

# Curriculum Vitae of Janos Perczel

Born: 10 March 1989, Budapest

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## Education

**Trinity College, University of Cambridge**, 2011-2012

MA.St in Applied Mathematics and Theoretical Physics

**University of St Andrews**, 2008-2011

BSc Physics with Philosophy - *First Class Honours*

**Varosmajori Grammar School**, Budapest, Hungary, 2001-2008

Hungarian Matura Leaving Certificate - *Distinction*

## Publications

### Research papers:

- J. Perczel, T. Tyc and U. Leonhardt, *Invisibility Cloaking without superluminal propagation*, **New Journal of Physics**, 13 (2011) 083007  
<http://iopscience.iop.org/1367-2630/13/8/083007>
- J. Perczel, C. Garcia-Meca and U. Leonhardt, *Partial Transmutation of Singularities in Optical Instruments*, **Journal of Optics**, 13 (2011) 075103  
<http://iopscience.iop.org/2040-8986/13/7/075103>

### Conference proceedings:

- J. Perczel and U. Leonhardt, *From Fermat's Principle to Invisibility* in Proceedings of the 2nd European Future Technologies Conference 2011, **Procedia Computer Science**, 7 (2011) 216–220

## Conferences

European Future Technologies Conference and Exhibition May 2011;

Talk: *Invisibility Cloaking*; Poster: *From Fermat's Principle to Invisibility*

## Awards and honours

University years:

- 2011 – Principal's Medal
- 2011 – Neil Arnott Prize
- 2011 – Medal in Physics – 4<sup>th</sup> year
- 2010 – ‘Best Poster Prize’
- 2010 – William David Brodie Prize
- 2010 – Medal in Physics – 3<sup>rd</sup> year
- 2010 – EPSRC Research Studentship
- 2010 – Departmental Scholarship from the Lorentz Institute for Theoretical Physics, University of Leiden, the Netherlands

- 2010 – Research Internship Award in fluid dynamics at the Florida Atlantic University - declined
- 2008/2009, 2009/2010 and 2010/2011 – Dean's List, University of St Andrews
- 2008 – Subject-based Entrance Scholarship from the University of St Andrews

High School years:

- 2008 – Merit-based Scholarship from the Hungarian Ministry of Education
- 2008 – "Varosmajor Medal"
- 2008 – 13<sup>th</sup> place and Honourable Mention at the XVII. International Philosophy Olympiad, Romania.
- 2008 – 2<sup>nd</sup> place in the Hungarian National Contest in Philosophy  
18<sup>th</sup> place in the Hungarian National Contest in Latin

### **Research internships**

- August - September, 2010 **EPSRC Research Studentship**, University of St Andrews  
Supervisor: Professor Ulf Leonhard  
Project: Refractive Index Profiles for Invisibility
- June - July, 2010 **Departmental Scholarship**, Lorentz Institute for Theoretical Physics  
Supervisor: Dr Mark G. Jackson  
Project: Signatures of the topology of the Universe in the CMB Radiation

### **Media coverage of my work (the New Journal of Physics paper):**

- Science Daily: <http://www.sciencedaily.com/releases/2011/08/110808202502.htm>
- Le Monde (in French): [http://www.lemonde.fr/planete/article/2011/08/12/une-sphere-d-invisibilite-pour-imiter-harry-potter\\_1558802\\_3244.html](http://www.lemonde.fr/planete/article/2011/08/12/une-sphere-d-invisibilite-pour-imiter-harry-potter_1558802_3244.html)
- Cosmos Science Magazine: <http://www.cosmosmagazine.com/news/4625/invisibility-cloak-problem-solved-undergrad>

**Other articles:** BBC Knowledge, National Geographic, Popular Mechanics, International Business Times, Sky news, The Courier, Daily Mail, Belfast Telegraph, The Independent, Yahoo, Homeland Security News Wire, Top News, Euro Photonics Magazine, ZDNet, Inovação Tecnológica (Portugese), D News (in German) and several others.

**Television:** Hungarian National Television – *Delta Science Show* (01/14/2012 – studio guest)  
STV – Scottish TV (08/09/2011 – interview with Ulf Leonhardt)