

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

Employment

- 2010– Senior Lecturer. Division of Psychology, Nottingham Trent University
- Research Associate. Division of Psychology and Language Sciences, University College London
- 2005–2009 Research fellow. Department of Cognitive, Perceptual and Brain Sciences, Division of Psychology and Language Science, University College London
- 2002–2004 Research fellow. Gatsby Computational Neuroscience Unit, University College London

Publications

- IN PRESS Andrews, M., Frank, S., Vigliocco G. (In Press). Reconciling Embodied and Distributional Accounts of Meaning in Language. *Topics in Cognitive Science*.
- Andrews, M. (In Press). Probabilistic Language Modeling with Hidden Stochastic Automata. *Proceedings of the 35th Annual Conference of the Cognitive Science Society*
- 2013 Vigliocco, G., Kousta, S., Vinson, D.P., Andrews, M., Del Campo, E. (2013). The Representation of Abstract Words: What Matters? Reply to Paivio's (2013) Comment on Kousta et al. (2011). *Journal of Experimental Psychology: General*. Vol. 142(1), pp. 288-291.
- Andrews, M., Baguley, T. (2013). Prior approval: The growth of Bayesian methods in psychology. *British Journal of Mathematical & Statistical Psychology*. Vol. 66(1), pp. 1-7.
- Vinson, D., Andrews, M., Vigliocco, G. (2013). Giving words meaning: Why better models of semantics are needed in language production research. In V. Ferreira, M. Goldrick & M. Miozzo (Eds.), *Oxford Handbook of Language Production*.
- 2012 Vigliocco, G. & Andrews, M. (2012). The Limitations of the Distributional Hypothesis: Augmenting Distributional Statistics with Experiential Data. In Pier Marco Bertinetto, Valentina Bambini, Irene Ricci (eds.) *Language and the Brain – Semantics*. Rome, Italy: Bulzoni.
- 2011 Andrews, M. (2011). A review of Doing Bayesian Data Analysis: A Tutorial Using R and BUGS by J. Kruschke. *British Journal of Mathematical & Statistical Psychology*. Vol. 64(3), pp. 538-540.
- Kousta, S., Vigliocco, G., Vinson, D. P, Andrews, M. & Del Campo, E. (2011). The Representation of Abstract Words: Why Emotion Matters. *Journal of Experimental Psychology-General*, Vol. 140(1). pp. 14-34.

Publications (continued)

- 2010 Andrews, M. & Vigliocco, G. (2010). The Hidden Markov Topic Model: A Probabilistic Model of Semantic Representation. *Topics in Cognitive Science*, Vol. 2, pp. 101-113.
- 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*
- 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

Conference Presentations

- 2012 Andrews, M., Diaz, J. (2012). The Role of Background Knowledge in Memory for Text. AMLAP: *Architectures and Mechanisms of Language Processing*.
- Andrews, M., Diaz, J.(2012). And Now for Something Completely Different: Python in Cognitive Science. A Tutorial presented at *The 34th Annual Conference of the Cognitive Science Society*
- 2010 Andrews, M., Webb, J. (2010). A Hierarchical Logistic-Wald Model for the Analysis of Lexical-Decision Data. *Mathematical Psychology Conference*

Conference Presentations (continued)

- 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, 05, 07, 08, 09, 13 *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*
- 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*

Invited Departmental Talks

- 2013 Department of Psychology, Warwick University. April 2013.
- 2012 Institute of Psychology, KU Leuven. October 2012.
- Center for Mind/Brain Sciences, University of Trento. April 2012
- 2009 Cambridge Institute of Language Research, Cambridge University. March 2009.
- 2006 School of Informatics, University of Edinburgh. March 2006

Teaching Experience

2012–2013	Advanced Statistics (BSc Level). Division of Psychology. Nottingham Trent University
2010–2012	Advanced Experimentation & Statistics (MSc Level). Division of Psychology. Nottingham Trent University
2010–2012	Introduction to Statistics (BSc Level). Division of Psychology. Nottingham Trent University
2009	Introduction to Psycholinguistics (BSc Level). Division of Psychology and Language Science. University College London
2004	Introduction to Neural Networks (BSc Level). School of Information Technology, International University in Germany
2001–2002	The Prospects for Artificial Intelligence (BSc Level). Psychology Department, Cornell University
2000, 2001	Introduction to Cognitive Science (BSc Level). Psychology Department, Cornell University

Professional Service

2012–	Associate Editor, <i>British Journal of Mathematical & Statistical Psychology</i> .
2008–	I regularly peer review for following journals: <i>Cognitive Science</i> , <i>Topics in Cognitive Science</i> , <i>Frontiers in Cognitive Science</i> , <i>British Journal of Mathematical & Statistical Psychology</i> .

Awards & Honours

2009	Awarded the <i>Computational Modelling of Language Prize</i> 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 <i>Haptic and Visual contributions to the Size-Weight Illusion</i>