

Justin M. Ales

School of Psychology & Neuroscience
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Positions

<i>University of St Andrews</i> Lecturer (Equivalent to U.S. Assistant Professor)	2013-present
<i>Stanford University</i> Research Associate	2010-2013
<i>The Smith-Kettlewell Eye Research Institute</i> Rachel C. Atkinson Postdoctoral Fellow	2007-2010

Education

<i>University of California, Berkeley</i> Ph.D., Vision Science (Interdisciplinary Graduate Group)	2007
<i>University of Southern California</i> B.S. Cum Laude, Biomedical/Electrical Engineering	2002

Grants

£75,356, 2015-2018, Wellcome Institutional Strategic Support Fund, internal,
“Determining the hierarchy of human motion perception”

Fellowships and Awards

Rachel C. Atkinson Fellowship 2008-2009
NEI NRSA T32-EY014536, Postdoctoral, 2007-2008
Outstanding Graduate Student Instructor Award, 2003
NEI NRSA T32-EY07043, Predoctoral, 2002-2005

Teaching Experience

University of St Andrews

2nd year Sensation & Perception, Semesters: Fall 2013, 2014, 2015

3rd year Research Methods, Semesters: Fall 2014

Postgraduate Quantitative Methods, Semesters: Fall 2014, 2015

Supervised 3 Master's Theses, 6 senior research projects.

University of California, Berkeley

Graduate Student Instructor

Visual Perception and Sensitivity, Semesters Fall 2002, Fall 2003

Received Outstanding Graduate Student Instructor Award, 2003

Research Papers

Norcia AM, Appelbaum LG, **Ales JM**, Cottureau BR, Rossion B (2015) The Steady-State Visual Evoked Potential in Vision Research: a Review. *Journal of Vision (Impact Factor 2.4)* 15(6):4

Liu-Shuang J, **Ales JM**, Rossion B, Norcia AM (2015) Separable effects of inversion and contrast reversal on face detection thresholds and response functions: a sweep VEP study. *Journal of Vision (Impact Factor 2.4)* 15(2):11

Liu-Shuang J, **Ales JM**, Rossion B, Norcia AM (2015) The effect of contrast polarity reversal on face detection: Evidence of perceptual asymmetry from sweep VEP. *Vision Research (Impact Factor: 2.4)* 108:8-19

Cottureau BR, **Ales JM**, Norcia AM (2014) How to use fMRI functional localizers to improve EEG/MEG source estimation. *Journal of Neuroscience Methods (Impact Factor: 2.0)* 250:64-73

Cottureau BR, **Ales JM**, Norcia AM (2014) The evolution of a disparity decision in human visual cortex. *NeuroImage (Impact Factor 6.4)* 92:193-206

Clark DA*, Fitzgerald JE*, **Ales JM***, Gohl DM, Silies MA, Norcia AM (2014) Flies and humans share a motion estimation strategy that exploits natural scene statistics. *Nature neuroscience (Impact Factor: 16.1)* 17 (2), 296-303

*Authors contributed equally

Ales JM, Yates JL, Norcia AM (2013) On determining the intracranial sources of Visual Evoked Potentials from scalp topography: A reply to Kelly et al. (2012). *NeuroImage (Impact Factor: 6.4)*.

Ales JM, Appelbaum LG, Cottureau BR, Norcia AM (2013) The time course of shape discrimination in the human brain. *NeuroImage (Impact Factor: 6.4)* 67:77-88.
doi:10.1016/j.neuroimage.2012.10.044.

Ales, JM*, Farzin F*, Rossion B, Norcia AM (2012) An objective method for measuring face detection thresholds using the sweep steady-state visual evoked response. *Journal of Vision (Impact Factor: 3.4)* 12(10):18, 1–18.

*Authors contributed equally

Palomares MC, **Ales JM**, Wade AR, Cottureau BR, Norcia AM (2012) The effect of attention on local and global processing of form and motion: a SSVEP source-imaging study. *Journal of Vision (Impact Factor: 3.4)* 12(10):15, 1–14.

Appelbaum LG, **Ales JM**, Norcia AM (2012) The Time Course of Segmentation and Cue-Selectivity in the Human Visual Cortex. *PLOS ONE (Impact Factor: 3.2)* 7 (3), e34205.

Cottureau BR, McKee SP, **Ales JM**, Norcia AM (2012) Disparity-specific spatial interactions: Evidence from EEG source imaging. *Journal of Neuroscience (Impact Factor: 6.3)* 32:826–840.

Cottureau BR, **Ales JM**, Norcia AM (2011) Increasing the accuracy of EEG/MEG cortical reconstructions using functional area source correlation constraints. *Human Brain Mapping (Impact Factor: 5.97)* DOI: 10.1002/hbm.21394.

Tsai JJ, Norcia AM, **Ales JM**, Wade AR (2011) Contrast gain control abnormalities in idiopathic generalized epilepsy. *Annals of Neurology (Impact Factor: 10.0)* 70:574–582.

Fesi JD, Yannes MP, Brinckman DD, Norcia AM, **Ales JM**, Gilmore RO (2011) Distinct cortical responses to 2D figures defined by motion contrast. *Vision Research (Impact Factor: 2.4)*, 51:2110-2120.

Cottureau BR, McKee SP, **Ales JM**, Norcia AM (2011) Disparity-tuned population responses from human visual cortex. *Journal of Neuroscience (Impact Factor: 6.3)* 31:954–965.

Appelbaum LG, **Ales JM**, Cottureau, BR, Norcia AM (2010) Configural specificity of lateral occipital cortex. *Neuropsychologia (Impact Factor: 4.3)* 48:3323-3328.

Ales JM, Yates JL, Norcia AM (2010) V1 is not uniquely identified by polarity reversals of responses to upper and lower field stimuli. *NeuroImage (Impact Factor: 6.4)* 52:1401-1409.

Lauritzen, TZ, **Ales JM**, Wade AR (2010) The effects of visuospatial attention measured across visual cortex using source-imaged, steady-state EEG. *Journal of Vision (Impact Factor: 3.4)* 10(14):39, 1–17.

Ales JM, Carney T, Klein SA (2010) The folding fingerprint of visual cortex reveals the timing of human V1 and V2. *NeuroImage (Impact Factor: 6.4)* 49:2494-502.

Ales JM, Norcia AM (2009) Assessing direction-specific adaptation using the steady-state visual evoked potential: results from EEG source imaging. *Journal of Vision (Impact Factor: 3.4)* 9(7):1-13.

Dandekar S, **Ales JM**, Carney T, Klein SA (2007) Methods for quantifying intra- and inter-subject variability of evoked potential data applied to the multifocal visual evoked potential. *Journal of Neuroscience Methods (Impact Factor: 2.0)*, 165:270-286.

Conference Proceedings

Carney T, **Ales JM**, Klein SA (2008) Combining MRI and VEP imaging to isolate the temporal response of visual cortical areas. *Proceedings of the SPIE*. Volume 6806.

Carney T, **Ales JM**, Klein SA (2006) Advances in multifocal methods for imaging human brain activity, *Proceedings of the SPIE*, 6057:413-424.

Ad Hoc Reviewer

IEEE Signal Processing Letters, Cerebral Cortex, NeuroImage, Journal of Vision, Vision Research, Neuroscience, Frontiers in Perception Science, Brain Research, Cognitive and Behavioral Neuroscience, European Journal of Neuroscience

Invited Talks

Rank-Prize Symposium (forthcoming 2016)
Bangor University
University of California, San Diego
University of California, Irvine
University of California, Berkeley
The Smith-Kettlewell Eye Research Institute