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## Education

- 2006 – 2012 DPhil ‘Plasticity and integration of auditory spatial cues’, Lincoln College, Oxford University, UK  
Supervisor: Prof Andrew King, director of the Oxford Auditory Neuroscience Group.
- 2007 – 2009 Completed courses in mathematics (‘Calculus of Variations’ and ‘Nonlinear Ordinary Differential Equations’) at the MSc level, Open University, UK
- 2004 – 2005 MSc in Neuroscience (Distinction), St Edmund Hall, University of Oxford, UK  
Graduated amongst *top three students* in class.
- 2000 – 2004 BA (Hons) in Psychology with Philosophy (Distinction), Trinity College, University of Dublin, Ireland  
Graduated with *top collective grade* at both class and faculty level.
- 1998 – 2000 Irish Leaving Certificate (equivalent of British A-Levels), Colaiste Raithin, Ireland  
Achieved *second-highest collective grade nationally* (top possible grade in 8 subjects - Mathematics, Applied mathematics, Physics, Chemistry, Irish, German, Music, English).

## Academic Awards and Distinctions

- Travel award recipient, and runner-up for best presentation, at the 12<sup>th</sup> *Advances and Perspectives in Auditory Neurophysiology (APAN) Meeting* (Washington DC, 2014; Prize value: \$500).
- Selected to attend the Summer Workshop on the Dynamic Brain (organized by the Allen Institute and Univ. Washington), and fully funded by the Allen Institute and Guarantors of Brain to do so (Seattle, 2014).
- Awarded one of six places in the Graduate Students’ Prize Symposium at the 4<sup>th</sup> *Conference on Auditory Cortex* (Lausanne, 2012; Prize value: approx £1,000).
- Awarded funding by various charities and trusts to present work at conferences in Anaheim (Assoc. Res. Otolaryngology, 2010), Phoenix (Assoc. Res. Otolaryngology, 2008), Melbourne (IBRO 2007), and Washington DC (Society for Neuroscience, 2005).
- Awarded full scholarship by the Newton-Abraham Trust, to read for a DPhil in Physiology at the University of Oxford (2006-2010), with additional funding provided via a Wellcome Trust programme grant awarded to Prof A King (2010-2012).
- Awarded scholarships by the Irish Government, the McDonnell-Pew foundation and the Prendergast Bequest to read for an MSc in Neuroscience at the University of Oxford (2004).
- Awarded a Gold Medal by Trinity College, Dublin for graduating with exceptionally high grades. Gold medals are awarded at the discretion of the College to 0.25% of students graduating in any given year (2004).
- Awarded the Graduates’ Memorial Prize in Psychology for achieving top grades among all Junior Sophister (JS; 3<sup>rd</sup> year) and Senior Sophister (SS; 4<sup>th</sup> year) psychology students (2004).
- Awarded one of two European fellowships to attend a workshop on vision and language held in the Institute for Research in Cognitive Science, University of Pennsylvania, USA (2003).
- Awarded the Graduates’ Memorial Prize in Psychology for achieving top grades among all JS and SS psychology students (2003).
- Awarded the John Isaac Beare Prize in Philosophy for achieving top grades in JS continuous assessment (2003).
- Awarded the John Henry Bernard Prize in Philosophy for achieving top grades in JS examinations (2003).
- Awarded one of five European fellowships to attend a workshop on visual processing held in the Centre for Visual Science, University of Rochester, NY (2002).
- Elected a scholar of Trinity College, University of Dublin on the basis of performance in the Foundation Scholarship Examinations. 1% of students are scholars of the college, and the scholarship provides for accommodation, food, stipend, and tuition for a period of 5 years (2002).
- Awarded the John Henry Bernard Prize in Philosophy for achieving top grades in Junior Freshman (1<sup>st</sup> year) examinations (2001).
- Awarded scholarship by the Irish Department of Education on the basis of performance in the Leaving Certificate. Also awarded additional scholarship by Trinity College, Dublin on the basis of these results. Used to pursue degree in Psychology with Philosophy (2000).

## Journal publications

- **Keating, P.**, Dahmen, J.C. & King, A.J. (2015). Complementary adaptive processes contribute to the developmental plasticity of spatial hearing. *Nat Neurosci* doi:10.1038/nn.3914
- **Keating, P.**, Nodal, F.R. & King, A.J. (2014). Behavioural sensitivity to binaural spatial cues in ferrets: evidence for plasticity in the duplex theory of sound localization. *Eur J Neurosci* 39: 197-206
- **Keating, P.** & King, A.J. (2013). Developmental plasticity of spatial hearing following asymmetric hearing loss: context-dependent cue integration and its clinical implications. *Front Syst Neurosci* 7: 123
- **Keating, P.**, Dahmen, J.C. & King, A.J. (2013). Context-specific reweighting of auditory spatial cues following altered experience during development. *Curr Biol* 23: 1291-9
- **Keating, P.**, Nodal, F.R., Gananandan, K., Schulz, A.L. & King, A.J. (2013). Behavioral sensitivity to broadband binaural localization cues in the ferret. *J Assoc Res Otolaryngol* 14: 561-72
- King, A.J., Dahmen, J.C., **Keating, P.**, Leach, N.D., Nodal, F.R. & Bajo, V.M. (2011). Neural circuits underlying adaptation and learning in the perception of auditory space. *Neurosci Biobehav Rev* 35: 2129-39
- Dahmen, J.C., **Keating, P.**, Nodal, F.R., Schulz, A.L. & King, A.J. (2010). Adaptation to stimulus statistics in the perception and neural representation of auditory space. *Neuron* 66: 937-48
- Nodal, F.R., **Keating, P.** & King, A.J. (2010). Chronic detachable headphones for acoustic stimulation in freely moving animals. *J Neurosci Methods* 189: 44-50

## Conference Abstracts (\*oral presentations)

- **\*Keating, P.** (2014). Behavioral measures of spatial hearing in the ferret. *1<sup>st</sup> Ferret Brain Meeting*, Maryland, USA
- **\*Keating, P.**, Dahmen, J.C. & King, A.J. (2014). Complementary adaptive processes contribute to the developmental plasticity of spatial hearing. *44<sup>th</sup> annual meeting of the Society for Neuroscience*, Washington DC, USA
- **\*Keating, P.**, Dahmen, J.C. & King, A.J. (2014). Complementary adaptive processes contribute to the developmental plasticity of spatial hearing. *12<sup>th</sup> Advances and Perspectives in Auditory Neurophysiology (APAN) Meeting*, Washington DC, USA
- Barnstedt, O., **Keating P.**, King A.J. & Dahmen, J. (2014). Fine-scale tonotopic arrangement in the dorsal cortex of the mouse inferior colliculus studied with two-photon imaging. *37<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology*, San Diego, USA
- Vazquez-Lopez, S., **Keating P.**, King A.J. & Dahmen, J. (2014). Functional characterization of thalamic input to the mouse auditory cortex. *37<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology*, San Diego, USA
- **\*Keating P.**, Dahmen J.C. & King A.J. (2012). Adaptive reweighting of spectral cues to sound location following developmental hearing loss in one ear. *4<sup>th</sup> Conference on Auditory Cortex*, Lausanne, Switzerland.
- Dahmen J.C., **Keating P.** & King A.J. (2010). Time course of adaptation to stimulus statistics in the perception and neural representation of auditory space. *40<sup>th</sup> annual meeting of the Society for Neuroscience*, San Diego, USA
- **Keating, P.**, Nodal, F., Schulz, A. & King, A.J. (2010). Closed-field measures of behavioural sensitivity to ITDs and ILDs in the ferret. *33<sup>rd</sup> MidWinter Meeting of the Association for Research in Otolaryngology*, Los Angeles, USA
- Allen, J.L., Schulz, J.C., **Keating, P.E.**, King, A.J. & Hartley, D.E. (2008). Electrophysiological and behavioural assessments of binaural unmasking in the ferret. *British Society of Audiology Short Papers Meeting*. York, UK.
- **Keating, P.**, Schnupp, J.W., Brighton, A.K. & King, A.J. (2008). Misalignment of ITDs and ILDs induces recalibration of ITDs by more informative ILDs. *31<sup>st</sup> MidWinter Meeting of the Association for Research in Otolaryngology*. Phoenix, US
- Upton, A.L., **Keating, P.E.** & Thompson, I.D. (2005). Spatial selectivity of mouse primary visual cortical neurons. Abstracts of the 18<sup>th</sup> National Meeting of the British Neuroscience Association, 34.04
- **\*Keating, P.E.** & Bair, W. (2005). Inter-neuronal connectivity and correlation in a model of V1 simple cells. Program No. 820.8. 2005 Washington DC: Society for Neuroscience

## Invited Research Talks

- Department of Neurobiology, Harvard Medical School, Boston, USA, 2013 (Chris Harvey)
- Eaton-Peabody Laboratory, Massachusetts Eye and Ear Infirmary, Boston, USA, 2013 (Dan Polley)
- Institute for Molecular Pathology, Vienna, Austria, 2013 (Simon Rumpel)

## **Teaching and Supervision**

- Appointed as non-stipendiary lecturer in neurophysiology at Lady Margaret Hall, University of Oxford. Involves tuition of biomedical science and psychology students in tutorial groups (Oxford, 2014-present).
- Co-supervisor of DPhil student (2014-present)
- Supervision of 6 research projects by final-year medical or experimental psychology students (2006-present).
- Practical classes in visual and auditory neuroscience for medical students. Organised by Prof A. Parker and Prof A. King, respectively (Oxford, 2005-present).
- Appointed as non-stipendiary lecturer in medicine (neurophysiology) at St Edmund Hall, University of Oxford. Involved tuition of medical, psychology, and visiting students in tutorial groups (Oxford, 2005-2010).

## **Other**

- Reviewer for *Frontiers in Systems Neuroscience*; contributed to the review process for *Journal of Neuroscience*, *Current Biology*, *Nature Communications*, and *PNAS*.