Andrew Thomas Hendrickson

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RELEVANT

Assistant Professor

January 2018 - present

EMPLOYMENT

Department of Cognitive Science and Artificial Intelligence

Tilburg University, Netherlands

Assistant Professor

March 2017 - December 2017

Department of Communication and Information Sciences

Tilburg University, Netherlands

Postdoctoral researcher

November 2015 - February 2017

Computational Cognition Lab with Profs Amy Perfors and Dan Navarro

School of Psychology, University of Adelaide, Australia

Research Scientist

September 2012 - November 2015

Computational Cognition Lab with Profs Amy Perfors and Dan Navarro

School of Psychology, University of Adelaide, Australia

Course Instructor

September 2008 - December 2010

Indiana University, Bloomington, Indiana, USA

Research Methods (two sections) and Cognitive Psychology (two semesters)

Teaching Assistant

September 2007 - May 2012

Indiana University, Bloomington, Indiana, USA

Introduction to Psychology, Introduction to Statistics, and Cognitive Psychology

EDUCATION

Ph.D., Psychological and Brain Sciences & Cognitive Science

November 2015

Advisors: Prof Robert Goldstone, Prof Peter Todd Indiana University, Bloomington, Indiana, USA

B.S., Computer Science & Cognitive Psychology Carnegie Mellon University, Pittsburgh, PA, USA May 2005

ACCEPTED PAPERS

- 1. Langsford, S., Perfors, A., Kennedy, L., **Hendrickson, A.T.**, Navarro, D.J., (in press) A systematic comparison and reliability analysis of formal measures of sentence acceptability. Glossa.
- 2. Langsford, S., **Hendrickson**, **A.T.**, Navarro, D.J., Perfors, A., (2017). When do learned transformations influence similarity and categorization? Proceedings of the 39th Annual Conference of the Cognitive Science Society

- 3. **Hendrickson, A.T.**, Navarro, D.J., Perfors, A. (2016). Sensitivity to hypothesis size during information search. Decision, 3(1), 62-80.
- 4. Vong, W.K., Hendrickson, A.T., Perfors, A., Navarro, D.J. (2016). Do additional features help or harm during category learning? An exploration of the curse of dimensionality in human learners. Proceedings of the 37th Annual Conference of the Cognitive Science Society. Winner of the 2016 Marr Prize for computational modeling.
- 5. **Hendrickson, A.T.**, Navarro, D.J., Donkin, C. (2015). Quantifying the time course of similarity. In DC Noelle, R Dale, AS Warlaumont, J Yoshimi, T Matlock, CD Jennings and PP Maglio (Ed.) Proceedings of the 37th Annual Conference of the Cognitive Science Society (pp. 908-913).
- Hendrickson, A.T., Perfors, A., Navarro, D. J. (2014). Adaptive information source selection during hypothesis testing. In P Bellow, M Guarani, M McShane and B Scassellati (Ed.) Proceedings of the 36th Annual Conference of the Cognitive Science Society. (pp. 607-612).
- Langsford, S., Hendrickson, A.T., Perfors, A., Navarro, D. J. (2014). People are sensitive to hypothesis sparsity during category discrimination. In P Bellow, M Guarani, M McShane and B Scassellati (Ed.) Proceedings of the 36th Annual Conference of the Cognitive Science Society. (pp. 2531-2536).
- 8. Todd, P. M., Hills, T. T., **Hendrickson**, **A.T.** (2013). Modeling reproductive decisions with simple heuristics. Demographic Research, 29, 641-661.
- Vong, W.K., Hendrickson, A.T., Perfors, A., Navarro, D. J. (2013). The role
 of sampling assumptions in generalization with multiple categories. In M Knauff,
 M Pauen, N Sebanz and I Wachsmuth (Ed.) Proceedings of the 35th Annual
 Conference of the Cognitive Science Society (pp. 3699-3704).
- 10. Hendrickson, A.T., Carvalo, P. F, Goldstone, R. L. (2012). Going to extremes: The influence of unsupervised categories on the mental characterization of faces and asymmetries in perceptual discrimination. Proceedings of the 34th Annual Conference of the Cognitive Science Society. (pp. 1662-1667).
- 11. **Hendrickson, A.T.**, Kachergis, G., Faucey, C. M., Goldstone, R. L. (2012) Relearning labeled categories reveals structured representations. Proceedings of the 34th Annual Conference of the Cognitive Science Society. (pp. 1668-1673).
- 12. **Hendrickson**, **A.T.**, Todd, P. M., Fortenberry, J. D. (2010) Modeling decision making in mate choice within and across relationships. Proceedings of the 22nd annual meeting of the Human Behavior and Evolution Society.
- 13. **Hendrickson, A.T.**, Kachergis, G., Gureckis, T. M., Goldstone, R. L. (2010) Is categorical perception really verbally mediated perception? Proceedings of the 32nd Annual Conference of the Cognitive Science Society. (pp. 1216-1221).
- 14. Goldstone, R. L., **Hendrickson**, **A.T.** (2009) Categorical Perception. Wiley Interdisciplinary Reviews: Cognitive Science, 1, 69-78.
- 15. **Hendrickson, A.T.**, Goldstone, R. L. (2009) Perceptual Unitization in Part-Whole Judgments. Proceedings of the 31st Annual Conference of the Cognitive Science Society. (pp. 1084-1089).
- Hendrickson, A.T., Goldstone, R. L. (2007) Feature Learning Within Categorization. Proceedings of the 29th Annual Conference of the Cognitive Science Society.

REVIEW

- PAPERS UNDER 1. Hendrickson, A.T., Navarro, D.J., Donkin, C. (under review). Evidence accumulation in same-different judgments: Integrating featural similarity with structural knowledge using a linear ballistic accumulator. Cognitive Psychology.
 - 2. **Hendrickson**, A.T., Perfors, A. (under review). Cross-situational learning in a Zipfian environment. Cognition.
 - 3. Hendrickson, A.T., Perfors, A., Navarro, D.J. (under review). Categorization and generalization: the surprising discrepancy caused by additional exemplars. Cognitive Psychology.
 - 4. **Hendrickson**, A.T., Semmler, C. (under review). Similarity and set size impact the efficiency of hypothesis testing among faces. Proceedings of the 40th Annual Meeting of the Cognitive Science Society.
 - 5. Vong, W. K., Hendrickson, A.T., Perfors, A. (under review). Do additional features help or hurt category learning? The curse of dimensionality in human learners. Cognitive Psychology.
 - 6. Ransom, K., Hendrickson, A.T., Perfors, A., Navarro, D.J. (under review). Representational and sampling assumptions drive individual differences in single category generalisation. Proceedings of the 40th Annual Meeting of the Cognitive Science Society.

TEACHING

Advanced Data Processing in Python Tilburg University

Spring 2017

Introduction to Cognitive Science Tilburg University

Fall 2017

Introduction to Statistics in R Tilburg University

Fall 2017

Perception and Cognition University of Adelaide

October 2016

Workshop on implementing online experiments Presenter and primary organizer

2014 & 2015

Annual Meeting of the Australasian Society for Experimental Psychology (2015) University of Adelaide (2014)

Cognitive Psychology Indiana University

Fall 2009, Fall 2010

Research Methods for Experimental Psychology Indiana University

Spring 2008

Guest Lectures at Indiana University Introduction to Statistics; Introduction to Psychology

GRANTS

ARC Discovery Project (AUS\$290,011) Where do inductive biases come from? A Bayesian investigation 2018-2020

2018

Australian Research Council (ARC)

Creative industry - Knowledge Innovation Mapping (€18,000)

Keeping struggling students from illiteracy using design thinking

Netherlands Organisation for Scientific Research (NWO) and CLICKNL

Interdisciplinary Research Infrastructure Block Grant (\$20,000) 2016

Decision making in real life: the case of vaccinating children – uncertainty, perceived risk, and regret

University of Adelaide

Interdisciplinary Research Funding Scheme (\$19,586) 2016 Understanding human-technology interactions to aid in the use of unconstrained imagery for identification University of Adelaide

Research Infrastructure Block Grant (\$11,000)
Assessing the consistency of generalization across individuals
University of Adelaide

Student Research Grant Award (\$3,000) The Kinsey Institute, Indiana University 2010

2012

SUPERVISION

I supervised two PhD students at the University of Adelaide (Steven Langsford and Lauren Kennedy) who successfully completed their theses in 2017. I am currently co-supervising one PhD student at the University of Adelaide (Wai Keen Vong) who has submitted and is expected to complete in 2018.

I successfully supervised 4 Master's students at Tilburg University in 2017 and currently supervise 8 Master's students, 1 Research Master's student, and 2 Research Trainees at Tilburg University.

AWARDS

Research Experience Award (\$3,000, declined)

2012

National Science Foundation

Research Travel Fellowship (\$1,500)

2011

National Science Foundation & Cognitive Science Society

Pre-doctoral Training Award (\$20,000)

2010 - 2011

Indiana Clinical and Translational Research Institute, Indiana University

IGERT Fellowship

2010 - 2015

National Science Foundation & Indiana University

AD HOC REVIEWING Adaptive Behavior, Behavior Research Methods, Cognitive Science, Cortex, Decision, Frontiers in Psychology, Journal of Experimental Psychology: General, Memory and Cognition, Psychological Bulletin, Proceedings of the Cognitive Science Society

MEMBERSHIPS Cognitive Science Society, Society for Mathematical Psychology

References and teaching evaluations available upon request.