

Mark Andrews

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Education

- 2003 Ph.D degree. Psychology and Cognitive Science, Cornell University. Thesis entitled *Language Learning and Nonlinear Dynamical Systems*
- 1998–1999 Visiting Researcher. Center for the Neural Basis of Cognition, Carnegie-Mellon University
- 1998 MSc degree. Psychology and Cognitive Science, Cornell University
- 1995 BA degree. Psychology, National University of Ireland

Award & Honours

- 2009 Awarded the *Computational Modelling of Language Prize* by the Cognitive Science Society
- 2000 Cognitive Science Fellowship. Graduate school fellowship at Cornell University
- 1995 Sage Fellowship. Four year Graduate school fellowship at Cornell University
- 1994 Student psychologist of the year (Runner Up). Awarded by the Irish Psychology Society for a project entitled *Haptic and Visual contributions to the Size-Weight Illusion*

Employment

- 2006–2009 Research fellow. Department of Cognitive, Perceptual and Brain Sciences, Division of Psychology and Language Science, University College London
- 2005–2006, 2009 (1–6) Interim Lecturer. Department of Psychology, University College London
- 2004–2005 Interim Lecturer. School of Information Technology, International University in Germany
- 2002–2004 Research fellow. Gatsby Computational Neuroscience Unit, University College London

Teaching Experience

- 2009 Introduction to Psycholinguistics. Division of Psychology and Language Science. University College London
- 2006–2009 Undergraduate Writing Seminar. Division of Psychology and Language Science, University College London
- 2004 Introduction to Neural Networks. School of Information Technology, International University in Germany
- 2001–2002 The Prospects for Artificial Intelligence. Psychology Department, Cornell University
- 2000, 2001 Introduction to Cognitive Science. Psychology Department, Cornell University
- 1996–1998, 2000–2001 Teaching assistant for *Introduction to Psycholinguistics*, *Introduction to Developmental Psychology*, *Introduction to Statistics*, *Introduction to Psychology*, *Applied Cognitive Science*. Psychology Department, Cornell University

Publications

- 2010 Andrews, M. & Vigliocco, G. (In Press). The Hidden Markov Topic Model: A Probabilistic Model of Semantic Representation. *Topics in Cognitive Science*.
- 2009 Andrews, M., Vigliocco, G. & Vinson, D. P. (2009). Integrating Experiential and Distributional Data to Learn Semantic Representations. *Psychological Review*, Vol. 116(3), pp. 463–498.
- Vigliocco, G., Meteyard, L., Andrews, M. & Kousta, S. (2009). Toward a Theory of Semantic Representation. *Language and Cognition*, Vol. 1(2), pp. 219–248.
- Andrews, M. & Vigliocco, G. (2009) Learning Semantic Representations with Hidden Markov Topics Models. *Proceeding of the 31st Annual Conference of the Cognitive Science Society*

Publications (continued)

- 2008 Andrews, M., Vinson, D. P., & Vigliocco, G. (2008). Inferring a Probabilistic Model of Semantic Memory from Word Association Norms. *Proceedings of the 30th Annual Conference of the Cognitive Science Society*
- 2007 Andrews, M., Vigliocco, G. & Vinson, D. (2007). Evaluating the Contribution of Intra-linguistic and Extra-linguistic Data to the Structure of Human Semantic Representations. *Proceedings of the 29th Annual Conference of the Cognitive Science Society*
- 2005 Andrews, M., Vigliocco, G. & Vinson, D. (2005). The Role of Attributional and Distributional Information in Representing Meaning. *Proceedings of the 27th Annual Conference of the Cognitive Science Society*
- Andrews, M., Vigliocco, G. & Vinson, D. P. (2005) Integrating Attributional and Distributional Information in a Probabilistic Model of Meaning Representation. In Honkela, Kononen, Polla & Simula, editors, *Adaptive Knowledge Representation and Reasoning*, Pages 15-25
- 2004 Andrews, M. & Salzberg, C. (2004). Sexual and Asexual Paradigms in Evolution: The Implications for Genetic Algorithms? *Genetic and Evolutionary Computation Conference GECCO-2004*
- 2003 Andrews, M. (2003). Language Learning and Nonlinear Dynamical Systems. *PhD Thesis*, Cornell University
- 2001 Andrews, M. (2001). Processing and recognition of symbol sequences, *Proceedings of the 23rd Annual Conference of the Cognitive Science Society*
- 1999 Spivey, M. J., Andrews, M. & Richardson, D. C. (1999). On Computational and Behavioral Evidence Regarding Hebbian Transcortical Cell Assemblies. *Behavioral And Brain Sciences*. 22(2), p302
- 1992 Andrews, M. (1992). Predatory behavior of *carcinus maenus* on *mytilus edulis*’, *European Journal of Science and Technology*, 3963(F), 12-15

Conference Presentations

- 2008 Andrews, M., Vigliocco, G., & Vinson, D. P. (2008). Integrating Statistics from the World and Language to Learn Semantic Representations. *AMLAP: Architectures and Mechanisms of Language Processing*
- Andrews, M., Vigliocco, G., Vinson, D. P. (2008). Integrating Experiential and Distributional Data to Learn Semantic Representations. NIPS workshop entitled *Human Learning meets Machine Learning*
- Andrews, M. (2008). The Joint Contribution of Experience and Language in Shaping Meaning Representations. *XXIX International Congress of Psychology*
- 2006 Andrews, M., (2006). A Unified Account of Population-Based Stochastic Optimization Methods. NIPS workshop entitled *Advances in Reinforcement Learning*
- 2001, 2005, 2007, 2008, 2009 *Annual Conference of the Cognitive Science Society*. Corresponding papers are listed above.
- 2001 Andrews, M. (2001). Language Learning and Language Learnability. *CUNY Sentence Processing Conference*
- Andrews, M. (2001). Language Learning by State-Space Reconstruction. *Cognitive and Neural Systems Conference*
- Andrews, M. (2001). Language Learning by Vector Field estimation. *Annual Conference of the Cognitive Neuroscience Society*

Conference Presentations (continued)

- 2000 Andrews, M. (2000). Nonlinear Dynamics of Sentence Comprehension. *AMLAP: Architectures and Mechanisms of Language Processing*
- Andrews, M. (2000). Semantic Processing in Neural Systems. *Annual Conference of the Cognitive Neuroscience Society*
- 1998 Andrews, M. & Keil, F. C. (1998). Conceptual Organization and Discourse Processing. *Annual Conference of the Society for Text and Discourse*
- 1996 Andrews, M., Levin, D. & Field, D. J. (1996). Face Space: Vectors of Emotional Expression. *Annual Conference of Association for Research in Vision and Ophthalmology*