.st-andrews.ac.uk/gsd/opportunities/pg/

In addition, partial studentship support may be available to cover the costs of fees for self-funded postgraduate students, and we welcome applications from self-funded graduates who wish to undertake a postgraduate degree on a full- or part-time basis. There are also opportunities to earn some support through demonstrating and other forms of undergraduate teaching.

Information about awards from the AHRC can be found on the University’s scholarships web page: www.st-andrews.ac.uk/scholarships

Conference funding

During your PhD programme studies, you are encouraged to present your work at international and national conferences. Funding is available within the School towards the costs of conference attendance.

Please see page 24 for details of the University’s Careers Centre.

We see postgraduate study as part of your long-term career development. We are here to offer advice and also support you in the development of your career, as is the University’s Careers Centre. There are opportunities for postgraduates to run tutorials, practical demonstrations and other academic work to gain experience of working in an academic context. Others gain practical experience working with companies and governmental organisations. Recent postgraduates have obtained postdoctoral and lecturing positions in leading universities around the world, while others have taken up jobs in, for example, environmental management, market research and health research.

BREAKING NEWS

- Longitudinal Studies Centre – Scotland
  LSCS wins £2.5m from the ESRC to document all births, marriages and deaths in Scotland over the last 150 years, allowing, for the first time, very detailed exploration of Scotland’s changing population.
- Marine Climate Change during the last millennium
  Researchers from St Andrews, funded through the €12.6m EU FP VI project Millennium, publish the first marine composite record of climate change spanning the last millennium.
- ESRC Centre for Population Change
  CPC wins a £6m award from the ESRC to continue its research programme for a further five years from January 2014.

For more see: www.st-andrews.ac.uk/gsd/news
• Nearly 50 committed teaching staff participating actively in innovative research in their respective fields.
• A postgraduate community of around 100 students, drawn from the UK and across the world.
• A friendly and collegial atmosphere in which you will fully participate.
• Dedicated workspaces, usually, within the School of History.
• A library with a major collection of printed and electronic resources for historical research which is continually enhanced by new acquisitions, including items recommended by staff and research students.
• An historic and highly attractive setting in the heart of the medieval town of St Andrews.
• Strong commitment to providing skills training (including languages) and teaching experience to enhance your employability. Many PhD students are offered the opportunity to tutor on first or second year undergraduate modules under the supervision and guidance of a module co-ordinator.
• PhD students are assigned allowances by the School towards research expenses and are given the opportunity to bid for funding to organise conferences.
• International exchanges: the School has regular exchanges for research students with universities overseas, including Germany, Italy, and Ireland, allowing you the opportunity to spend three or six months studying abroad.
• As well as providing language training throughout the degree, the School offers up to six language bursaries each to incoming postgraduates wishing to develop skills which will be essential to their research (they also fund attendance at an intensive language course before starting the degree).
• Social events run throughout the year including a Welcome Reception, parties organised by different Departments, Centres and Institutes and at graduation. You may also participate in annual Reading Parties and will regularly enjoy the opportunity to discuss your work with visiting speakers at social events after seminars.

Contact
E: pghist@st-andrews.ac.uk
T: +44 (0)1334 462907
www.st-andrews.ac.uk/history/pgprog
The University of St Andrews is one of the World’s top 50 Arts and Humanities universities and home to a major centre for postgraduate historical study. Situated in the beautiful coastal town of St Andrews, with its mediaeval castle and cathedral, the University is Scotland’s first, dating from the early fifteenth century, the third founded in the English-speaking world.

The School of History has well over 40 academic members whose combined specialist interests cover a vast geographical area and chronological range. Building on excellence in individual research, the School has particular groupings of expertise in the Mediaeval, Early Modern and Modern periods, including Middle Eastern, and Reformation History and with particular strengths in British, Continental European, US, Environmental, and Transnational/Global history. As befits Scotland’s oldest university, the School is also a leading centre of Scottish historical research.

- The School of History occupies three sites all within a few minutes walk of each other and the University Library and all in the heart of the historic town of St Andrews:
  - On tree-lined South Street and close to the ruins of the Cathedral, most Mediaevalists and Reformation Studies colleagues are based in a charming seventeenth-century town house and the adjoining mediaeval residence of the Hospitallers.
  - St Katharine’s Lodge on The Scores, which houses Modern and Scottish History, is a nineteenth-century former school (attended by Field Marshall Earl Haig), close to St Andrews Castle and the magnificent West Sands beach.
  - Middle Eastern History is in the Arts Building, which opened in 2006, with elegant new teaching and workspaces.

- The University Library houses extensive collections for use in historical study, including outstanding Special Collections, and continues to make substantial investment in materials, including electronic resources, each year.

- Computer facilities are readily available.

- You will be assigned a workspace, normally in the building appropriate to your area of expertise, so that you can easily participate in the academic and social life of the community.

Return to Contents
Supervision and support

Some 50 PhD theses are being written by postgraduate students in the School of History at any one time. Many of these students have been attracted to St Andrews by their wish to be supervised by a certain member of staff, often a leading authority in the field; others come to take a one-year degree and then continue into the PhD programme. The research interests within the School range from sixth-century Scotland to Iran in the early twenty-first century (and innumerable other places in between). You will devise independent research projects, which you develop with the regular advice of your supervisor, culminating in the submission of an 80,000-word thesis.

While in St Andrews, PhD students are full members of the School of History, and are encouraged to participate actively in the intellectual activities of the academic community such as seminars, workshops and conferences. The School is also keen to promote the future careers of its students, and a good number of former doctoral students are now in academic posts. In addition to fostering our students’ contact with other universities abroad, the School offers many of its postgraduates the opportunity to lead undergraduate tutorials, providing both training and feedback.

Research Centres and Institutes

The School of History at St Andrews also hosts or plays a major role in a number of centres and institutes within which postgraduate students are often very active. These organise regular seminar series, addressed by invited speakers and St Andrews historians. The centres and institutes often sponsor conferences and workshops as well as publication series and journals, and provide a home for visiting academics and graduate students. They also often provide a friendly environment in which postgraduate students can present their research before audiences of their peers.

www.st-andrews.ac.uk/history/research/researchinst

- Institute for Environmental History
- Centre for French History and Culture
- Institute of Iranian Studies
- The St Andrews Institute of Mediaeval Studies
- Centre for Mediaeval and Early Modern Law and Literature
- Institute of Middle East, Central Asia and Caucasus Studies
- St Andrews Reformation Studies Institute
- Centre for Russian, Soviet and Central and Eastern European Studies
- Institute of Scottish Historical Research
- Centre for Transnational History

For full details see pages 29 and 30.
Mediaeval History

Professor F Andrews (fea@st-andrews.ac.uk): Late mediaeval Europe, in particular Italy; Ecclesiastical and religious history.

Professor R J Bartlett (jpb1@st-andrews.ac.uk): England, 1066-1300; Cult of the saints; Frontiers.

Dr M Brown (mhb@st-andrews.ac.uk): Political society of Scotland c.1250-c.1500 and the relationships between the various communities of the British Isles during the same period.

Dr R Cox (rwscc@st-andrews.ac.uk): Late mediaeval intellectual history; Military history; History of heresy.

Dr J Firnhaber-Baker (jmfjb@st-andrews.ac.uk): Late Mediaeval France.

Dr T Greenwood (twg3@st-andrews.ac.uk): Mediaeval Byzantium and the Near East (sixth to eleventh centuries) with particular interest in the Caucasus and Sasanian Persia.

Professor J Hudson (ghhh@st-andrews.ac.uk): Ninth- to thirteenth-century England and France, in particular the fields of law, lordship, and literature.

Dr D Kastritis (dik19@st-andrews.ac.uk): The political, cultural, and intellectual history of the fourteenth- and fifteenth-century Ottoman world; chronicles and intellectuals.

Professor S MacLean (sm89@st-andrews.ac.uk): Early mediaeval Europe (eighth to eleventh centuries); in particular the political, social and cultural history of the Carolingian Empire and its successor kingdoms; The Vikings: Kingship and queenship (Professor MacLean is the Director of the St Andrews Institute of Mediaeval Studies).

Dr J Palmer (jtp21@st-andrews.ac.uk): Early Mediaeval Europe (sixth to ninth centuries) – in particular the cultural and political history of the Merovingian and Carolingian kingdoms; Anglo-Saxon England; Barbarians and Vikings; Saints' cults and hagiography; Apocalypticism.

Dr A Peacock (acsap@st-andrews.ac.uk): Mediaeval and early modern Middle Eastern and Islamic history, especially the history of Iran, Anatolia, the Caucasus and Central Asia up to the seventeenth century; Arabic and Persian historiography and manuscripts; History of the Indian Ocean region.

Dr A Stewart (ads@st-andrews.ac.uk): The eastern Mediterranean world in the age of the Crusades (c. 1000-1350).

Dr K Stevenson (kcs7@st-andrews.ac.uk): Late mediaeval Scotland, in particular aristocratic and courtly culture in the fifteenth century in both Scotland and late mediaeval Europe.

Dr A Woolf (aw40@st-andrews.ac.uk): Early insular History, c.550-1050.

Early Modern History

Dr E Hart (efh2@st-andrews.ac.uk): Colonial British American history.

Dr B Heal (bmh6@st-andrews.ac.uk): European (especially German) religious and social history c.1450-1700, in particular the visual culture of the Reformation and Counter-Reformation and women's history.

Professor C Kidd (cck3@st-andrews.ac.uk): Early Modern and Modern Intellectual History (broadly defined, including Literature, Anthropology, Law and Church History); Constitutional Theory; Modern Scottish History; Racial, National and Ethnic Identities.

Dr W Knox (wkk@st-andrews.ac.uk): Scottish history from 1707 to the 1990s.

Professor R A Houston (rah@st-andrews.ac.uk): Scottish and English social history c.1450-1850.

Professor R Mason (ram@st-andrews.ac.uk): Political thought and culture in late mediaeval and early modern Scotland and Britain (Professor Mason is Director of the Institute of Scottish Historical Research).

Dr E Michelson (edm21@st-andrews.ac.uk): Early Modern Europe, with particular emphasis on Renaissance and sixteenth-century Italy, the history of the book, and Italian religious culture in the Reformation period.

Professor S Murdoch (sm117@st-andrews.ac.uk): Scottish and British relations with Scandinavia and Northern Europe 1560-1750; Scottish Maritime History; European contacts with Asia c. 1500-1750.

Professor A Pettigree (admp@st-andrews.ac.uk): Reformation history, the history of communication, and especially the history of the book.

Dr J Rose (jer9@st-andrews.ac.uk): Early modern British history, in particular religion and monarchy in England from c.1500 to c.1700.

Dr G Rowlands (gr30@st-andrews.ac.uk): Late seventeenth- and eighteenth-century French history, with particular interest in military and financial history and European international and transnational relations.
Modern History

Dr D Allan (da2@st-andrews.ac.uk): Scottish, British and European history 1500-1900, with particular interest in cultural and intellectual history, historiography, the history of ideas and political thought.

Professor A Ansari (aa51@st-andrews.ac.uk): Development of the State in the modern Middle East; Ideology, myth and nation building; Social and Intellectual history; Islam and the West.

Dr R Bavaj (rbfjb@st-andrews.ac.uk): Modern European history, with a focus on twentieth-century Germany, and on intellectual and spatial history, radicalism, liberalism, modernity and ‘the West’, and responses to ‘1968’.

Dr J Clark (jfc2@st-andrews.ac.uk): Nineteenth- and twentieth-century British and North American history; Environmental history; The historiography of natural history; Comparative psychology; Gender and science; History of medicine. (Dr Clark is Director of the Institute for Environmental History.)

Professor G De Groot (gdjg@st-andrews.ac.uk): Twentieth-century British and American history, including the Atom Bomb; The 1960s; The effects of war.

Dr S Easterby-Smith (ses22@st-andrews.ac.uk): Science, society, culture and global connections and transnational links between France, Britain and the wider world in the eighteenth century.

Dr K Ferris (k50@st-andrews.ac.uk) Modern European history, with a focus on Italy and Spain from the late-nineteenth- to the mid-twentieth century; The history of everyday life and the ‘lived experience’ of dictatorship.

Dr A Fyfe (af5@st-andrews.ac.uk): British cultural history in the late eighteenth and nineteenth centuries, with particular emphases on science and technology, religion, the book trade and children’s literature.

Dr T Kamusella (tdk2@st-andrews.ac.uk): Comparative history of politics and language in modern Central Europe.

Dr C Kaul (ck24@st-andrews.ac.uk): British Imperialism and Print Culture in the nineteenth and twentieth centuries; Modern South Asia, especially Indian history and politics; British media and popular culture including contemporary media; Globalisation and transnational communications.

Professor C Kidd (ckk3@st-andrews.ac.uk): Details above under Early Modern History.

Dr K Lawson (email tbc): East Asian Studies (especially Japan); Human rights, international law and the status of minorities in the twentieth century.

Dr G Mitchell (gamm2@st-andrews.ac.uk): Post-1945 Popular Music in the United States, Britain and Canada.

Professor F L Müller (flm3@st-andrews.ac.uk): European history from 1815 to the Second World War; Political and cultural history of Germany and Britain; Nationalism, liberalism, imperialism, militarism, foreign policy, biography and the role of monarchy throughout the nineteenth century.

Dr F Nethercott (fn4@st-andrews.ac.uk): Russian nineteenth- and twentieth-century intellectual history with a particular focus on the dynamics of ‘cultural transfer’ across France, Germany and Russia; Russian historiography from the late-eighteenth century to the present.

Dr J Nott (jn4@st-andrews.ac.uk): Twentieth-century British Social and Cultural History; Popular Culture and Leisure (esp. music, dance halls); History of Mass Media (cinema, radio, gramophone); The British Film Industry; The BBC, Class and Culture; Interwar Britain; Second World War Home Front.

Dr B Struck (bs50@st-andrews.ac.uk): Eighteenth- and nineteenth-century European history, especially Germany, France and Poland; the Enlightenment; Travel and travel writing; Cartography and science in the nineteenth century; Representation of space and conceptions of borders; Transnational and comparative history.

Dr S Tyre (st29@st-andrews.ac.uk): Algerian war of independence; French colonial policies in the twentieth century; French decolonisation, and the legacy and memory of empire in France.

Professor R Whatmore (email tbc): Early Modern and Modern Intellectual History (including Politics, International Relations, Political Economy and Religion); Theories of Empire, Democracy and War; Enlightenment, Revolution and the Idea of Europe.

Dr A Yechury (email tbc): South Asian Studies; Comparative and global history in the nineteenth and twentieth centuries; Imperialism; The French in India.

Middle Eastern History

(Staff research interests are listed above)

Professor A Ansari
Dr T Greenwood
Dr D Kastritis
Dr A Peacock
Dr A Stewart

Scottish History

(Staff research interests are listed above)

Dr D Allan
Dr M Brown
Professor C Kidd
Dr W Knox
Professor R Mason
Professor S Murdoch
Dr K Stevenson
Dr A Woolf

Within these broad areas we have particular specialisms in:

Arts Building

South Street Building
Specific funding available

- Competitive scholarships and bursaries support postgraduates financially.
- All History postgraduates at St Andrews receive annual financial assistance from the School of History to subsidise research expenses.
- You can apply for material support for the organisation of conferences and seminars; this has in the past led to very successful events and subsequent publication.

The School of History has a strong tradition of securing the prestigious Arts and Humanities Research Council Awards for Doctoral Scholarships. The success of our bids reflects considerable external confidence in the School, its academic standards, resources, and the quality of the training offered. For details of how to apply for one of these awards (and a number of alternative opportunities) please see: [www.st-andrews.ac.uk/history/postgrad/postgrad.html](http://www.st-andrews.ac.uk/history/postgrad/postgrad.html)

For information on other funding opportunities within the School of History see: [www.st-andrews.ac.uk/history/postgrad/postgradfunding.htm](http://www.st-andrews.ac.uk/history/postgrad/postgradfunding.htm)

Careers

Large numbers of students who completed their doctoral studies in History are now in academic posts in the UK, North America or further afield. Others have pursued careers where their historical training is particularly pertinent, working in archives, libraries, or schools. Still others have applied the skills acquired during their doctoral studies to work in new areas, from research strategy analysis to communications departments, teaching to journalism.

Please see page 24 for details of the University’s Careers Centre.
International Relations

- The School of International Relations is the only one of its kind in Scotland and one of the few that exists in the UK. There are over 30 academic members of staff in the School.
- There is a large and vibrant postgraduate community, with around 100 taught postgraduate and 80 research students in any year, many from overseas, as are several staff members.
- We have an established reputation throughout the world for high-quality teaching and research.
- Our research is recognised internationally for its contribution to a wide range of issues in international relations and regional studies, as indicated by the UK's 2008 Research Assessment Exercise.
- We have specialist areas in international security, terrorism studies, peace and conflict, international theory, international institutions, and regional studies including the Middle East, Central Asia and Africa.

Research community

International Relations has been taught at the University for 25 years; a Department was created in 1990, which became a School in its own right in 2003. We are located at the centre of the University, occupying a purpose-built building which opened in 2007.

International Relations is a distinct discipline that draws on diplomatic history, political theory, political economy, political science and international law to provide theoretical perspectives to explain the processes and patterns of international affairs in the modern world. This enables you to assess developments in the international system and specific geographic regions. You will explore issues such as the origins of war and peace, foreign policy making, international trade, international terrorism, human rights, international organisations, international law and the interaction of political and economic development. You also analyse the ways in which states relate to other international actors and develop normative theories that relate the world as it is to the world as it might be. All of these have practical applications for you as both citizen and as potential decision maker.

A vibrant and diverse postgraduate research community is integral to the School's research culture. Approximately 80 MPhil and PhD students make a significant and valuable contribution to the intellectual life of the School, pursuing research that brings a distinctive multi- and inter-disciplinary perspective to the study of international politics. The School's strong research environment is also evident in a wealth of events and activities. These include a School-wide seminar series that brings major academic figures to St Andrews, three other seminar series hosted by specialist Centres within the School, occasional conferences, and many other less formal events held throughout the year. Research students also organise their own seminar series, which allows them to present work in-progress with their peers and staff. A number of academic journals are edited by members of the School as well.

Contact

E: irpg@st-andrews.ac.uk
T: +44 (0)1334 462945
www.st-andrews.ac.uk/intrel
Supervision and support

Topics for research are related to the research interests of members of the School. You will be assigned to supervisors, who will meet with you regularly and review your progress. You also receive compulsory training in research methods and issues during your first semester through the School’s taught module, IR5601: Research in International Relations.

Recent graduates have produced theses on the UN and climate change politics, Thomas Hobbes and sovereignty, radicalism and counter-terrorism policy, and peacebuilding in East and West Africa. Current thesis topics include the EU and cosmopolitanism, aggression and order in international society, revolutionary movements in North Africa and the Middle East, foreign policy in Kazakhstan, China’s engagement with Africa, and the status of refugee agencies within the international system. You will also benefit from an ongoing series of professional development workshops offered by the University’s Centre for Academic, Professional and Organisational Development that address issues ranging from the challenges of writing and research to issues related to presenting research at conferences, networking, publishing, and entering the job market.

Research Centres and Institutes

- The Centre for Peace and Conflict Studies (CPCS)
- The Centre for Russian, Soviet, Central and Eastern European Studies (CRSCEES)
- The Centre for Syrian Studies (CSS)
- The Handa Centre for the Study of Terrorism and Political Violence (CSTPV)
- The Institute of Middle East, Central Asia and Caucasus Studies (MECACS)
- The Centre for Global Constitutionalism (CGC)

For full details see pages 29 and 30.
Research areas

Further details and email addresses are available at: www.st-andrews.ac.uk/intrel/people/

International security
Dr R Beasley: Foreign policies of coalition governments; Psychological consequences of elections; Perceptual theory of legitimacy.
Dr R Fawn: International security and international relations theory with a geographical interest in Central & Eastern Europe and the Caucasus.
Dr Y-K Heng: International relations theory; Security implications of globalisation and the war on terrorism.
Dr S Scheipers: Irregular fighters; Rules and constraints of war; Prisoners of war; Heroism and courage in war.
Dr H Stritzel: International security; The concept translation/travel; New European Security Theory; Discourse analysis.

Terrorism studies
Dr J Argomaniz: European Union counter-terror policies; International co-operation in counter-terrorism; Basque Terrorism.
Professor R English: Terrorism and political violence; Irish and British politics and history; The politics and history of nationalism and the state.
Dr C Gentry: Feminist theory; Gender studies; Political violence.
Dr R Lambert: Terrorist recruitment strategies; Community-based approaches to counter-terrorism and Islamophobia.
Dr P Lehr: Piracy and maritime terrorism; Terrorism and violence in South and South East Asia.
Dr O Lynch: Psychology of terrorism; Community based anti-terrorism; Radicalisation processes; Radicalisation and the prison system; Non-violent radicalism; Religion and identity.
Dr G Ramsay: Jihadist ideology and culture; ‘Cyberterrorism’ and ‘terrorism on the Internet’; Online dimensions of counterterrorism policy.
Dr R Singh: Terrorism; Political violence (with special expertise on suicide terrorism); International relations theory; The politics of the Middle East; Political Islam, religion, culture and identity in international relations.
Dr T Wilson: Comparative approaches to the study of inter-communal violence across Europe and the Middle East.

Peace and conflict
Dr R Brett: Contexts of violence; Post-conflict social transformation; Mass atrocities and their endings; Politics and resistance in Latin America.
Dr H Cameron: State crime; global elite bystanders and international criminal law; State and corporate complicity in political violence; Torture; Genocide; War crimes; Crimes against humanity.
Dr J McMullin: Ex-combatants; Conflict and post-conflict transition; Peacekeeping and peace-building; The United Nations; African politics.
Dr J Murer: Collective violence; Ethno-conflict and the psychology of identity politics.
Dr G Sanghera: UN peacekeeping; Human rights; Globalisation; The ‘politics’ of race and ethnicity post-9/11 and 7/7; Critical theory.
Professor A Watson: Childhood studies; Children in international relations, Activism; Motherhood.
Professor A Williams: International history; Conflict resolution.

International institutions
Dr M Burgess-Kasthala: International law; International legal theory; The Arab-Israeli conflict; Territorial disputes; Law in the Arab world.
Dr W Vlcek: International political economy; Offshore financial centres; Small states; Terrorist finance.

Regional studies including the Middle East, Central Asia and Southern Africa
Professor J Anderson: Soviet and post-Soviet politics; Religion and politics.
Professor S Cummings: Politics of identity, Nation-and state-building in Eastern Europe; Geographical specialisation: Central Asia.
Professor R Hinnebusch: Syria, Egypt and the international relations and political economy of the Middle East.
Dr F McCallum: Christian communities in the Middle East; Religion in international politics; Interfaith dialogue.
Dr C Ogden: International relations and domestic politics of South Asia (primarily India) and East Asia (primarily China); International relations theory; Social psychology; Identity politics.
Professor I Taylor: International relations of Africa; Africa’s political economy.
Dr F Volpi: The Middle East; Democratization and civil society; Religion and politics.

International theory
Professor K Fierke: International relations theory and methodology; Critical security studies; Conflict intervention.
Professor P Hayden: International political theory; Human rights and global justice; Contemporary political theory; Genocide studies.
Professor A Lang: International political theory; US foreign policy; Military affairs; Middle East international relations; Global constitutionalism; Ethics and the use of force.
Professor N Rengger: International and global ethics; International relations theory; The history of political and international thought.
Dr G Slomp: History of political thought and modern ideologies.
Help with financing your studies

The opportunity to work as teaching assistants (tutors) on first and second year undergraduate programmes may also be available, but cannot be guaranteed for all who apply. Stipends attached to these appointments provide a useful source of support for postgraduate students in their second and third years. The School also offers highly competitive Economic and Social Research Council (ESRC) Studentships through its involvement in the Scottish Doctoral Training Centre.

Careers

Many graduates of our programme go on to careers in the academic field, as university teachers, researchers or administrators. Some have gone into government service, including international organisations, while others find employment with NGOs, think-tanks, the media, the military, as well as the private business and financial sectors.

Recent PhD graduates from this School are teaching in universities in Britain, the USA, New Zealand, Australia, Canada, the Netherlands, and other countries. Others are employed with the British government, the South African government, the government of Canada, the African Union Peace Support Operation Division, and the Afghan government.

Please see page 24 for details of the University’s Careers Centre.
The School of Management at the University of St Andrews is a research intensive environment, operating under the overarching theme of ‘responsible enterprise’.

This theme reflects a set of values that shape what we research, the manner in which we undertake research, how we manage the School, and how we work with one another. We undertake research on structures, strategies and practices that can help organisations, industries and government agencies to operate more effectively and responsibly. We also seek to expose and challenge irresponsibility, hidden discourses and inequities in organisations, industries and government agencies. We believe that our research should be of demonstrable benefit to society. This benefit is realised via regular and open engagement with potential beneficiaries (including policy makers, organisation leaders, professionals and practitioners in local communities and the wider private, public and third sector).

The School has built and fostered a research environment that is highly collegiate. Research is organised into five thematic groups, which are central to the activities of the School, organising, for example, seminars, visiting speakers and reading groups. You are embedded in a group from arrival and this relationship is central to your intellectual and academic development. The thematic groups are:

- Cultural and Creative Industries (CCI)
- Ethics, Sustainability and Accountability (ESA)
- Financial Institutions and Markets (FIM)
- Knowledge and Practice (K&P)
- Organisations and Society (O&S)

Many of our academic staff belong to more than one group. Staff also contribute to three research institutes (which engage in both teaching and research):

- St Andrews Sustainability Institute (SASI)
- Social Dimensions of Health Institute (SDHI)
- Institute for Capitalising on Creativity (ICC)

There are also three research centres (which engage in research only):

- Centre for Responsible Banking and Finance (CRBF)
- Centre for Social and Environmental Accounting Research (CSEAR)
- Research Unit for Research Utilisation (RURU).

For full details see page 31.

The School has a student population of approximately 460 undergraduates, 220 taught postgraduates and 35 PhD students. We have 26 academics and 6 teaching fellows.

Contact
E: phdres@st-andrews.ac.uk
T: +44 (0)1334 461969
www.st-andrews.ac.uk/management
Research community

A cosmopolitan study environment is critical to networking on a global stage. There are over 100 countries represented at the University providing a truly international student community in which to learn. This cosmopolitan aspect of your education will allow you to become familiar with cross-cultural issues and to develop personal networks across the globe, an important factor in professional and personal development.

The School of Management has staff and students from over 35 countries, representing a wide diversity of cultures and interests. Our programmes are student-centred and our staff are here to ensure that your arrival and integration into your programme of study are smooth and enjoyable. In addition, our students have developed a Management Society within the University which organises a broad range of activities, both subject-related and social. The University also has a number of other student societies relating to the management discipline.

The School has successfully competed for, and received, major grants which have funded the development of projects in key research themes. The results of this research have been reported in the top international journals as well as being used by policy makers and practitioners. Our research guides and informs our teaching in the School where we encourage you to engage critically with this subject matter and develop your skills in analysis, synthesis, evaluation and application. We believe that research and teaching should produce and communicate both theoretical and practical insights.

You can keep up-to-date with School of Management developments at: www.st-andrews.ac.uk/management

Facilities

The School of Management is located in the Gateway Building on the North Haugh which is set in an open green space close to the beach, halls of residence, sports facilities and the town centre. The Gateway has state-of-the-art lecture and seminar facilities as well as private study areas for students. In addition, there is a public café on the ground floor of the building with views of the famous Old Course golf course and the North Sea.

Supervision and support

As a doctoral student, you will complete an independent and original piece of research. You will be admitted as a generic research student and upgraded to PhD candidate status after successful completion of the first-year review. Our doctoral programme is designed to develop your general and specific research skills to enable you to better engage with your research topic. In addition, the programme seeks to facilitate the development of personal and professional skills, knowledge, and expertise, to enhance future employment opportunities.

You will benefit from formal co-supervisory arrangements with research active academics whose research interests coincide with the topic area. The School of Management requires that you have a minimum of 12 annual meetings with your supervisors; however, the great strength of our programme is informal access to supervisory expertise and that of other colleagues through the thematic groups.

You will have access to a wide range of training courses, provided by the University’s Centre for Academic, Organisational and Professional Development. Available courses cover generic study skills, specialist research skills and other topics such as public engagement with research. In addition, the School of Management provides in-house training for doctoral candidates on a needs-driven basis, focusing most recently on research and writing skills. First-year doctoral candidates without a specialised research methods background may also access the University's Masters’ level research training, with modules accredited by the ESRC.

In addition, the School of Management is a member of the ESRC Scottish Graduate School of Social Science and you can benefit from a wide range of developmental courses in the social sciences, culminating in the annual SGS Summer School, held in June. You can find full details on the SGS website: www.socsciscotland.ac.uk
Research areas

Creative and Cultural Industries
Professor N Beech: Identity work.
Professor B Townley: Cultural and creative industries; Institutional logics.

Ethics, Sustainability and Accountability
Professor J Bebbington: Sustainable development; Academic work in practice.
Professor R Gray: Social and environmental accounting; Sustainability accounting and accountability.
Dr S Mansell: Business ethics; Stakeholder theory; Moral and political philosophies of business.
Dr P Roscoe: Formation and organisation of markets; Economisation.
Dr S Russell: Social and environmental accounting; Environmental governance.
Ms L Stevenson: Social and environmental accounting.

Financial Institutions and Markets
Dr K Bouslah: Investment analysis; Portfolio management; Asset pricing; Risk management.
Dr J Chen: Time-series modelling; Risk management; Responsible investment.
Dr D Chronopoulos: Banking; Productivity; Asset pricing; Mergers and acquisitions.
Dr M Clayton: Time-series modelling and forecasting.
Dr J Liñares-Zegarra: Consumer payment behaviour; Topics in banking and finance; Micro-finance.
Professor B Scholtens: Corporate social responsibility; Socially responsible investing; Environmental economics.
Dr M Tavakoli: Finance and industrial economics.
Professor J Wilson: European banking; Credit unions; Industrial organisation.

Knowledge and Practice
Dr S Chillas: Graduate labour market; Employability; Sociology of professions.
Professor H Davies: Healthcare policy and management; Policy design and implementation; Organisational dynamics and performance; Public accountability.
Dr G Greig: Knowing and learning in organisations; Activity theory.
Dr P Keenan: Strategy-as-Practice; Middle managers; Management of change.
Professor K Orr: Public sector leadership and learning.
Dr C Moran: Implementation of public policy; Inter-organisational collaboration and public service delivery networks.
Professor S Nutley: Understanding and improving research use and impact in public policy and practice contexts; Performance management systems; Public service audit regimes.

Organisations and Society
Dr A Baluch: Human resource management; Public and non-profit management; Organisational performance; Change and learning; Case study methods.
Ms J Brooks: Marketing; Consumer behaviour.
Dr R Brown: Entrepreneurship and public policy; Innovation; International business.
Dr E Burt: Third sector information management; Strategic positioning; Values; Identity and professionalism.
Dr N Butler: Sociology of work and critical perspectives on management.
Dr J Desmond: History of marketing; Construction of knowledge in marketing; Consuming culture; Morality and marketing; Advertising and public policy.
Mr M Dowling: Human resource management.
Professor T Dundon: Human resource management; Employee relations.
Mr Charles Lovatt: Entrepreneurship.
Dr A Timming: Employee voice; Employee silence; Body art.

For full profiles and email contacts:
www.st-andrews.ac.uk/management/aboutus/people/academic
Employment opportunities exist for graduates in a wide range of organisational contexts such as management consultancy, investment banking, fast moving consumer goods, non-governmental organisations, business development agencies, tourism, advertising and public relations, the Civil Service, government agencies and the education sector.

Alumni from the School of Management have found employment in the fields of general management, marketing and brand management, accountancy, investment analysis, fund administration and other aspects of the financial services industry. Graduates have taken up these roles in a wide variety of organisations in the public and private sector including: Bain and Company, HSBC, Nomura Bank, Blackrock Global Investment Management, Accenture, Credit Suisse Group, Deloitte, Standard Life, BP Amoco, Barclays, Halifax Bank of Scotland, KPMG, IBM, Ernst and Young, AXA Insurance, EasyJet, Danone and Greenpeace.

Recent PhD graduates have taken up teaching and research positions at universities of St Andrews, Cambridge, Dundee, Edinburgh, Glasgow and Bangor.

Please see page 24 for details of the University’s Careers Centre.
The School has 33 permanent staff members and 44 postdoctoral and honorary research staff.

The School typically accepts 10-12 research students each year.

St Andrews plays a key role in the Scottish Mathematical Sciences Training Centre (SMSTC) that provides a wide range of postgraduate lecture courses to all PhD students. Further details are available at SMSTC’s website: www.smstc.ac.uk

First-rate facilities and environment for research.

Opportunities to work closely, and undertake project work, within a research group.

High quality teaching, rated ‘Excellent’ in the last Teaching Quality Assessment being one of only two mathematics and statistics departments to receive the grade from the Scottish Higher Education Funding Council.

The School is well equipped with personal computers and laptops, a parallel computer and an on-site library, and has attracted substantial amounts of external funding.

The School also offers the opportunity for a joint PhD degree with the University of Cape Town, South Africa, where candidates would spend between one and two years.

Postgraduate community

There are more than 30 research students, all of whom are studying for the PhD degree and the School has 33 full-time academic staff, 6 technical staff, a student population of around 300 full-time equivalents, more than 50 postgraduates and approximately 20 postdoctoral researchers. This size promotes a friendly atmosphere with a cross-flow of ideas while providing the depth and breadth necessary to pursue major scientific programmes at an international level. Around 100 publications are produced per year. While the three Divisions within the School (Pure Mathematics, Applied Mathematics and Statistics) provide the natural environment for producing high-quality research, there are strong links between the different research groups. In particular, we are proud of our strong interdisciplinary links with theoretical computer science.

Facilities

The School provides an excellent environment and first rate facilities for research students. The School is well-equipped with personal computers and laptops, houses a large parallel computer and there is access to an on-site library and many online resources. The School’s research groups regularly attract substantial amounts of external funding.

Supervision

Research Students will become members of one the School’s research groups and will be supervised by leading experts in their respective research area. All research students will have at least two supervisors (usually a principal supervisor and a second supervisor, but other arrangements are also possible).

Research Centres and Institutes

- The Centre for Interdisciplinary Research in Computational Algebra (CIRCA)
- Centre for Research into Ecological and Environmental Modelling (CREEM)

For full details see page 31.

Contact

E: research.enquiries@mcs.st-andrews.ac.uk
T: +44 (0)1334 462344
www.mcs.st-andrews.ac.uk
St Andrews is one of the oldest centres for semigroup theory, due to the work of Howie and Blyth. With Mitchell and Ruskuc this tradition continues, and the research portfolio has been widened to cover a broad range of specific topics and projects. Probably the most exciting new developments are the theory of semigroup presentations, transformation semigroups, automatic structures for semigroups, combinatorics on infinite semigroups, and computational semigroup theory.

The current research in combinatorics, conducted by Huczynska and Ruskuc, focuses on selected topics on permutations, mappings, words and finite fields.

Analysis Research Group
www.mcs.st-andrews.ac.uk/pg/pure/Analysis

Professor K J Falconer
(Head of Pure Mathematics Division)
Professor L Olsen (Head of Group)
Dr M Todd

We have one of the world’s strongest research groups in fractal geometry and dynamical systems, reflecting a reputation built up over many years and continuing into the present.

Members of the group have done foundational research in the area leading to many highly cited papers and books.

Activities are based around weekly research seminars, learning seminars that are organised around specific topics and informal meetings.

The group has an active and vibrant programme including a number of research students, postdoctoral students and visiting researchers.

The School has an exceptionally strong tradition in fractal and multifractal geometry with staff having done much pioneering work in the area, making St Andrews one of the world’s leading centres in fractal geometry.

Exciting new developments are also part of the group’s research portfolio. These include the study of multifractal analysis of dynamical systems (Falconer/Olsen/Todd) and non-commutative fractal geometry (Falconer/Olsen).

Recently the group has widened its portfolio to include ergodic theory and dynamical systems (Todd).

In addition, methods from fractal geometry and dynamical systems are applied to study problems in various other fields, including number theory, differential equations and descriptive set theory.

Mathematics & Statistics
www.maths.mcs.st-andrews.ac.uk

For full profiles and email addresses go to:
www.maths.mcs.st-andrews.ac.uk/personnel.shtml

Research Groups:
Pure Mathematics Division
Algebra and Combinatorics
www.mcs.st-andrews.ac.uk/pg/pure/Algebra

Dr C Bleak
Professor P J Cameron
Dr S Huczynska
Dr J D Mitchell
Dr M Neunhöffer,
Dr M R Quick (Head of Group)
Dr C M Roney-Dougal
Professor N Ruskuc (also Head of School of Mathematics & Statistics)

This research group supports a large volume of activity, such as:

• Original research into several areas at the cutting edge of algebra and combinatorics, including specific projects funded by major external grants.

• Large number of research students and research collaborations, both within the group and with leading specialists worldwide.

• Involvement in interdisciplinary research, especially through CIRCA (see page 27) at the interface with theoretical computer science.

• Weekly reading group and seminar programmes, organisation of international conferences, and summer schools for research-aspiring undergraduates.

The specific areas of expertise include group theory, semigroup theory and combinatorics.

The study of groups, and in particular computational group theory, was brought to St Andrews through the pioneering efforts of Campbell and Robertson. Group presentations and permutation groups have been the centre of attention for some time. New topics have been added more recently through the work of Quick, Neunhöffer, Roney-Dougal and Ruskuc: computation with matrix groups, structural theory and properties of infinite groups, varieties of groups, and connections between group and semigroup presentations.

Research Groups:
Applied Mathematics Division

Modelling a magnetic flux rope eruption in the solar atmosphere

Solar and Magnetoospheric Theory
www.solar.mcs.st-andrews.ac.uk

Professor I De Moortel
Professor A W Hood (Head of Group)
Dr D H Mackay
Professor T Neukirch
Professor C E Parnell (Head of Applied Mathematics Division)

Dr A N Wright
Dr V Archontis (Royal Society University Research Fellow)

This group is supported by a Rolling Grant from the Science and Technology Facilities Council and attracts a large number of international visitors for collaborations with staff and with the half-dozen postdoctoral research assistants and a dozen PhD research students working in the Group.

Our approach to carrying out research on the nature of the Sun and the Magnetosphere is to set up a mathematical model of a dynamic phenomenon, observed by recent space missions, and then to explore its fundamental properties. This involves analytical methods (perturbation theory, special functions, ordinary and partial differential equations) combined with computer simulations. The numerical simulations are undertaken on a 2500 processor parallel computer that is housed in the Mathematical Institute, giving the opportunity to learn about the exciting new numerical techniques that are employed on such a computer.

The Group is currently investigating a large number of different phenomena, including flux emergence, sunspots, coronal heating, solar flares, magnetic waves and instabilities, and particle acceleration. We maintain close connections with solar observatories in various parts of the world and also with many current space missions, including Hinode, SDO, RHESSI, TRACE, SOHO and STEREO. Thus, there is an exciting array of challenging problems for new research students to tackle.

Vortex Dynamics
www.vortex.mcs.st-andrews.ac.uk

Dr M Carr
Professor D G Dritschel (Head of Group)
Dr J N Reinaud
Dr R K Scott
Dr C V Tran

We are studying the behaviour of nonlinear vortex interactions, wave-vortex interactions and turbulence, primarily in relation to atmospheric and oceanic dynamics.

The atmosphere and oceans exhibit a multitude of wave and vortical phenomena across a vast range of spatial scales, from millimetres (where viscous forces come into play) to global scales, i.e. tens of thousands of kilometres. The effects of the Earth’s rotation and the generally stable density stratification (light fluid lying over heavier fluid) are crucial to many of these phenomena. Moreover, the huge available inertia (viscous dissipation) implies that flow features tend to organise into long-lived coherent structures, i.e. vortices, whose interactions are greatly responsible for the flow evolution. These vortices and their interactions are highly nonlinear, leading to scale cascades, fine-scale structure, and general turbulence. In addition, these interactions excite internal-gravity waves, which may grow to nonlinear amplitudes and feed back on the vortex dynamics.

At the present time, we are studying fundamental aspects of vortex dynamics and wave-vortex interactions using a variety of approaches. Some analytical progress can be made for special classes of flows, or by perturbation theory. This is often used to complement more direct, numerical approaches, employing state-of-the-art numerical methods.
Statistical Ecology

Research in statistical ecology is becoming increasingly important, not least in the management and conservation of ecosystems worldwide.

Particular areas of focus include:

- The design and analysis of sighting surveys.
- Wildlife population assessment.
- Modelling population dynamics.
- Embedding process models in statistical inference.
- Bayesian inference using sequential importance sampling and (Reversible jump) Markov Chain Monte Carlo.
- Generalised linear and generalised additive mixed models.
- Model uncertainty.
- Spatial point process modelling of ecological communities, including applications to biodiversity research.
- Biodiversity monitoring.

We are part of the National Centre for Statistical Ecology (NCSE), a joint centre with the universities of Bath, Bristol, Exeter, Glasgow, Kent and Sheffield, is jointly funded by EPSRC and NERC. Established with a £1.1m EPSRC Critical Mass grant, it is now funded under a similar-sized follow-up award. The Statistical Ecology group is also the main driving force behind CREEM (see page 26) which was established in 1999.

History of Mathematics and its Applications

www-history.mcs.st-andrews.ac.uk/history

Several members of staff, who are also active in other areas of research, have interests in the history of mathematics. Edmund Robertson and John O’Connor have created a large historical archive on the internet, comprising portraits and biographies of over 1,800 mathematicians as well as a wealth of other historical articles. Alex Craik is currently researching the work of several nineteenth-century Scottish and English mathematicians. At present we have two students working towards doctorates in this area.

The University of St Andrews Library is well-equipped to support work on the history of mathematics. We would be interested to hear from any prospective students in this field.
Financial assistance within the School

The School of Mathematics & Statistics is offering some or all of the following awards to suitably qualified applicants who in September 2014 will begin a programme of research at the University of St Andrews: up to three EPSRC Doctoral Scholarships and up to two STFC Doctoral Scholarships (only for PhDs in the Solar and Magnetospheric Theory Group). All scholarships will be awarded for a minimum of three, and a maximum of four years, and will cover either tuition fees and maintenance or tuition fees only, depending on eligibility. These awards are only available to students who have already been accepted for a place and who match the eligibility criteria. For further details on eligibility as well as procedural guidelines and application deadlines please contact the School.

Research income

The School receives substantial research income from the Research Councils, the European Commission, the Scottish Higher Education Funding Council and a wide variety of other public and private sources, both from the UK and overseas. In the past five years grants in excess of £6m have been awarded.

Careers

Our graduates hold positions at leading universities or companies in areas as diverse as business administration, computer science and modelling, fisheries laboratories and pure mathematics. In short, a postgraduate degree in mathematics or statistics from St Andrews opens the way for a variety of careers. Our recent graduates at Masters and Doctoral level have, amongst other things:

• Moved on to postdoctoral studies.
• Joined the academic staff of leading UK and foreign universities.
• Found highly-paid positions in analysing futures/finance for large consulting firms and major financial institutions.
• Found rewarding and challenging positions in the computer industry.
• Found academically rewarding positions and careers in government agencies, for example, GCHQ.
• Joined government and non-governmental organisations to advise wildlife and conservation managers, for example, the Wildlife Conservation Society.
• Masters students have improved their mathematics qualifications, hence enhancing their positions and prospects in the secondary and tertiary education sectors.

Please see page 24 for details of the University’s Careers Centre.
With seventeen active research groups, the School of Medicine offers postgraduate training for the degrees of MSc, MPhil, MRes, PhD and MD, in addition to providing undergraduate training for the BSc (Hons) in Medicine. PhD positions are advertised on a regular basis on the School web pages. We have active research programmes covering a variety of areas of biomedical science. For example:

- Child and Adolescent Health Research
- Communication between patients and health care staff
- Genetics and epidemiology of neurodevelopmental disorders and cognitive traits.
- Human carcinogenesis and cancer predisposition
- The immune system and inflammatory arthritis
- Inflammatory airway disease
- Interdisciplinary Centre for Medical Photonics
- Influence of diet on cancer risk and response to therapy
- Medical education
- Molecular mechanisms of exocytosis
- Nanoscale analysis of cells and organelles in health and disease
- Novel therapeutic approaches to tuberculosis
- Psychological aspects of oral cancer
- Receptor pharmacology and signal transduction
- Violence reduction and policy initiatives to improve health and reduce health inequalities

For general information about the research activity of the School see: www.st-andrews.ac.uk/medicine

The Pro Dean (Postgraduate) will be happy to assist if you are unsure about your choice of course or entry requirements. Prior to the offer of a place you may be invited to visit St Andrews. A visit to the University will provide the opportunity to meet potential supervisors (each postgraduate student works under the supervision of a member of staff), discuss your research project, and see something of the facilities available to research students.

Once Postgraduate Admissions has made an offer of a place and this has been accepted, arrangements will be made for you to be registered for the appropriate degree.
Supervision and support

PhD
For most students, the PhD is a three-year programme of supervised research, examined by thesis. The thesis is normally submitted by the end of the third year and is a piece of original work describing the research undertaken and its implications for present knowledge.

During the first year of study the School may require your attendance on particular courses in order to acquire specific skills or knowledge, as appropriate to your area of study. The PhD degree may also be awarded through submission of a portfolio of published work, which must all be in the public domain at the time of submission. Examination of a PhD by portfolio is essentially similar to that of a PhD by thesis.

MD
In 2003 the Scottish Parliament reinstated the right of St Andrews to offer a Doctorate in Medicine (MD) degree to candidates holding a recognised medical qualification. Candidates must have some connection with St Andrews as either graduates in Medicine or Medical Science from this University, or members of academic staff or employees of the NHS in the Lothians, Fife, or Tayside having a working relationship with St Andrews. The MD may be awarded as a result of research undertaken in St Andrews, for appropriately qualified candidates. An MD may also be achieved through submission of a portfolio of published work, all of which must be in the public domain.

The minimum period of study on a full-time research project is two years, or four years for part-time study.
Research areas

Molecular Medicine

Infection and Genomics

Professor S H Gillespie (shg3@st-andrews.ac.uk): Tuberculosis clinical trials; Molecular biology of mycobacteria; Evolution of antibiotic resistance; Genomics of novel respiratory pathogens; Application of molecular biological techniques; Whole genome sequencing in infection practice.

Professor L Kent (lsk8@st-andrews.ac.uk): Molecular genetics of child psychiatric disorders.

Dr J Cox Singh (jcs26@st-andrews.ac.uk): Malaria pathophysiology – Plasmodium knowlesi; Functional studies on genetic markers of parasite virulence; Innate immune mediators at the host-parasite interface.

Dr S Paracchini (sp58@st-andrews.ac.uk): Functional genomics of human cognitive and behavioural traits; Gene expression regulation; Genetics of dyslexia, cognitive abilities and handedness.

Cell Biology

Professor D Harrison (djh20@st-andrews.ac.uk): Quantitative and systems pathology, human tissue and translational research.

Dr M Andrews (mra5@st-andrews.ac.uk): Axonal regeneration and plasticity after brain and spinal cord injury; Gene therapy; Cellular grafting; Neuroprotection.

Dr G Crumb (gc@st-andrews.ac.uk): Characterisation of the expression and functions of a novel family of phosphatase C genes (PLCxDs) on ion, water and solute transport in epithelial cells.

Dr J Lucocq (jml7@st-andrews.ac.uk): Cell biology of human parasites including giardia, microsporidians and trichomonads; Function and biology of a relict mitochondrion – the mitosome; Biogenesis of the polar tube in microsporidians; Mechanisms of Golgi function in human parasites; Nanoparticle analysis in pathological diagnosis and drug delivery; Nanomorphomics analysis of molecules and structure in eukaryotic cells; Mapping signalling lipids and their regulators in health and disease. www.nanomorphomics.com

Dr S Powis (jip10@st-andrews.ac.uk): The immune system in health and disease; MHC class I immunobiology; The role of HLA-B27 in ankylosing spondylitis; Immune functions of secretory exosome nanovesicles.

Dr P Reynolds (par10@st-andrews.ac.uk): Hippo signalling pathway in normal and cancer cells; Systems medicine approaches to novel signaling pathways; MicroRNAs in breast cancer.

Dr A Stewart (ajs21@st-andrews.ac.uk): Metal ion physiology; Zinc handling and homeostasis; Calcium signalling in neurons.

Dr J Tello (jt65@st-andrews.ac.uk): Neuroendocrine control of reproduction; Viral mediated probing of hypothalamic network function; GPCR modulation with small molecule pharmacoperones.

People and Populations

Professor P Donnelly (pds21@st-andrews.ac.uk): Violence Reduction; Health Systems Organisation, Governance and Accountability; Public Health Policy Development; Global Health.

Professor G Humphris (gjm4@st-andrews.ac.uk): Health care professional and patient communication; Online or mobile communication to intervene with health messaging including addiction; Anxiety in cancer survivors other care settings.

Professor C Jackson (cj21@st-andrews.ac.uk): Chronic disease management in the community: Disease prevention; Diagnosis and management of Inflammatory airways disease, occupational, asthma; Medical education.

Dr J Burr (jmb28@st-andrews.ac.uk): Ophthalmic health services research; Systematic reviews; Development and evaluation of complex interventions and randomised controlled trials.

Dr J Cecil (jc100@st-andrews.ac.uk): Short-term controls of eating behaviour in children and adults; Gene-environment interactions in the development of obesity; Primary care communication on weight.

Dr A Laidlaw (ahl1@st-andrews.ac.uk): Health care professional and patient communication; Clinical communication training for health professionals; Higher education student wellbeing.

Dr G Ozakinci (go33@st-andrews.ac.uk): Illness perceptions; Health behaviour interventions (especially diet, exercise, sun protection); Emotional regulation interventions (especially fears of cancer recurrence among cancer survivors); Mental wellbeing and help seeking; Cross-cultural health perspectives.

Dr M Shearer (currently on maternity leave)

Dr D Williams (djw11@st-andrews.ac.uk): Public health; Violence prevention; Health promotion; Inequalities; Community development; Alcohol; Epidemiology; Evaluation.

Return to Contents
CAHRU (Child and Adolescent Health Research Unit)

Professor C Currie (cec53@st-andrews.ac.uk):
Dimensions of health and wellbeing in adolescents;
Physical activity, sedentariness, diet and weight (obesity/ underweight); Puberty and health;
Socioeconomic inequalities and health; International comparisons of adolescent health.

Medical Education Research

The research carried out within the school can be split into four key areas: Curriculum design and development including research – teaching linkages, professionalism and inter-professionalism, assessment and feedback and clinical communication training.

Professor S Guild (sbg@st-andrews.ac.uk)
Dr G Browne (gp3@st-andrews.ac.uk)
Dr A Laidlaw (ahl1@st-andrews.ac.uk)

Global Health

Dr B O’Hare (bamo@st-andrews.ac.uk):
Childhood deprivation; Health system strengthening in low income countries; The midstream and upstream causes of poverty; Global economic governance; The influence of illicit financial flows on children.

Finance

Current grant total for the whole school awarded – £2.7 million in 2012/2013.
Modern Languages

- 36 full-time research staff.
- Annual postgraduate student intake around 15; current postgraduate population 45.
- A diverse and international student body, with students from France, Germany, Italy, North America, the Middle East and Africa as well as the UK.
- Wide range of PhD supervision areas – Arabic, Cultural Identity Studies, French, German, Italian, Linguistics, Mediaeval Studies, Russian, and Spanish and Latin American Studies, ranging across linguistics, film, cultural studies, and literature, in periods from the Middle Ages to the present.
- PhD theses may be written in the language of the relevant discipline if this is academically necessary.
- PhD partnership with Freiburg University. As part of their degree programme students are eligible for a funded year or semester of study at Freiburg, one of Germany’s elite universities.
- Transferable skills, such as analysis, synthesis and the ability to give public presentations, are systematically developed throughout the programme.
- You will have the opportunity to receive subject-specific training in teaching methods through a dedicated programme delivered by the School of Modern Languages’ Language Development Officer.
- Practical training is provided in aspects of research activity such as writing conference proposals, funding applications and academic job applications.
- There is a series of dedicated talks by permanent and visiting staff – sharing their experiences of a variety of aspects of research, from the theoretical to the practical.
- PhD research seminar programme – run by the postgraduate community in the School.
- Annual School of Modern Languages Postgraduate Conference.

Contact
E: pgmodlangs@st-andrews.ac.uk
T: +44 (0)1334 463670
www.st-andrews.ac.uk/modlangs/prospectivestudents/postgraduate

Postgraduate community
The Postgraduate community is an integral part of the research culture of the School of Modern Languages.

The School houses six Departments – Arabic, French, German, Italian, Russian and Spanish; two Research Institutes – Contemporary and Comparative Literature and European Cultural Identity Studies and Linguistics; and collaborates closely with the St Andrews Institute of Mediaeval Studies and The Centre for Russian, Soviet, Central and East European Studies (CRSCEES).

There are 36 members of academic research staff and a lively international postgraduate community of 45 students from all over the world. This size promotes a friendly atmosphere with a cross-flow of ideas between the disciplines, while providing the depth and breadth necessary to pursue major research projects at an international level. Staff and research students frequently meet outside of more formal supervision at the many lectures, seminars, and workshops organised by all Departments and Institutes throughout the year (on average two to three events each week). The School also regularly hosts international conferences. These events bring distinguished scholars to St Andrews, whom PhD students are encouraged to meet to discuss their research.

The School’s research staff produce over 50 publications per year – books, scholarly editions, articles and translations – and there are strong links with research-led universities in centres such as Paris, Freiburg, Bonn, Madrid, Naples and Mexico City and across a range of subjects. Many members of staff also serve on the editorial boards or as readers for journals and monographs. PhD students are also encouraged (as appropriate) to publish their works and a number of our PhD students have published whilst working on their theses.
Supervision and teaching

Supervision is available in an exceptional variety of areas, Arabic, Cultural Identity Studies, French, German, Italian, Linguistics, Mediaeval Studies, Russian, and Spanish and Latin American Studies, ranging across linguistics, film, cultural studies, and literature, in periods from the Middle Ages to the present. Current and recently completed thesis topics include: the female novel in eighteenth-century France; Italian post-colonial literature; Masculinity in contemporary German Literature; French Caribbean literature; Uruguayan national cinema; reading Dante and Paul in the fourteenth century; Mauritian literature; seventeenth-century French satirical drama; the influence of German Romantic writers on their Russian counterparts; Galician cultural identity; gender in twenty-first-century French autofiction. For more information see: www.st-andrews.ac.uk/modlangs/people/currentpostgraduates

You will have a principal academic supervisor and a secondary supervisor, the latter providing primarily pastoral care and support as required. You are also encouraged to contact the School’s Director of Postgraduate studies on any matter related to your study in St Andrews. Where expertise in more than one subject area is required, you will be co-supervised (intra- or inter-School). At least five supervisory meetings are held each semester and agreed action points are formally recorded in order to ensure that you are making progress with your research. You are expected to submit a substantial piece of written work at the end of your first year.

Facilities

You will have 24-hour access to individual workstations, with networked computers, storage and printing facilities. There is an annual entitlement to funds for research activities, and access to unlimited inter-library loans.

Training

The University’s GRADskills programme (see page 14) provides training in generic and subject-specific skills and aims to widen students’ employability inside and outside of academia. All new PhD students work with their supervisor to identify key needs and plan attendance at GRADskills courses. This is then complemented by the School’s own in-house Teacher Training Programme run by the Language Development Officer (LDO). PhD students who are teaching in the School (from the second year of PhD onwards) attend fortnightly training sessions on practical matters in teaching, for example, lesson planning; managing the classroom; creating student-centred activities; marking and assessment; digital technology.

Lunchtime research talks: a series of dedicated talks in an informal setting by permanent and visiting staff – sharing their experiences of a variety of aspects of research, from the theoretical to the practical, for example, how to write a good CV, experiences of grant applications and other forms of funding, recent experiences of successfully completing a PhD, methodological issues arising from particular research projects, the idiosyncrasies of different national and university libraries, and getting the most out of fieldtrips.

Research Centres and Institutes

The School of Modern Languages has three research institutes and collaborates in two interdisciplinary inter-School research institutes:

• Institute for Contemporary and Comparative Literature
  www.st-andrews.ac.uk/modlangs/research/centresandinstitutes/instituteforcomparativeliterature

• Institute of European and Cultural Identity Studies (IECIS)
  www.st-andrews.ac.uk/modlangs/research/centresandinstitutes/iecis

• The St Andrews Institute of Mediaeval Studies
  www.st-andrews.ac.uk/saims

• The Centre for Russian, Soviet, Central and East European Studies (CRSCEES)
  www.st-andrews.ac.uk/crscees

For full details see page 32.
Arabic
Dr F Caiani (fcf@st-andrews.ac.uk): Modern Arabic literature.
Ms C Cobham (ccm1@st-andrews.ac.uk): Modern and contemporary Arabic fiction; Literary criticism; Literary translation.
Dr K Dmitriev (kdk25@st-andrews.ac.uk): Early and classical Arabic language and literature; The Arabic philological tradition and Arabic lexicography.
Dr O Elmaz (oeo2@st-andrews.ac.uk): Arabic linguistics and lexicography; Early Arabic and Qur’anic Studies; Digital Humanities.

French
Dr G Bovd (gpb@st-andrews.ac.uk): Modern literature; Poetry; French intellectuals and communism; cultural exchanges with France in the twentieth century.
Dr J Carson (joc@st-andrews.ac.uk): Seventeenth-century literature and society; Comedy; Theatre and the state.
Dr D Culpin (djc3@st-andrews.ac.uk): Seventeenth- and eighteenth-century literature; Literature of ideas (especially moralists and travel writers) and book history; La Rochefoucauld; Perrault; Marivaux.
Dr D Evans (dee3@st-andrews.ac.uk): Nineteenth- and twentieth-century poetry; Poetry and music; Verse form and forms of metaphorical and religious sensibility.
Dr E Herdman (eh58@st-andrews.ac.uk): Renaissance texts in French and in Latin; themes of transgression and restraint; attitudes to alcohol in early modern Europe; obscurity in the 16th century.
Dr E Hugueny-Léger (esmh@st-andrews.ac.uk): Nineteenth- and twentieth-century French literature and critical theory; Annie Ernaux; Women’s writing; Autobiography and autofiction.
Professor M-A Hutton (mhh80@st-andrews.ac.uk): Contemporary (especially post-1990) French literature; WWII testimonial texts; Fictional representation of WWII; Contemporary detective fiction.

Italian
Professor D Duncan (ded3@st-andrews.ac.uk): Gender and sexuality in Italian literature and film; Race, national identity and colonial Italy; Postcolonial.
Dr E Bond (efb@st-andrews.ac.uk): Identity and space in modern and contemporary Italian literature; Transnational, migration and border writing; Freudian and post-Freudian psychoanalytic literary theory; ‘Adriatic’ literature; Twentieth and twenty-first century women’s writing.
Dr R Riccobono (rmr8@st-andrews.ac.uk): Montale; Pavese; Gender studies; Literary transvestism in Italian literature.

German
Dr C Beedham (cbb@st-andrews.ac.uk): The linguistics of modern German (also Russian and English); Irregular verbs; The passive; Lexical exceptions, structuralism.
Dr B Bildhauer (bmbm@st-andrews.ac.uk): Mediaeval German literature and culture; German film.
Dr A Cusack: Literary anthropology; Nineteenth-century German literature and culture; German Gothic; Nomadism and wandering; Cultural transfer; Popular literature and pre-cinematic media.
Dr M Gratzke (mg43@st-andrews.ac.uk): Eighteenth to twenty-first century literature and culture, especially in relation to masculinity and gender; German popular music and film.
Dr C Lawson (cl38@st-andrews.ac.uk): Post-1945 German literature and film, politics, history and memory; the memorialisation of the Second World War; Discourses of German Victimization.
Dr M White (mewj@st-andrews.ac.uk): Nineteenth-century German literature; Theodor Fontane; Space in literature; The impact of Realism and its place in the European canon; Literary strategies in the Nouveau Roman and German Realism.

Russian
Dr V Donovan (vsd2@st-andrews.ac.uk): Cultural and social history of the post-war Soviet Union; The development of the Soviet technical intelligentsia; Social transformation and cultural memory; Oral tradition in Soviet and post-Soviet Russia.
Dr E Finner (eff50@st-andrews.ac.uk): Comparative literature; Canon formation; Russian twentieth-century literature and culture; The English and Russian novel.
Dr C Whitehead (cww12@st-andrews.ac.uk): Detective fiction; The fantastic; Discourse theory and nineteenth-century prose; French-Russian comparisons in literature.

Spanish
Dr K Anipa (ka17@st-andrews.ac.uk): History of the Spanish language, sociolinguistics (historical and contemporary); Renaissance Humanism.
Mr B Bentley (bpeb@st-andrews.ac.uk): Golden Age Drama; Spanish cinema; ab initio language teaching and CALL.
Dr R Fernández (rfr1@st-andrews.ac.uk): Contemporary Spanish literature, especially autobiography.
Professor W Fowler (wmf1@st-andrews.ac.uk): Mexican and Latin American history, especially Santa Anna and the dynamics and culture of the Mexican pronunciamiento.
Dr E Kefala (ek30@st-andrews.ac.uk): Contemporary Latin American fiction, especially Borges and the Argentinian avant garde; Postmodernism.
Dr J Leetrán (jl50@st-andrews.ac.uk): Spanish poetry; Luis Alberto de Cuenca; Film and literature in contemporary Spanish.
Dr H Partzsch (hamp2@st-andrews.ac.uk): Spanish women writers 1770-1900; Gender and literature in the Spanish Habsburg Empire; Spanish poetry. (Director of Postgraduate Studies.)
Professor G San Román (gsr@st-andrews.ac.uk): Contemporary Latin American literature, especially of Uruguay; Sexuality and nationalism; Cultural identity studies. (Director of the Institute of European Cultural Identity Studies.)
Financing your research studies in Modern Languages

The School of Modern Languages is offering some or all of the following awards to suitably qualified applicants who in September 2014 will begin a programme of research at the University:

- University of St Andrews – School of Modern Languages 600th Anniversary PhD Scholarships: Three scholarships of £15,000, equivalent to the value of the home fee waived and a contribution to maintenance for a maximum of three years (or the part-time equivalent) for a student who has been offered and firmly accepted a place by 7 March 2014.
- One Malcolm E Humble award of about £1,000 to a PhD student in German Studies.
- One Woodward award of £500 to a PhD student in Spanish / Latin American Studies.

Funding for the Freiburg Exchange may be applied for in the form of a scholarship from Baden-Württemberg (www.bw-stipendium.de), deadline 15 February of first year of PhD study.

Careers

Many of our postgraduates go on to careers in the academic field, as university teachers, researchers or administrators. Others find employment for example as cultural advisors, translators or in the public or civil service. Recent graduates have secured posts such as university teachers and researchers in the UK and abroad, research assistants, a postgraduate recruitment officer, a position in GCHQ, a professional translator, an advisor to the CBI, and a subtitler for television.

Please see page 24 for details of the University’s Careers Centre.
Philosophy

- SASP (St Andrews & Stirling Philosophy Graduate Programme) is an internationally recognised programme for Philosophy.
- The SASP programme received a tremendous endorsement at the latest Research Assessment Exercise, which rated St Andrews and Stirling as the top Scottish Philosophy departments, with St Andrews at the very top of the UK tables and Stirling in the top ten. Collectively, 35% of our work was awarded the 4* world-leading grade, with a further 40% rated internationally excellent and the remainder internationally recognised.
- In the latest Philosophical Gourmet Report, produced by Brian Leiter, SASP was ranked the third best Philosophy programme in the UK. www.philosophicalgourmet.com
- Between 10 – 15 research postgraduate students are admitted each year drawn from the UK and around the world.
- Over 35 dedicated full-time Philosophy staff in the SASP programme work in a broad spectrum of disciplines, from logic and metaphysics to moral philosophy and beyond.
- The SASP programme boasts a staff of authoritative researchers, a majority of whom have significant experience of teaching at leading international institutions, and which is large enough to teach a comprehensive and flexible range of graduate courses, and to supervise research projects.
- There is a bi-annual reading party in the Scottish Highlands for all taught and research postgraduates and staff.
- Friendly and congenial atmosphere in which postgraduate students are encouraged to participate actively through, for example, the weekly Graduate Seminar and the Philosophy Club.

Contact

E: sasp@st-andrews.ac.uk
T: +44 (0)1334 462487
www.st-andrews.ac.uk/~sasp
Research community

The St Andrews and Stirling Graduate Programme in Philosophy (SASP) is taught by the Philosophy Departments in the Universities of St Andrews and Stirling. The philosophy graduate programmes of St Andrews and Stirling are fully merged for all postgraduate degrees.

St Andrews and Stirling together form Scotland’s premier centre for philosophy and one of the top philosophy schools in the United Kingdom. The philosophical ambience is intense, friendly and co-operative.

The research programme is enhanced by a busy programme of conferences, workshops and visiting speakers from universities in the UK and from abroad. The St Andrews Philosophy Club meets several times each semester, usually on Wednesday afternoons, for papers by visiting speakers. The Department of Philosophy at Stirling holds its visiting speaker seminars on Thursday afternoons.

St Andrews also has a weekly seminar run by and for the research students, meeting Friday evenings, to which everyone is welcome. Arché (Philosophical Research Centre for the Philosophy of Logic, Language, Metaphysics and Epistemology) runs a variety of informal seminars and discussion groups. The programme also supports and encourages a wide range of student-led Reading Groups on topics relevant to their degree.

The student Philosophy Society (PhilSoC) is the most vibrant and active student-led society in the Faculty of Arts. It boasts a lively programme of stimulating talks and events throughout the year and attracts a regular following from across the University.

There is a reading party for postgraduate students and staff twice a year. The party provides an opportunity for you to present your work in an informal and relaxed setting. The reading party takes place at a country retreat in beautiful surroundings: a fine opportunity for seeing Scotland, hiking, and sampling Scottish food and drink, with the give and take of philosophy in the evenings.

The SASP programme has the most diverse postgraduate student population in the University. In addition to students from the UK, USA, Canada and across Europe, the programme has in recent years attracted students from areas such as China, Hong Kong, the Middle East and South America. This gives a uniquely international, cosmopolitan and welcoming feel to the philosophical community.

Location

SASP is primarily based in the Philosophy Department of the University of St Andrews, housed in Edgecliff, a nineteenth-century building with beautiful views out over St Andrews Bay. The view from the library makes it a lovely place to work.

The Department of Philosophy in Stirling is housed in the Pathfoot Building that is located at the University’s campus in Stirling. The campus is set in the eighteenth-century landscaped gardens of Airthrey Castle and widely thought to be one of the most beautiful campuses in Britain.

Facilities for research students

The Philosophy Graduate Study Centre is housed in a separate building in Edgecliff’s grounds, facing the sea and immediately adjacent to the main building. It has a common room, study rooms and computer facilities. The Department endeavours to provide desk space for all research students, most within this building. Edgecliff itself has computing facilities, as well as its own philosophy library, which has over three-and-a-half thousand volumes and carries sixteen current philosophy periodicals.

You will also have access to the Postgraduate Study Room located in the basement of Edgecliff. This room provides access to a small PC lab and to network printing and photocopying facilities. The Staff and Graduate Common Room is located on the first floor and is available for use by staff and postgraduate students during the week.

Supervision and teaching

The SASP programme provides supervision in a wide range of philosophy and history of philosophy, and welcomes research proposals. SASP offers expertise in most areas of philosophy, including language, epistemology, ethics, aesthetics, political philosophy, mind and history of philosophy.

While in St Andrews, you will be integrated members of SASP where you have workspace and are encouraged to participate fully in the intellectual activities of this academic community such as seminars and conferences, which fosters your contact with other institutions. SASP is also keen to promote the future careers of its students, and has been greatly encouraged by the number of former doctoral students now in academic posts.

You will be:

- required to deliver seminar papers as part of the Graduate Research Seminar;
- offered training in undergraduate tutoring;
- offered paid undergraduate teaching where appropriate and when available;
- able to apply for funding to help with travel, attendance at conferences, and other research expenses;
- supplied with a desk space and access to computing and printing facilities;
- invited to attend social events run throughout the year including the Welcome Reception, a Christmas Party and a Garden Party at graduation;
- actively encouraged to attend and present at bi-annual Reading Parties and enjoy the opportunity to meet visiting speakers over dinner after the Philosophy Club.
The MPhil in Philosophy

The MPhil in Philosophy is a two-year research degree that is awarded after successful completion of the taught element of the MLitt programme plus a supervised research thesis of 40,000 words. The MPhil is primarily designed for those wishing to undertake an extra year of research study in preparation for PhD studies, although the MPhil remains a desirable independent qualification in its own right.

There are two routes of entry to the MPhil programme: a) via Direct Entry at the point of application and b) via progression from the SASP MLitt programme. In both cases students must complete 120 credits of 5000-level modules, as in the MLitt regulations.

Then if students on the direct entry route meet the standard progression-to-dissertation requirements on the MLitt, they will progress to write a MLitt dissertation of 15,000 words and then convert their MLitt dissertation into a 40,000 word MPhil thesis and graduate with an MPhil degree (subject to meeting all the requirements for the award of both qualifications).

If the student on the MLitt programme meets the standard progression-to-dissertation requirements on the MLitt, they will have the option to write a MLitt dissertation of 15,000 words and either graduate with a MLitt degree or convert their MLitt dissertation into a 40,000 word MPhil thesis and graduate with an MPhil degree (subject to meeting all the requirements for the award of both qualifications).

A distinctive feature of the SASP MPhil programme is that you will be provided with two academic supervisors to provide regular academic guidance and advice throughout the research project.

A further distinctive feature is in the second year of the MPhil programme when you are actively encouraged to participate and make presentations at the regular dedicated MPhil seminar hosted by senior members of staff.

The number of MPhil students is typically between five and ten, drawn from the UK and around the world. Many MPhil students progress to a PhD programme here or elsewhere, including some of the top institutions in the US.

The PhD in Philosophy

PhD students undertake at least three years of study, and submit a thesis of not more than 80,000 words. Applications from intending PhD students should include a detailed description of the proposed research topic.

The PhD programme is friendly, intensive and collegial with more than 65 PhD theses currently being undertaken in the SASP programme. Many have been attracted to SASP by their wish to be supervised by members of staff who are leading contributors in their field.

You will undertake independent research projects, with the regular advice of your specialist supervisors, culminating in the submission of an 80,000-word thesis. You will be provided with two academic supervisors to provide regular academic guidance and advice throughout the research project.

Research Centres and publication

There are two leading philosophical research centres in St Andrews:

- Arché (Philosophical Research Centre for the Philosophy of Logic, Language, Metaphysics and Epistemology)
- The Centre for Ethics, Philosophy and Public Affairs (CEPPA)

For full details see page 32.

The Philosophical Quarterly

One of the most respected international philosophy journals, is edited from St Andrews. The Philosophical Quarterly, one of the main journals of philosophy in Britain, is edited by an editorial board made up of staff of the two Philosophy departments at St Andrews, and one or two representatives from each philosophy department at the other Scottish universities. Founded in 1950, it is managed by a committee of representatives of the University Court of St Andrews and of the Scots Philosophical Association, convened by Simon Prosser.
Research areas

Moral, Political & Legal Philosophy
Dr Elizabeth Ashford (ea10@st-andrews.ac.uk): Ethics; Political Philosophy; Ancient Philosophy.
Professor Marcia Baron (mb253@st-andrews.ac.uk): Ethical Theory; Philosophy of Criminal Law; Kant’s Ethics.
Dr Rowan Cruft (rowan.cruft@stir.ac.uk): Moral Philosophy; Political Philosophy; Ethics.
Professor Berys Gaut (bng@st-andrews.ac.uk): Aesthetics; Philosophy of Film; Creativity; Ethics.
Dr Kent Hurtig (kent.hurtig@stir.ac.uk): Philosophy of Mind; Philosophy of Action; Philosophy of Perception.

Dr Simon Prosser (sjp7@st-andrews.ac.uk): Philosophy of Mind; Metaphysics.
Professor Michael Wheeler (m.w.wheeler@stir.ac.uk): Philosophy of Science, Philosophy of Mind.

Logic and Metaphysics
Dr Steinvor Toll Arnadottir (steinvor.arnadottir@stir.ac.uk): Metaphysics of objects.
Dr Aaron Cotnoir (ac17@st-andrews.ac.uk): Metaphysics; Philosophical Logic; Philosophy of Language.
Professor John Haldane (jh1@st-andrews.ac.uk): Philosophy of Mind; Philosophy of Value; Philosophy of Religion; Metaphysics; Mediaeval Philosophy.
Professor Katherine Hawley (kjh5@st-andrews.ac.uk): Philosophy of Science; Metaphysics; Epistemology.
Professor Peter Milne (peter.milne@stir.ac.uk): Formal Logic; Mathematical Logic; Philosophical Logic; Philosophy of Language; Philosophy of Science.

Dr Sonia Roca-Royes (sonia.rocaroyes@stir.ac.uk): Metaphysics; Epistemology of Modality; Philosophy of Mathematics and Logic; Formal Logic and Philosophy of Language.
Professor Peter Sullivan (p.m.sullivan@stir.ac.uk): History of Analytical Philosophy; Philosophy of Logic; Philosophy of Mathematics.

History of Philosophy
Professor Sarah Broadie (sjb15@st-andrews.ac.uk): Classical Philosophy.
Dr James Harris (jah15@st-andrews.ac.uk): Early Modern Philosophy; Enlightenment Philosophy (especially Hume and Reid).
Dr Colin Johnston (colin.johnston@stir.ac.uk): History of Early Analytic Philosophy.
Dr Jens Timmermann (j2@st-andrews.ac.uk): Ethical Theory; Ancient Philosophy; Kant.

Epistemology, Philosophy of Mind and Philosophy of Language
Dr Derek Ball (db71@st-andrews.ac.uk): Philosophy of Mind; Philosophy of Language.
Professor Jessica Brown (jab30@st-andrews.ac.uk): Philosophical Methodology; Epistemology.
Professor Herman Cappelen (hwc1@st-andrews.ac.uk): Philosophy of Language; Philosophical Methodology and related areas in Epistemology, Metaphysics and Philosophy of Mind.

Dr Philip Ebert (p.a.ebert@stir.ac.uk): Epistemology; Philosophy of Logic and Mathematics; History of Analytic Philosophy.
Dr Ephraim Glick (eg35@st-andrews.ac.uk): Philosophy of Language; Metaphysics; Philosophy of Mind; Epistemology.
Dr Patrick Greenough (pmt2@st-andrews.ac.uk): Epistemology; Philosophy of Language; Philosophy of Logic.

Dr Adrian Haddock (adrian.haddock@stir.ac.uk): Philosophy of Mind; Philosophy of Action; Philosophy of Perception.

Dr Philip Ebert (p.a.ebert@stir.ac.uk): Philosophy of Language; Metaphysics.

Assistant with funding your research

SASP Doctoral Studentship
In 2014-2015, SASP will be awarding at least one Full Doctoral Studentship, which covers both maintenance at the AHRC rate and a full fee waiver (at Home/EU fee level) for THREE years. The Home/EU fee waiver can be awarded to an Overseas fee-paying student, who will then be required to meet the remainder of the tuition fee personally.

AHRC Studentships
SASP will support students in their applications for AHRC studentships.

Application deadline for funding
If you wish to be considered for any SASP funding, please indicate clearly in your application whether you are a Home, EU or Overseas applicant. Only applications received before the annual deadline, normally late January, will be considered for funding. We try to allocate funding by mid-March each year. (See: www.st-andrews.ac.uk/~sasp/funding.html)

Other PhD scholarship support
The University of St Andrews has various scholarship opportunities for postgraduate students. Please see pages 10-11. Additional information provided by the University of Stirling can be found at: www.careers.stir.ac.uk/students/funding.php

Tutoring opportunities
The SASP programme provides opportunities for suitably-qualified postgraduate research students, with the consent of their supervisor, to deliver tutorials on sub-honours modules. The allocation of teaching responsibilities is dependent on varying factors and SASP is not in a position to be able to guarantee that all postgraduate research students will be provided with teaching experience during their period of study. It is important to note that it is not possible for a postgraduate research student to fully support themselves by this means.

Careers
The SASP programme has one of the most impressive records of placing its graduates in academic and academic-related positions nationally and internationally. Full details can be found on our placement page at: www.st-andrews.ac.uk/~sasp/placement

Please see page 24 for details of the University’s Careers Centre.
Physics & Astronomy

- The School of Physics & Astronomy has internationally recognised research programmes in astronomy and astrophysics, condensed matter physics, photonics and optoelectronics, biophysics and theoretical physics.
- The School has 28 academic staff, 9 EPSRC, STFC, SUPA and Royal Society Research Fellows, over 40 postdoctoral research associates, and around 75 research students, working in modern laboratories equipped with state-of-the-art facilities.
- Being a member of the Scottish Universities Physics Alliance (SUPA), our PhD students benefit from specialist graduate training through the national SUPA Graduate School. Within SUPA, the school recently received an investment of £12m to expand the astronomy, condensed matter, and photonics research programmes.
- Opportunities for fully funded postgraduate research to PhD level are available in all fields of research within the School. We also participate in three discipline-specific Doctoral Training Centres in condensed matter physics, in photonics and in magnetic resonance.
- Since 2006 our astronomers have discovered over 90 new extrasolar planets that cover the range from gas-giant planets to be eaten by their host star to icy Super-Earths.
- Our experimental physicists have recently attracted funding of over £12m for two major research programmes; one to overcome current limits in the generation, propagation and penetration of light for biological applications, and another to explore the way in which electrons interact in novel materials.
- Our size leads to a friendly atmosphere in group seminars and meetings.

Contact

E: physics@st-andrews.ac.uk
T: +44 (0)1334 463103
www.st-andrews.ac.uk/physics/prosp_pg
Research postgraduate programmes

- PhD (Three and a half years)
- Doctoral Training Centre (Four Years):
  Condensed Matter
  Magnetic Resonance
  Optics and Photonic Technologies (Engineering Doctorate)

ASTROPHYSICS NEWS 1: The search for extra-solar planets, the determination and prediction of their abundance, as well as the understanding of how these form and how life can develop constitute the core research of the SUPA Astrobiology initiative. It will provide clues on how frequent life might be in the Universe and where to look for it. In St Andrews, we are currently carrying out experiments for detecting extra-solar planets based on two different techniques – transits and gravitational microlensing within major international projects. We are also studying debris disks around nearby stars, which constitute candidate systems for the presence of planets.

The School has a thriving community of more than 150 research staff and PhD students, all located within the Jack Allen building on the University’s North Haugh science campus. The research community benefits from its modern well-equipped laboratories, the largest optical telescope in the UK, a class-10,000 cleanroom, on-site library and technical services including a helium liquefier, machine shop and electronics workshop. The staff common room meanwhile provides a relaxed environment for all research staff and PhD students to meet and exchange ideas. Clusters of research groups (for example those in theoretical physics, astronomy, condensed matter, biophotonics) organise regular seminars, both for discussion of research within the school and to bring in external speakers. There is also a weekly research colloquium, in which research leaders from the across the world present their research to a general physics audience.

Researchers here collaborate widely around the University on many interdisciplinary projects. For example, the St Andrews Centre of Magnetic Resonance brings together physicists, biologists and chemists with a mutual interest in the technological development and application of magnetic resonance techniques. The Biophotonics Platform Grant supports collaboration between physicists, biologists and medical scientists to develop new physical techniques for detecting and treating diseases. Notable national and international collaborations include our leading roles in several multi-million pound EPSRC Programme Grants, in the areas of Structured Light, Strongly-Correlated Electron Systems (TOPNES) and Ultra-Parallel Visible Light Communications (UP-VLC), as well as our leadership in UK and European projects on areas including exoplanets, protoplanetary discs, and exciton diffusion in organic semiconductors.

Research facilities and community

SUPA Graduate School

All PhD students in the School are enrolled in the SUPA Graduate School. SUPA (the Scottish Universities Physics Alliance) is a research pooling of eight university physics departments across Scotland. Collectively, SUPA is the largest group of physics researchers in the UK, and provides research funding for the Graduate School, PhD scholarships, new academic appointments, and major research infrastructure (for St Andrews this includes an expanded cleanroom facility, ultralow vibration laboratories and arrays of robot telescopes). The Graduate School provides a broad portfolio of specialist graduate training courses through its suite of interactive videoconference classrooms located in each institution. In doing so, it can make optimal use of the considerable expert knowledge base across SUPA, and achieve a critical mass of students for niche training topics. The Graduate School also delivers training via residential courses, distance learning material and by enabling distinguished visitors to share their expertise. www.supa.ac.uk

The student common room and cafe in the School of Physics & Astronomy

Ultrafast spectroscopy of the excited state physics of organic semiconductors
**Research Centres**

- Centre of Magnetic Resonance (CMR)
- Organic Semiconductor Centre (OSC)
- Photonics Innovation Centre (PIC)

For full details see page 33.

**Photonics Innovation Centre (PIC)**

**Organic Semiconductor Centre (OSC)**

**BIOPHOTONICS NEWS 1: Label-free chemical characterisation of single cells is an important aim for biomedical research.** Standard Raman spectroscopy provides intrinsic biochemical markers for noninvasive analysis of biological samples but is often hindered by the presence of fluorescence background. Researchers in Kishan Dholakia’s group have developed an innovative new modulated Raman spectroscopy technique to filter out the Raman spectra from the fluorescence background. The method is based on the principle that the fluorescence background does not change whereas the Raman scattering is shifted by the periodic modulation of the laser wavelength. In other work the researchers have used related techniques to distinguish different whiskies and detect counterfeits!

**PhD Degrees in Physics & Astronomy**

The School provides an outstanding and stimulating environment in which you can pursue postgraduate research in any one of the many exciting and topical areas of research outlined in the following pages. Opportunities for fully-funded postgraduate research to PhD level are available in all fields of research within the School. Successful applicants for PhD study will normally have a first or upper-second class degree in physics, astronomy, or related subject. If you register for a higher degree by research you normally undertake a three-and-a-half year programme leading to the degree of PhD.

As well as the standard PhD programme in each of our main research areas, the School also participates in three discipline-specific doctoral training centres which provide embedded masters training in the doctoral degree, in three areas of condensed matter physics, photonics and magnetic resonance:

**The Doctoral Training Centre in Condensed Matter Physics (CM-DTC)**

The School leads the Doctoral Training Centre in Condensed Matter Physics, with partners at the University of Edinburgh and Heriot-Watt University. The CM-DTC seeks to attract the very best graduate students, and provides an internationally benchmarked four-year PhD programme of research and training, including graduate-level modules in core condensed matter subjects. The PhD comes with a generous stipend, start-up and conference and travel allowance.

http://cm-dtc.supa.ac.uk

**ST ANDREWS is the lead partner in the £6.8m TOPNES Programme grant, an international research effort in topological states of matter. The ambitious goal of the Programme is to lay the experimental and theoretical foundations for fully quantum mechanical electronics. The team will investigate the potential for performing coherent operations using exotic ‘topologically protected’ states of interacting particles, and advance the quantum non-equilibrium physics that must be understood if we are to have smaller and faster devices.**

**CONDENSED MATTER PHYSICS NEWS: University of St Andrews is the lead partner in the £6.8m TOPNES Programme grant, an international research effort in topological states of matter.**

The ambitious goal of the Programme is to lay the experimental and theoretical foundations for fully quantum mechanical electronics. The team will investigate the potential for performing coherent operations using exotic ‘topologically protected’ states of interacting particles, and advance the quantum non-equilibrium physics that must be understood if we are to have smaller and faster devices.
PHOTONICS NEWS: Researchers in the organic semiconductor optoelectronics group are developing postage stamp sized plastic lasers that can detect very low concentrations of plastic lasers that can detect very low concentrations of explosive vapours. The sensor works by an electron transfer mechanism, from the excited state in the light-emitting polymer onto a nitroaromatic molecule (such as TNT) adsorbed onto the polymer film. When the plastic laser is induced into the polymer film, the explosive vapours act to switch off the laser emission. The researchers are developing these sensors within a European research project, which is developing a toolbox of technologies for humanitarian demining.

Industrial Doctorate Centre in Optics and Photonics Technologies

An Engineering Doctorate (EngD) in Photonics is offered as a four-year postgraduate degree with the research being undertaken within an industrial partner’s laboratories. The EngD degree includes 25% coursework as well as the industrial project. The coursework consists of specialist topics in photonics plus business courses taken at the Edinburgh Business School. The IDC is led by Heriot-Watt University, with other partners at the universities of Strathclyde and Glasgow. www.idcphotonics.hw.ac.uk

Centre for Doctoral Training in Integrated Magnetic Resonance (CDT-iMR)

The CDT-iMR is a collaboration between the universities of Warwick, Southampton, Nottingham, Aberdeen, St Andrews and Dundee and aims to provide a comprehensive graduate training in magnetic resonance spectroscopy and imaging techniques as an integral part of a four-year PhD programme. Research will normally be associated with technique or instrumentation development. The PhD comes with a generous stipend, travel allowance and a guarantee of a placement in industry or an international laboratory.

ASTROPHYSICS NEWS 2: Could lightning storms in clouds made of gemstones hold a clue to the start of life on earth and made of silicates, metal oxides and iron are an important source of charge separation and discharge processes in very low mass, extrasolar objects like M-dwarfs, Brown-Dwarfs, and planets. They aim to model charging, dust formation and sedimentation in such systems, and to investigate the physics of the occurrence of intra-cloud lightning outside our solar system, which could potentially trigger the occurrence of life.

BIOPHYSICS NEWS: A major theme of Graham Smith’s research group is the development of Electron Spin Resonance (ESR) instrumentation, techniques and methodologies at mm-wave frequencies. Applications and collaborations are mainly centred on programmes in molecular biology and understanding of biological processes are supported by state-of-the-art home-built and commercial ESR spectrometers, including the pioneering HIPER spectrometer – a very high power pulsed EPR spectrometer with extremely low deadtime and very high concentration sensitivity.

BIOPHOTONICS NEWS 2: A breakthrough in fibre optic research could allow doctors to peer inside some of the hardest to reach a single optical fibre. Kishan Dholakia and colleague Tomás Chícmár (School of Medicine) have developed a technique which for the first time has allowed the transmission of accurate images along a single strand of fibre optic cable. Until now, attempts to use such narrow fibres to transmit images had always resulted in randomised or entirely scrambled signals. The true picture.

Return to Contents
Astronomy

http://star-www.st-andrews.ac.uk/astronomy

The portfolio of astronomy research in St Andrews is extremely diverse, spanning the full range of contemporary astrophysics from the largest to the smallest scales. Research areas include theoretical cosmology, the formation and evolution of galaxies, star formation, extrasolar planet detection, physics and chemistry of very cool atmospheres, the formation of planetary systems and their discs, radiative transfer in the interstellar medium, and magnetic fields around solar type stars. Research teams approach these topics from theoretical, numerical and observational perspectives.

Professor Ian Bonnell (iab1@st-andrews.ac.uk):
Dynamics of star formation and of young stellar systems; Star-star collisions; Formation of high mass stars and multiple stellar systems.

Professor Andrew Cameron (acc4@st-andrews.ac.uk):
Exoplanet atmospheres, radial-velocity studies; Doppler tomography; Echelle spectroscopy; Magnetic activity; Optical spectroscopy; Planetary systems: formation; Planets: extra-solar; Stars: magnetic fields; Stars: rotation; Starspots.

Dr Claudia Cyganowski (cc243@st-andrews.ac.uk):
Observational studies of massive star formation; (Proto)stellar feedback; Star formation in clustered environments; Astrochemistry; Cm-(sub)mm wavelength interferometry.

Dr Martin Dominik (md35@st-andrews.ac.uk):
Detection and characterisation of extra-solar planets by means of gravitational microlensing; Determination of abundance of galactic and extra-galactic planets; Modelling of photometric and astrometric microlensing events and development of required numerical algorithms, intelligent real-time scheduling on robotic telescope networks; Lucky imaging.

Dr Jane Greaves (jsg5@st-andrews.ac.uk):
Astrobiology, Star formation, Planetary disc formation.

Dr Scott Gregory (sg64@st-andrews.ac.uk):
Stellar and planetary magnetism; Protoplanetary disks; PMS & low mass MS stars; Stellar coronae; Stellar rotation; Accretion and outflow models; Star formation; X-ray emission and flares.

Dr Christiane Helling (ch80@st-andrews.ac.uk):
Atmospheres of extrasolar planets and brown dwarfs; Cloud formation and their effects on the atmosphere; Lightning and charge separation in dust environments.

Professor Keith Horne (kdhj@st-andrews.ac.uk):
Extra-solar planets; Robotic telescopes; Accretion disks; Cataclysmic variables; Active galactic nuclei; X-ray binaries; Black holes; Magnetic activity; Magnetic accretion; Doppler tomography; Eclipse mapping; Echo mapping; Gravitational lensing; Cosmology; Conformal gravity; Maximum entropy methods; Data analysis techniques, Statistics; Virtual reality.

Professor Moira Jardine (mmnj@st-andrews.ac.uk):
Theoretical studies of stellar magnetic fields; Early rotational evolution of the solar system; Formation of planetary systems.

Dr Aleks Scholz (as110@st-andrews.ac.uk):
The star-planet connection; Formation and early evolution of stars, brown dwarfs, and planets; Star formation in diverse environments; Time-domain studies of young stellar objects; Accretion, outflows, and magnetic activity; Angular momentum regulation in stars; Weather in dusty environments.

Dr Aline Vidotto (Aline.Vidotto@st-andrews.ac.uk):
Stellar winds of cool stars; Interaction of host star’s wind with surrounding planets; Planetary and stellar magnetic fields.

Dr Anne-Marie Weijmans (amwj2@st-andrews.ac.uk):
Structure and evolution of galaxies; Properties of dark matter haloes; Properties (age, metallicity) of the stellar halo population.

Dr Vivienne Wild (vw8@st-andrews.ac.uk):
Evolution of galaxies: Observations of recently formed galaxies in high redshift surveys; Stellar population archaeology in low redshift surveys; Multi-wavelength observations using space and ground based telescopes; Galaxy evolution models.

Dr Peter Woitke (pww31@st-andrews.ac.uk):
Computational modelling of low-energy astrophysical objects, such as protoplanetary discs; Atmospheres of brown dwarfs; Simulations of dust-driven AGB star winds.

Dr Kenneth Wood (kw25@st-andrews.ac.uk):
Simulations of transport of light through three-dimensional astrophysical systems comprising dust and gas; Tests theories for the structure, evolution, and composition of protostellar clouds and disks that provide the seeds for star and planet formation.

Dr Hongsheng Zhao (hz24@st-andrews.ac.uk):
Dark matter; Alternative theories of gravity e.g. TeVes.

Condensed Matter Physics

www.st-andrews.ac.uk/physics/condmat

Condensed Matter Physics research in St Andrews covers some of the most important contemporary topics in the field, including theoretical and experimental studies of the physics of correlated electron systems, quantum coherence, superconductivity, magnetism, polaronics and cold atoms. There is extensive experimental infrastructure to support these areas, including a state-of-the-art angle resolved photoemission facility, low-temperature STM’s, several cryomagnets systems including a high-field vector magnet, high field NMR and EPR spectrometers and, in collaboration with the School of Chemistry; a SQUID magnetometer, a high resolution electron microscope and X-ray diffraction facilities.

Dr Donatella Cassettari (dc43@st-andrews.ac.uk):
Bose-Einstein condensation in dilute atomic gases; Study of strongly correlated many-body quantum mechanics; Implementation of quantum information processing with neutral atoms.

Dr Chris Hooley (cch19@st-andrews.ac.uk):
Theoretical condensed matter physics; The quantum many-body problem; Vortex-mediated melting in layered systems with competing orders; The effect of the trapping potential on the many-body physics of ultracold atomic gases; The interpretation of partition function zeros at complex temperature; Majorana-paired mean-field states in magnetic systems; Spin-orbit interaction in the jellium model; Formation of edge states in topological insulators.

Dr Jonathan Keeling (jmkj@st-andrews.ac.uk):
Quantum states and dynamics of non-equilibrium systems, in particular coupled matter-light systems; Problems in microcavity polaritons (coupled exciton-photon systems); Cold atoms in optical cavities; Superconducting qubits in microwave cavities. We seek to understand how quantum coherence behaves out of equilibrium and how it can be dynamically controlled.

Professor Steve Lee (sl10@st-andrews.ac.uk):
Microscopic probes (neutrons, muons, synchrotron radiation) applied to superconducting and magnetic systems. Superconductivity: vortex matter, thin films, multilayer, magnetic-superconducting hybrid systems, mesoscopic systems. Magnetism: magnetic structures of single crystals, multilayers, magnetic-superconductor interface, magnetic recording media, artificial multiferroics, artificial spin-ice systems and other lithographically generated nanostructures.

Dr Brendon Lovett (email tbc):
Theoretical studies of quantum coherence in condensed matter systems; Optical control of electron states; Electronic coherence with environmental interactions, quantum computing; Quantum memory; Quantum biology- how quantum coherence can help birds with navigation and the role of quantum mechanics plays in photosynthesis.

Professor Andrew Mackenzie (apm9@st-andrews.ac.uk):
The physics of correlated electrons, magnetism and superconductivity, many-body quantum states, low temperature properties of extremely pure oxide metals, magnets and superconductors.

Dr Peter Wahl (gpw2@st-andrews.ac.uk):
Tunneling Spectroscopy of Strongly Correlated Electron Materials; Kondo effect of single magnetic atoms at metal surfaces; Competition between magnetism and electron correlations in coupled impurities leading, e.g., to quantum critical behaviour; Bulk correlated electron systems (high temperature superconductors, heavy fermion systems, iron-based superconductors).

Dr Ed Yelland (eay1@st-andrews.ac.uk):
Condensed matter physics; Quantum criticality; Superconductivity.
Photonics, Optoelectronics and Biophysics
www.st-andrews.ac.uk/physics/pandawebl/research/photons

St Andrews Photonics research covers a wide range of areas from the basic science of the interaction of light and matter, through to the development of photonic devices for particular applications. St Andrews has a long history of international leadership in the field of laser physics, which is now expanded today to include the burgeoning fields of biophotonics, nanophotonics and organic electronics. Research in biophysics has a focus on photonic techniques for detection and treatment of disease, and also includes electron spin resonance techniques using world-leading millimetre-wave instrumentation.

Dr Tom Brown (ctab@st-andrews.ac.uk):
Ultrafast lasers; Biophotonics,

Dr Andrea Di Falco (adf10@st-andrews.ac.uk):
Synthetic optics; Flexible metamaterials; Nano-plasmonics; Photonic crystals; Transformation optics; Grayscale lithography. Applications including imaging, sensing, bio-photonics and nonlinear optics.

Professor Kishan Dholakia (kld1@st-andrews.ac.uk):
Optical micromanipulation techniques; Investigation of novel light fields; Characterisation of particle dynamics (at the atomic, nano, and micron scale) in optical light fields; Optical traps within microfluidic environments; Novel laser techniques for cell biology and medicine.

Professor Malcolm Dunn (mhd@st-andrews.ac.uk):
Nonlinear optics; Solid-state laser physics; Frequency conversion of coherent laser sources; Optical parametric oscillators; Terahertz generation; Frequency comb generation; Gas imaging.

Professor Malte Gather (mcm6@st-andrews.ac.uk):
Biophotonics, biological lasers; Organic semiconductors; OLEDs; Plasmonics.

Dr Friedrich Koenig (fewk@st-andrews.ac.uk):
Quantum Optics; Hawking radiation; Event horizons; Analog Gravity; Few-cycle Pulses in Fibres; Fibre-optical black holes; Non-linear Fibre optics; Solitons.

Dr Natalia Korolikova (nvk@st-andrews.ac.uk):
Theoretical quantum optics and quantum information; Continuous variable quantum information; The creation of light-matter interface and quantum memory of light.

Dr Janet Lovett (email tbc):
Electron spin resonance for biomolecular structure determination; Protein structure investigations; Development of new spin labels and methods of spin labelling.

Dr Michael Mazzu (mm17@st-andrews.ac.uk):
Fundamental and applied photonics; Optical eigenmodes for beating the diffraction limit; Subwavelength focusing; Optimised structured illumination; Compressive imaging; Micromanipulation; Crosstalk free coherent control; Raman imaging.

Dr Liam O’Faolain (jw1@st-andrews.ac.uk):
Silicon photonics; Photonic crystals; Optical modulators.

Dr Carlos Penedo-Esteiro (jc10@st-andrews.ac.uk):
Novel biophysical techniques; Single-molecule detection techniques; Biomolecular interactions including proteins; DNA and RNA at the level of individual molecules; Real-time monitoring of the behaviour of individual biological molecules and complexes, in vitro and in live cells.

Professor Ifor Samuel (idws@st-andrews.ac.uk):
Organic semiconductor materials and devices; OLEDs, solar cells, lasers, photophysics including time resolved luminescence from femtosecond to microsecond timescales, development of advanced materials, emerging applications of organic semiconductors such as explosive sensing and skin cancer treatment, applications of fluorescence in medicine and biology.

Dr Graham Smith (gms@st-andrews.ac.uk):
Electron spin resonance for bimolecular structure determination and materials research; High sensitivity mm-wave magnetic resonance instrumentation; mm-wave radar systems; mm-wave instrumentation; Systems and components.

Dr Graham Turnbull (gat@st-andrews.ac.uk):
Photonic applications of soft materials; Nanophotonics; Organic lasers; Explosive vapor sensors; Nanoimprint lithography; Hybrid optoelectronics; Photophysics of organic semiconductors; OLEDs; Polymer nanofibers.

Financial assistance for PhD degrees

A number of EPSRC and STFC funded research studentships, covering fees and maintenance for UK students and fees-only for EU students, are available each year for suitably qualified graduates who hold a relevant First Class Honours degree or a 2.1 (or equivalent level) with a strong project performance. Other studentships and scholarships are also available and the latest information on these and other matters can be obtained from our web pages, and those of relevant research groups. Home students typically receive full funding provided from our research council allocation or research grants. The funding level is at the RCUK standard rate (currently around £13,700 per annum).

There are also several routes to fund overseas students. While some can be funded through research grants or University Scholarships, others receive support from a combination of sources, including an element of self-funding, scholarships from their home countries, or via cotutelle arrangements with partner universities. Overseas students are encouraged to apply for studentships provided by SUPA. The deadline is at the end of January each year and more information is provided at: www.supa.ac.uk

Additionally, the University website lists a number of external funding opportunities for overseas students: www.st-andrews.ac.uk/scholarships

Careers

A PhD in physics or astronomy can prepare you for a broad range of careers in science, industry, commerce and education. Many of our PhD graduates find jobs as researchers in universities or national laboratories/observatories. Others begin careers in industrial research, sales or marketing, careers in patents law, the financial sector, teaching and the media. In partnership with the Careers Centre we can help, advise and support you on your career options. The School runs general careers fairs for our students and specific presentations providing advice on how to develop an academic career.
The School of Psychology & Neuroscience has approximately 40 academic staff, 100 postgraduate students, 20 postdoctoral researchers and 8 technicians. We admit in the region of 10-15 new research postgraduates each year. The School has an international reputation (RAE 2008) for the quality of its teaching and research and has some of the best psychological laboratory facilities in the UK. The breadth and variety of psychology and neuroscience taught in the School is a particular strength, with significant opportunities to collaborate and benefit from a range of techniques applied to understanding the behaviour of humans and other animals. An emphasis on ‘doing’ not just listening: we equip you to ask and answer psychological questions. Psychology in St Andrews has maintained its position as one of the UK’s top psychology departments in the most recent Research Assessment Exercise. We remain the top psychology department in Scotland and ranked seventh out of 76 psychology departments in the UK. 100% of our overall returns were ranked at ‘international’ level and all our lecturing staff were included in the assessment.

Our standing as a centre for research excellence is illustrated by the fact that we regularly attract funding from UK research councils, Leverhulme Trust, Royal Society of Edinburgh, the European Union, the Wellcome Trust, the Carnegie Trust and industry. Consequently, we have a large and thriving community of research staff and postgraduate students. We believe that good teaching and good research go hand-in-hand and we take pride in our research-based culture of teaching. Up-to-date information about the School can be obtained by visiting our web pages (see below).

Contact
E: pgsecpsych@st-andrews.ac.uk
T: +44 (0)1334 462157
www.st-andrews.ac.uk/psychology/research
We are equipped with modern technology to perform virtually all aspects of psychological research. Facilities include laboratories in neurophysiology, psychopharmacology, psychophysics, animal learning and cognition, cognitive psychology, developmental psychology and social psychology. We have extensive computing facilities for both online control of experiments and offline analysis of data.

The School’s size promotes a friendly atmosphere with a cross-flow of ideas while providing the depth and breadth necessary to pursue major scientific programmes at an international level. We have active links with other Schools and Departments within the University, with other Scottish universities and with research institutions outside the UK. Examples include the Scottish Vision Group (http://svg.psy.gla.ac.uk), the Centre for Social Learning and Cognitive Evolution (http://culture.st-andrews.ac.uk/solace), the Scottish Primate Research Group (www.st-andrews.ac.uk/psychology/research/sprg), the Social Dimensions of Health Institute (www.sdhi.ac.uk), the Tayside Social group, and the Institute for Behavioural and Neural Sciences at the University of St Andrews (http://ibans.st-andrews.ac.uk).

There is also an active collaboration in neuroscience with Emory University’s Neuroscience and Behavioral Biology program (www.nbb.emory.edu). We offer excellent opportunities for fieldwork ranging from primate ethology in Africa to observations in zoos throughout the UK. For clinical, neuropsychological, and developmental research, we have excellent working relationships with a number of hospitals and schools.

For each PhD and MPhil student, there is an individualised programme of study including formal courses, seminars and tutorials. For the MRes degree, students attend interdisciplinary courses in the social sciences as well as courses in core fields of Psychology. All students prepare a thesis at the end of the first year which is examined within the School. Your overall performance will be evaluated at the end of the first year. For the MRes degree, your thesis and coursework must demonstrate expertise in research design and analysis. For the MPhil degree, your thesis and coursework must demonstrate your expertise in both psychological research and theory. For the doctorate, the work must be of a quality that justifies permission to proceed to the final years of the PhD programme. Except in the case of part-time students, PhD students are strongly encouraged to complete their work and present their dissertation within a three-year period.

For full details see page 33.
Neuroscience
Research is aimed at an understanding of how particular brain systems function to control and regulate behaviour.

Dr J Ainge (ja7@st-andrews.ac.uk): The neural basis of episodic and spatial memory systems. Specifically examining the internal spatial representations (cognitive maps) that animals form of familiar environments and how these may be used to encode information about experiences that occur in those places.

Dr E Bowman (emb@st-andrews.ac.uk): Information processing within reward and motivational systems of the mammalian forebrain. The effects of abused substances on the neural systems that respond to natural rewards, the role of reinforcement learning in the formation of habits, and neuropsychological analysis of incentive motivation.

Professor V Brown (vjb@st-andrews.ac.uk) (Head of School): The neural basis of attention: investigation in the rat of the functions of frontal cortex and the basal ganglia.

Dr G Doherty (gdmh@st-andrews.ac.uk): Control of neuronal survival during development, ageing and neurodegeneration; Role of peripheral metabolism in the susceptibility to neurodegenerative diseases and age-related change in the nervous system; Pharmacological strategies to prevent neuronal death and boost neuronal function.

Dr W Li (iw21@st-andrews.ac.uk): The neural basis for swimming behaviour in an early developing vertebrate. The co-release of classical neurotransmitters and their physiological roles.

Dr G Miles (gjm@st-andrews.ac.uk): Neuronal circuits of the brainstem and spinal cord that control rhythmic motor behaviours such as respiration and locomotion. The mechanisms of diseases underlying disorders, such as Amyotrophic Lateral Sclerosis, which affect motor control systems.

Professor K Sillar (kts1@st-andrews.ac.uk): Development and function of spinal motor control networks with a focus on the role of neuromodulation. The role of ion pumps in short term memory of network function.

Dr K Spencer (kas21@st-andrews.ac.uk): Behavioural endocrinology and neuroendocrinology, focusing on the long-term effects of developmental environments on the hypothalamic-pituitary-adrenal axis and related physiological systems. Developmental programming of animal learning and cognition and the evolution of complex acoustic signals, such as bird song.

Origins of Mind
Research includes studies of social learning, communication and other aspects of social and physical cognition in human children and non-human species, including primates and non-primates both in field and laboratory conditions.

Dr G Brown (ggb@st-andrews.ac.uk): Development of sex differences in behaviour and cognition in primates and other mammals; The evolution of sex differences in human behaviour and cognition; Behavioural endocrinology.

Professor R Byrne (rwjb@st-andrews.ac.uk): Evolution of cognitive and social skills using behavioural data from non-human primates and other animals. Currently: Route planning, praxic skills and gestural communication in primates; Cognition in domestic pigs and wild elephants.

Dr J C Gómez (jgs@st-andrews.ac.uk): Intentional communication and theory of mind in non-human primates; Evolution of primate brains and minds. Development of prelinguistic intentional communication; understanding and theory of mind; Autism; Comparative cognitive development.

Dr C Hobaiter (chb42@st-andrews.ac.uk): Evolution of communication and social behaviour in primates, particularly gestural and vocal communication in wild chimpanzees.

Dr A Seed (ams18@st-andrews.ac.uk): Evolutionary origins of conceptual thought and causal knowledge, combining developmental and comparative studies of physical problem-solving in primates and children.

Professor A Whiten (aw2@st-andrews.ac.uk): Observational and experimental studies of social learning and cultural transmission. Observational learning, imitation, theory of mind and its precursors in children and juvenile monkeys and apes.

Professor K Zuberbühler (kz3@st-andrews.ac.uk): Cognitive capacities of non-human primates. Semantic and syntactic understanding in the vocal behaviour of non-human forest primates.

Human Cognition / Cognitive Neuroscience
Current cognitive research includes work on autobiographical memory, visuo-spatial working memory, inhibitory mechanisms in long-term memory, and the modelling of memory and knowledge systems.

Dr M Campbell (mcl@st-andrews.ac.uk): Cognitive representations of challenging behaviour in staff, and how this impacts on the quality of care that people with disabilities experience.

Dr B Dritschel (bd9@st-andrews.ac.uk): Mood and memory; Problem-solving; Effects of neurological impairment; Eating disorders; Cognitive processing.

Dr I Jentsch (ij7@st-andrews.ac.uk): Cognitive and neuroscientific (EEG) study of attention and performance: cognitive control, effects of event history and expectancy in decision making, and planning and control of voluntary movements, and how these processes change as a function of expertise, normal aging and psychological illness.

Professor M MacLeod (mdm@st-andrews.ac.uk) (Provost of St Leonard’s College – Dean of Graduate Studies): Social memory; Goal-directed forgetting; Social comparison processes and the perception of relative deprivation.

Dr A O’Connor (aro2@st-andrews.ac.uk): Cognitive and neuroscientific (fMRI) studies of recognition; Memory decision-making; Subjective memory sensation; Mathematical modelling of memory processes.

Dr G Quinn (ggq@st-andrews.ac.uk): Visual aspects of working memory and the nature of visuo-spatial processing.

Dr R Sprengelmeyer (rh3): Clinical and cognitive human neuropsychology (deficits associated with basal ganglia disorders) and neuropsychiatry (neuropsychiatric disorders).

Social Psychology
Research in this area covers a wide range of issues includes collective behaviour and national identity, social identities, intergroup relations and contact, the psychology of stigma and helping behaviour.

Dr K Mavor (Ken.Mavor@st-andrews.ac.uk): Social and personal identity and implications for social and political attitudes, approaches to learning and wellbeing: The nature of religious and political ideologies and contested social attitudes; The cognitive processes and representations of self and social categories, and implications for person and group perception.

Professor S Reicher (sdr@s-st-andrews.ac.uk): Group processes and collective behaviour; Processes of mass social influence and political rhetoric; Psychology of social change.

Dr S Sheikh (ss96@st-andrews.ac.uk): Moral psychology; Motivation and emotion; Social developmental and relational processes; Gender psychology.

Dr N Tausch (nt20@st-andrews.ac.uk): Intergroup relations and conflict; Prejudice and discrimination; Contextual and psychological factors involved in political action and political violence; Intergroup contact and social change; Social perception and trait attribution.

Perception
Current research in perception includes work on the recognition of faces, objects and actions, and the perception of shape, space and layout.

Dr P Földiak (pf2@st-andrews.ac.uk): Computational (e.g. neural network) approaches to modelling cortical function, especially vision, pattern recognition and semantic memory.

Professor J Harris (jh81@st-andrews.ac.uk): Visual perception using psychophysical and visuo-motor measures to study: binocular vision, vision and driving, vision and sport, three-dimensional motion perception, heading perception, animal camouflage.

Dr M Oram (mwo@st-andrews.ac.uk): Constraining models of visual processing using the relationship between different aspects of neural activity – the ‘neural code’ – and the input stimulus.

Professor D Perrett (dp@st-andrews.ac.uk): Perception of faces, intention and emotion; Mate selection and attraction to facial characteristics; The role of development, environment, hormones and evolution in shaping faces, mate preferences and sexual strategies; Facial clues to health, arousal and behaviour.

Dr D Vishwanath (dv10@st-andrews.ac.uk): 3D visual cognition; Visuomotor control; Eye movement; Visual displays.
Financing your research studies

While some candidates are able to make their own financial arrangements, either privately or with the help of overseas government agencies, several sources of support are available to cover or contribute to fees and personal maintenance for postgraduate students.

Please note that the offer of a University place to undertake research or further study does not carry with it the guarantee of financial support. You will be required to support yourself or apply to a grant awarding body. (Please refer to: www.st-andrews.ac.uk/admissions/pg/financialinformation for information on current tuition fees and grants available).

The School applies annually to the various UK research councils for research studentships. In this way we have obtained funds for studentships from the MRC, BBSRC, ESRC and EPSRC. This funding is offered to the most promising candidates in any given year. In addition, ‘earmarked’ studentships are often awarded to the School, linked to particular research projects and/or particular supervisors.

In recent years we have been able to offer at least five awards of different kinds each year. Eligibility for research council studentships is restricted to EU applicants. Only UK citizens are eligible to receive the full maintenance grant. Non-UK students, however, are generally eligible for University or School-funded scholarships. Possible sources of funding include:

- UK research council studentships, as noted above.
- The University of St Andrews itself awards a small number of research scholarships to outstanding candidates. These are open to all students. If you are interested in applying for such support, we would recommend that you apply early.
- The Carnegie Trust offer postgraduate scholarships. A prerequisite is a First Class Honours degree from a Scottish university.

You should also contact the Postgraduate Admissions Officer in the School. The closing dates will be listed on the School’s web pages. St Andrews has various scholarship opportunities for prospective St Andrews postgraduate students.

Careers

We see postgraduate study as part of your long-term career development. Alongside the University’s Careers Centre, we offer advice and support in planning your career. The School provides opportunities to gain experience of working in an academic context, by being involved in tutorials, laboratory classes and other aspects of academic work. The vast majority of our postgraduates have gained postdoctoral and lecturing positions in universities across the world while others have jobs in healthcare (as researchers and clinicians), wildlife conservation, information technology and management services.
Social Anthropology

• Social Anthropology was established in 1979, and is now a constituent department in the University’s School of Philosophical, Anthropological & Film Studies, with a staff of 14.
• At any one time around 50 postgraduates are registered in the Department, of whom 40 are research postgraduates.
• Teaching at all levels is informed by the research interests and accomplishments of lecturing staff.
• The Department and Research Centres regularly host international conferences.

Contact
E: socanthadmin@st-andrews.ac.uk
T: +44 (0)1334 462977
www.st-andrews.ac.uk/anthropology/

Research community

Many students are from abroad and are undertaking a varied range of taught courses and research programmes. Those returning from, or preparing to go into, the field form an active community with a wide range of diverse geographical and substantive interests.

You will participate in annual workshops organised by the Department, jointly with the Anthropology Departments of the universities of Aberdeen, Edinburgh & Glasgow under the Scottish Training in Anthropological Research (STAR) programme. These workshops provide opportunities for informal presentations of research proposals, discussions relevant to your fieldwork preparations (e.g. ethics, data collection, writing field notes). The exploration of creative ways of learning is held in a relaxed yet focused environment, together with members of staff and PhD students from each of the universities. The training workshops last for four days and take place in a beautiful countryside location. They act as complementary elements of the postgraduate training programme, and are organised in consultation with postgraduate students themselves, according to their perceived needs and wishes. In addition, there are shorter workshops which take place throughout the year and are designed to develop theoretical perspectives in anthropological research.
Facilities

The Department of Social Anthropology occupies an extensive suite of offices on North Street and in the mediaeval St Salvator’s College. It is well situated in the centre of town and at the geographical heart of the University. The Centre for Amerindian Studies has its own set of rooms within the Department, including a reading room that holds a library for Latin American and Amerindian studies. Postgraduate students also have their own area within the Department, which includes a computer room, and three further rooms reserved for their use. Within Social Anthropology there is also a museum collection of ethnographic objects and a common room, providing a space that is shared by both staff and postgraduates. The Departmental libraries, along with the main library, which holds a fine anthropology collection, include materials from all ethnographic regions of the world.

Our research focus

Research here is especially concerned with the scrutiny and creation of qualitative methodology and with its application to comparative analysis. The criticism of sources and testimonies provides a link between the interpretive and historical interests of the Department. One focus is upon indigenous and individual understandings of social reality, and everyday constructions of cultural meaning as embodied in diverse forms of social life, discourse, and practice, and the problems and possibilities of their comprehension and translation by others. This is balanced by attention to problems of social change, and to the semantic, sociological and historical contexts from which the active participation of ethnographic subjects in the world can emerge.

More recent developments are philosophical anthropology, anthropology of knowledge, literature and anthropology, the ethnography of aesthetics and emotions, representation in history and anthropology, and phenomenological anthropology. A number of topical themes, such as ‘the market’, new religious movements, material culture, peace and violence, the State, colonialism and post-colonialism, identity politics and history, gender and egalitarianism, hierarchy and ritual, conviviality and trust, agency and convention, memory and the past, Internet & visual anthropology, embodiment and childbirth, and anthropology as a moral endeavour are also being addressed in Departmental research.

Supervision and support

You are allocated a supervisor, who directs and monitors your programme of work and supervises the dissertation or thesis. University guidelines stipulate that students and supervisors should be in regular contact and in addition that your progress be subject to an annual review by the Departmental Postgraduate Committee. The Committee authorises your progress to the next year of study. As part of your programme you are expected to attend and contribute to a weekly postgraduate seminar, and also to attend the Departmental ‘research’ seminar at which the speakers are normally outside visitors. These seminars are intended to enrich your intellectual experience, to provide a forum for the discussion of students’ ideas and findings and to help enhance postgraduate solidarity.

Postgraduate supervision in the Department includes anthropological theory, symbolic systems, ethnohistory, urban anthropology, economic anthropology and ecology, hunting and gathering societies, and development. Regional specialisms are concentrated on Africa, the Amazon, the Andes, the Caribbean, Europe (especially the British Isles, Spain) and Gypsies, Melanesia and the Pacific, and the Middle East. We are especially interested in your substantive and theoretical interest, which is a main criterion for entry, and enquiries are welcomed from prospective postgraduates with regional interests different from the above. We maintain close relations with kindred disciplines, especially Philosophy, Modern Languages, History and Geography & Geosciences. The structure of postgraduate studies in the University allows for the possibility of inter-departmental supervision of research projects of an interdisciplinary nature.

Weekly research seminars are organised by both the Department and sometimes also organised by the Research Centres, and include speakers from outside St Andrews and abroad, thus enriching the intellectual environment. Social anthropologists from other UK departments, and beyond, visit and contribute to our series of seminars, and to workshops and conferences arranged by staff members and by research students. We endeavour to create a warm and friendly atmosphere and this also contributes towards maintaining a high quality of teaching and intellectual exchange.

International conferences
An important element in fostering the Department’s international reputation has been a series of international conferences, each of which has considered an important contemporary theoretical issue within the discipline. These have dealt with, for example, The Anthropology of Violence; Power and Knowledge; Localising Strategies; the Concept of the Market; the Problem of Context; Kingship; the Anthropology of Love and Anger; Ways of Knowing; An Epistemology of Anthropology; Cosmopolitanism; Imagination; Liberties & Freedoms. The Ladislav Holy Memorial Trust plays an important supportive role for many of these conferences. From time to time distinguished scholars are appointed to the St Andrews Visiting Professorship in Social Anthropology and each year members of the international academic community join the Department to follow postdoctoral work and other research endeavours. Such visiting scholars greatly enhance the thriving research environment.
Research Centres

Research Centres play an important role in the liveliness of the Department’s research life, and are related to Social Anthropology’s programme of rethinking key aspects of the nature of interpretative and historical anthropology, which constitute the cornerstones of the Department’s theoretical orientation.

- The Centre for Amerindian, Latin American and Caribbean Studies (CAS)
- The Centre for Cosmopolitan Studies (CCS)
- The Centre for Pacific Studies (CPS)

For full details see page 32.

Amazónian imaginings

Research areas

Dr S Bunn (sjb20@st-andrews.ac.uk): Research on pastoral nomadism; Material culture; Human-environment relationships; Learning and skill; Childhood, space and perception; Vernacular architecture. Area speciality: Post-Socialist Eurasia. Attached to the Centre for Cosmopolitan Studies.

Dr T Crook (tony.crook@st-andrews.ac.uk): Research on ritual; Knowledge practices; Embodiment; Kinship; Visualism; Advocacy; Development. Area speciality: New Guinea. Attached to the Centre for Pacific Studies.

Professor R Dilley (rmd@st-andrews.ac.uk): Research in social theory and method; Anthropology and history; Economic anthropology; Cosmology and religion; Islam and artisanship; Politics and power. Area specialities: West Africa, Ireland, Scotland.

Dr S Frankland (mcfl@st-andrews.ac.uk): Research in tourism; Development; Mythology; Representation. Area speciality: East Africa.

Dr M Fumanti (mfo1@st-andrews.ac.uk): Fieldwork in Rundu; Northern Namibia, among Ru- Kavango speakers, and London. Research interests include Elites; Associational life; Youth; Masculinities; Moralities; Christianity and migration; Urban anthropology and postcolonialism. Area specialities: Southern Africa and Britain. Attached to the Centre for Cosmopolitan Studies.

Dr P Gay y Blasco (pgyb@st-andrews.ac.uk): Research in feminist theory; Religion; Sex and gender; Kinship; The body. Area specialities: Spain, the Mediterranean. Attached to the Centre for Cosmopolitan Studies.

Professor P Gow (pgg2@st-andrews.ac.uk): Research on myth; History; Kinship; Aesthetics and the anthropology of art. Area speciality: Amazonia. Attached to the Centre for Amerindian, Latin American and Caribbean Studies.

Dr M Harris (mh25@st-andrews.ac.uk): Research on the anthropology of identity; Anthropology of history and anthropology; Peasantries; Experience; Methodological issues in the social sciences. Area specialities: South America, Brazilian Amazon. Attached to the Centre for Amerindian, Latin American and Caribbean Studies & the Centre for Cosmopolitan Studies.

Dr S Hyland (spbh@st-andrews.ac.uk): Research on Andes, Peru, Inkas; Ethnopoetics; Historical anthropology; Literacy; Writing and politics; Ancient scripts. Attached to the Centre for Amerindian, Latin American and Caribbean Studies.

Dr P Khosronejad (pk18@st-andrews.ac.uk): The anthropology of death and dying; Visual anthropology; Nomadism and pastoralism; Indigenous religions; Material culture, and popular culture. Area speciality: Islamic world.

Dr C Lind (ct13@st-andrews.ac.uk): Research on Vanuatu; Personhood, gender; migration; The problems of multi-sited fieldwork; Small island ethnography; Urban ethnography; Practices of self description and indigenous localising practices. Attached to the Centre for Pacific Studies.

Dr S Pipprou (sp78@st-andrews.ac.uk): Italy, Greece, Turkey; Linguistic Minorities, Mafia and ‘Illegal’ Organisations; Civil Society; Power and Governance; Kinship and Relatedness; Refugee Identity; Anthropology of Dance. Attached to the Centre for Cosmopolitan Studies.

Professor T Platt (tp@st-andrews.ac.uk): Director of CAS: Research on anthropology and history; Orality and literacy; Postcolonialism; Ethnicity and nationalism; Temporalities; Childbirth practices; Performance. Area specialities: South America, Quechua, Andes, Bolivia. Attached to the Centre for Amerindian, Latin American and Caribbean Studies & the Centre for Cosmopolitan Studies.

Professor N Rapport (nj2@st-andrews.ac.uk), Director of CCS: Research on individuality; Globalism; Semantics; Literary anthropology; Consciousness and narrative; Medical anthropology. Area specialities: England, Newfoundland, Israel and Scotland. Attached to the Centre for Cosmopolitan Studies.

Dr A Reed (ader@st-andrews.ac.uk): Cultures of punishment; Postcolonial institutions; Literate and literary cultures; Urban anthropology; New media; History of anthropology. Area speciality: Melanesia. Attached to the Centre for Pacific Studies & the Centre for Cosmopolitan Studies.

Professor C Toren (ct51@st-andrews.ac.uk): Exchange processes; Spatio-temporalities as a dimension of human being; Sociality, kinship and ideas of the person; The analysis of ritual; Epistemology; Ontogeny as an historical process. Area speciality: Fiji and the Pacific, and Melanesia. Attached to the Centre for Pacific Studies.

Dr H Wardle (hobw@st-andrews.ac.uk): Cosmopolitanism; Diaspora; Comedy; Ethics; Aesthetics. Area specialities: Jamaica, the Caribbean. Attached to the Centre for Amerindian, Latin American and Caribbean Studies & the Centre for Cosmopolitan Studies.
Departmental assistance with funding

For the most current information on funding and scholarships go to: www.st-andrews.ac.uk/scholarships

To defray some of the costs of postgraduate study and fieldwork:

1) The Department award studentships on a regular basis.
2) You may apply to the Department for work as a Teaching Assistant. Such tutorial work is payable at around £25 per hour.

Careers

Social Anthropology graduates have characteristics many employers seek and a Social Anthropology degree provides openings to a wide range of careers.

- **Private Organisations**: can use the skills of Social Anthropologists doing research for urban planning, working with health organisations, doing market research for advertising companies, training employees who will be working in international divisions, or working in human resource departments.
- **Government Agencies**: can employ Social Anthropologists as policy researchers, research analysts, evaluators, managers, planners and policy makers.
- **International Organisations**: can employ anthropologists in projects in various countries around the world as researchers and cultural brokers.
- **Non-profit Agencies**: can employ Social Anthropologists as advocates, administrators, evaluators and researchers.
- **Graduate Employers**: 70% of graduate jobs are for students from any discipline, Social Anthropologists successfully move into teaching, law, finance, HR, marketing or PR.

Well known St Andrews Social Anthropology graduates:

- **Saba Douglas-Hamilton** – wildlife conservationist & BBC presenter
- **Nicolas Argenti** – anthropologist
- **Alexander Schulenburg** – historian, independent scholar and activist for the British overseas territory of St Helena
- **Nicholas Barker** – journalist: winner of The Independent Young Journalist of the Year.

Well known people who studied Social Anthropology:

- **Kurt Vonnegut** – writer
- **Thandie Newton** – film actor
- **Gillian Tett** – financial journalist
- **Steve Riggio** – founder of Barnes and Noble
- **Anthony Gormley** – artist
- **Yo-Yo Ma** – musician
- **Mario Vargas Llosa** – writer and politician
- **Tracey Chapman** – musician
Sustainable development problems do not fit into neat boxes. We will develop your ability to understand the complex nature of these problems and how to create strategies that will allow you to overcome them, both now and in the future.

• We prepare you for doctoral research in the area of sustainable development – a tailored and ESRC accredited suite of research methods training modules allow you to conduct detailed research projects on state-of-the-art theoretical, methodological and conceptual approaches towards sustainable development.

• Practical experience supplements leading theory – the lecturers and visiting speakers all have practical experience of advising government, business and communities on aspects of sustainable development as well as being leaders in their academic fields. Coupled with the leading role the University plays in implementing sustainable development initiatives in its own estate, you will get the benefit of access to current practice as well as leading theory.

• Fieldtrips bring the subject alive – exploring practical applications of sustainable development brings you out of the classroom and into real-world contexts.

Contact

T: +44 (0)1334 463904
E: sasi@st-andrews.ac.uk
www.st-andrews.ac.uk/sasi
**Research community**

St Andrews is Scotland’s first university and the third oldest in the English speaking world, founded in 1413. As well as celebrating its long history, the University of St Andrews embraces its responsibilities for the future, by placing sustainable development at the heart of its operations along four integrated fronts: governance, teaching, research and sustainable estates management. The idea is to integrate sustainability into day-to-day thinking and decision-making processes of the University. New buildings and major refurbishments of existing buildings are being designed to meet strict environmental standards. The £1.7m SALIX energy fund is helping us to achieve this. The dedicated Estates Environment Team of professionals works closely with Schools and Units to raise awareness and understanding of operational sustainability issues.

The University is working with a range of key stakeholders to promote Sustainable Development across the Higher Education sector. As an active member of the Environmental Association for University and Colleges (EAUC) the University shares learning across the Higher Education and Further Education sector.

Professor Colin Hunter heads up a dedicated team of sustainable development staff. He was recently appointed as the dedicated Chair in Sustainable Development. His research interests are focused on environmental management, particularly as understood and applied in the rural context. He leads the Environment & Society Research Group (see below). Professor Jan Bebbington, Director of the St Andrews Sustainability Institute (SASI) featured in the top ten of the first “Scottish Green List”. Drawn from nominations by the public and developed by the Scottish Sustainable Development Forum, the list recognises the environmental efforts of people throughout the country. Her work using accountancy tools to track environmental problems is respected across the world and her research has aided the University in becoming a leading centre on sustainability.

**Why does sustainable development matter?**

Humanity faces enormous environmental and developmental challenges in the twenty-first century. The United Nations has identified five global issues of particular concern: the provision of clean water and adequate sanitation, energy generation and supply, human health, food production and distribution, and the continuing threat to biodiversity.

Sustainable development is now widely regarded as the most promising framework within which these challenges can be addressed, moving humanity towards the creation of a more just and environmentally sustainable ‘global village’.

There is no single description of what sustainable development means, but one commonly used definition can be found in the 1987 Brundtland Report: “Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

We are living in a time of tremendous opportunity, as people are working together across the globe to address the serious challenges facing humankind. We must learn to live within environmental limits and embrace sustainability as the key concept that will allow us to develop in the twenty-first century and beyond.

Our postgraduate programmes in Sustainable Development, co-ordinated by the School of Geography & Geosciences, will enable you to develop the knowledge and understanding you need, not only to understand all these issues from multiple perspectives but also to utilise the knowledge you gain to tackle them and realise the opportunities they create.
Transition University of St Andrews

Transition University of St Andrews was launched in 2009 and is part of the UK-based Transition initiative, which has been expanding worldwide over the last five years. Transition operates within community groups on a grassroots level, founded and operated by the communities themselves, in response to the threats of climate change and peak oil. Through working on practical projects with different community groups, the initiative helps communities minimise their impact on the planet, become more self-sustaining, and strengthens community ties. It also benefits individuals by developing their skills and encouraging re-consideration of the aspects of life which truly promote happiness and wellbeing. A number of MSc students in Sustainable Development have participated in the Transition’s activities, which complement a number of themes pursued on the MSc SD programme.

www.st-andrews.ac.uk/environment/transitionuniversity

Supervision and support

The St Andrews Sustainability Institute acts as a co-ordination point and conduit for interdisciplinary research at St Andrews and as such also facilitates PhD study in sustainable development issues. Students wishing to pursue a PhD in Sustainable Development are generally advised to take the one-year research degree (MRes in SD) prior to embarking upon their doctoral programme. If you are interested in pursuing a PhD you will require to be supervised by a specific School (e.g. Geography & Geosciences, Biology, Management). Supervision of SD research topics may also involve staff from other disciplines. Please contact us on sasi@st-andrews.ac.uk to discuss your area of research interest, and we will guide you as to the most appropriate way forward.

BREAKING NEWS
Going Nuclear? Today’s Politics, tomorrow’s Legacy

The UK is committed to expanding nuclear power but to what extent is this choice sustainable? The Fukushima disaster brought the risk of nuclear energy to the fore. The government of Japan declared a nuclear emergency in March 2011. The world watched a chaos ensue on their television screens. Radiation zones seemed to increase in size on a weekly basis. In its aftermath, supporters of nuclear energy argue such a disaster is highly unlikely in the UK. After all, a similar post-earthquake tsunami off the North East coast of England appears unthinkable.

If we are serious about tackling climate change, domestic secure nuclear power must be included in the low carbon British energy mix. Anti-nuclear campaigners maintain, however, that the event highlights how unsafe nuclear energy is. It may not be a tsunami next time.

The relatively brief history of nuclear energy seems littered with disasters from the Windscale incident in 1957 to the 1986 infamous Chernobyl disaster. And then, as we were reminded in 2013 Cumbria, there is the issue of waste. In any case, the subsidies needed for an effective nuclear policy are too large in this increasingly austere world. Indeed, a cost-benefit analysis of nuclear power is now etched on the public. So how do, or even should, our politicians react?

Read more from Darren McCauley in Britain in 2013, magazine of the Economic and Social Research Council, www.esrc.ac.uk/publications/britain-in

Research Institute

- St Andrews Sustainability Institute (SASI)

For full details see pages 28 and 29.
The Environment & Society Research Group (ESRG)
(www.st-andrews.ac.uk/gsd/research/esrg)

This group is the focus of research in sustainable development within the School. Research interests amongst core members of the ESRG team include:

- Adaptation, vulnerability and resilience to environmental change.
- Biodiversity conflicts and conservation.
- Comparative environmental politics.
- Conceptual links between craft and SD, and craft as a pathway to SD.
- Culture influences on SD and indigenous cosmologies of sustainability.
- Disease risk perception and management in rural communities.
- Education for sustainability.
- Energy justice.
- Governance and policy-making for sustainability.
- Housing and environmental sustainability.
- ICT and the social sustainability of rural communities.
- Marine spatial planning and management.
- Personal well-being and interactions with nature.
- Sustainable/pro-environment behaviours (individual, meso- and macro-scales).
- Sustainable tourism theory and practice.

Professor C Hunter (ch69@st-andrews.ac.uk): Sustainability of rural tourism; Social sustainability of rural communities; Evaluating societal impact of research.
Dr D McCauley (dam7@st-andrews.ac.uk): Energy justice, energy policy; Environmental and energy social movements; The comparative politics of energy.
Dr G Edwards (gase@st-andrews.ac.uk): Climate justice, social justice; Water policy; Justice and governance.
Dr L Reid (lar9@st-andrews.ac.uk): Environmentally sustainable behaviours; Theories of change and learning; Well-being.
Dr E Ferraro (ef21@st-andrews.ac.uk): Indigenous people; Culture and sustainability; Belief systems.
Dr R White (rmw11@st-andrews.ac.uk): Sustainable Development; Conservation and natural resource management; Interdisciplinary teaching and learning.

Your question should not be “What can I do with a degree in Sustainable Development?” but instead “Can you imagine a future where it could not be useful?” Sustainability impacts upon almost all aspects of life, so your future career could take you in one of many different directions. For example, you could:

- Work in industry addressing sustainability aspects of business management, engineering, planning, transport, project management, construction, waste, energy or environmental management.
- Make yourself heard as a sustainability researcher or policy advisor in local, regional or national government, NGOs and campaigning groups.
- Act as an advisor to supra-national bodies such as the United Nations, World Bank, European Union, and the OCED.
- Become a sustainability advisor and assessor working directly in private sector organisations, industry or as a consultant (in both mainstream and specialist businesses).
- Help others directly through development or aid work.
- Spread the word by outreach and education in sustainable living via public or third sector organisations (e.g. Councils or NGOs).
St Andrews

Buildings of interest to postgraduates

Orientate Yourself
A prominent landmark, the Cathedral, is at the bottom of the aerial photo overleaf on page 132.

Distances:
From Fife Park (1) to the Scottish Oceans Institute (46), 40 minutes walking pace, 15 minutes cycling. From Admissions (18) to St Mary’s College (38), 8 minutes walking pace, 2 minutes cycling.

Updated map available at:
www.st-andrews.ac.uk/media/university/maps/wwwmap.pdf

Alphabetical Index
Admissions .......................... 18 (J1)
Advice & Support Centre .......................... (ASC) 23 (J2)
Albany Park ...................................... 47 (N6/06)
Ancient History .................................... 25 (J1/2)
Angus House ...................................... 17 (I3)
Arabic ............................................. 19 (J2)
Archi Philosophical Research Centre .......... 36 (J2)
Art History ...................................... 23 (J2)
Arts Building ..................................... 19 (J2)
Biology ........................................ 11,40,41,46 (F2/K4,K5,06)
Biomedical Sciences ............................. Research Complex 6 (E3/F3)
Buchanan Building ............................. (Modern Languages) 35 (K2/3)
Bute Building .................................... 40 (K4)
CAPOD .......................................... 29 (J2)
Careers Centre .................................. 15 (I3)
Castlecliffe (Economics & Finance) .......... 31 (L1)
Castle House (English) ......................... 33 (K2)
Chaplaincy ..................................... 16 (I3)
Chemistry ....................................... 5 (E3)
Classics/Classical Studies ....................... 25 (J1/2)
Computer Science ............................ (Jack Cole Building) 10 (F3)
Computer Science ............................ (John Honey Building) 7 (F3)
David Russell Apartments ............... 2 (B5)
Deans Court .................................... 42 (L3)
Divinity ......................................... 38, 45 (J3/K3, L3)
Economics & Finance ........................... 31 (L1)
Eden Court ....................................... 13 (I1)
Edgecliffe (Philosophy) .......................... 26 (K1)
English (Kennedy Hall) ....................... 32 (L2)
English (Castle House / Poetry House) .... 33 (L2)
English Language Teaching ................. 4 (F3/4)
Fife Park ........................................ 1 (A4/5)
Film Studies .................................... 22 (J2)
French .......................................... 35 (K2/3)
Gannochy House ............................... 34 (K2/L2)
Gannochy House ............................... (The Gateway) 21 (J2)
Garrick Theatre .................................. 21 (J2)
Geography ...................................... 32 (K2)
Geosciences .................................... 28 (K2)
German .......................................... 35 (K2/3)
Gooch ............................................ 28 (K2)
Gooch ............................................ (The Roundel) 25 (J1/2)
Gregory ......................................... 27 (K2)
Gregory ......................................... 27 (K2)
Harold Mitchell Building ........................ (Biology) 41 (K5)
Hebrew .......................................... 38 (J3/K3)
International Relations .......................... 19 (J2)
Irving Building ............................... (Geography & Geosciences) 28 (K2)
Italian ........................................... 35 (K2/3)
Jack Cole Building ............................ (Computer Science) 10 (F3)
Jeeves Labs ..................................... (Psychology) 39 (K4)
John Honey Building ........................... (Computer Science) 7 (F3)
Kennedy Hall (English) ........................ 32 (L2)
Latin ............................................. 14 (I3)
Library ......................................... 19 (J2)
Management .................................... 12 (F2)
Mathematics & Statistics ........................ (Mathematical Institute) 8 (F3)
Mediaeval History ............................. 37 (K3)
Medical & Biological Sciences ........... 11 (F2)
Middle Eastern Studies ....................... 19 (J2)
Modern History ................................ 20 (J1)
Modern Languages ............................ 35 (K2/3)
Observatory .................................... 3 (D4/5)
Philosophy ..................................... 26, 36 (K1,J2)
Physics .......................................... 8 (F3)
Psychology & Neuroscience ................. 39 (K4)
Purdie Building ................................ 5 (E3)
Science ......................................... 26, 36 (K1,J2)
Social Anthropology ............................ Greek, Latin (Swallowgate) 27 (K2)
Student Accommodation Services ....... 24 (J2)
Sustainable Development ..................... 28 (K2)
Swallowgate (Classics) ....................... 25 (J1/2)
Numerical Index
1  Fife Park
2  David Russell Apartments
3  Observatory
4  English Language Teaching
5  Chemistry (Purdie Building)
6  Biomedical Sciences Research Complex
7  Computer Science
8  Mathematics & Statistics (Mathematical Institute)
9  Physics & Astronomy
10 Computer Science (Jack Cole Building)
11 Medical & Biological Sciences
12 Management (The Gateway)
13 Eden Court
14 Students’ Association
15 Careers Centre
16 Chaplaincy
17 Angus House, Stanley Smith House
18 Admissions, Part-time Degrees (St Katharine’s West)
19 Arabic, International Relations, Middle Eastern Studies (Arts Building)
20 Modern History, Scottish History (St Katharine’s Lodge)
21 Library (University)
22 Film Studies
23 Advice & Support Centre (ASC), Art History
24 Student Accommodation Services
25 Ancient History, Classics / Classical Studies, Greek, Latin (Swallowgate)
26 Philosophy (Logic & Metaphysics, Moral Philosophy)
27 Russian, Social Anthropology, Spanish
28 Geography & Geosciences, Sustainable Development (Irvine Building)
29 CAPOD
30 Social Anthropology
31 Economics & Finance (Castlecliffe)
32 English (Kennedy Hall)
33 English (Castle House / Poetry House)
34 Gannochy House
35 French, German, Italian, Modern Languages (Buchanan Building)
36 Archi Philosophical Research Centre, Philosophy (Logic & Metaphysics, Moral Philosophy)
37 Mediaeval History
38 Divinity, Hebrew (St Mary’s College)
39 Psychology & Neuroscience
40 Biology (Bute Building)
41 Biology (Harold Mitchell Building)
42 Deans Court
43 St Gregory’s
44 Gregory Place
45 Divinity (The Roundel)
46 Biology, Scottish Oceans Institute (SOI)
47 Albany Park
48 South Street Flats, No.173

130 / Map

Return to Contents