

Andrew Hendrickson

Department of Cognitive Science and Artificial Intelligence, Tilburg University
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RELEVANT EMPLOYMENT *Assistant Professor* March 2017 - present
Department of Cognitive Science and Artificial Intelligence Jan 2018 - present
Department of Communication and Information Sciences March 2017 - Dec. 2017
Tilburg University, Netherlands

Postdoctoral researcher November 2015 - February 2017
Computational Cognition Lab with Profs Amy Perfors and Danielle Navarro
School of Psychology, University of Adelaide, Australia

Research Scientist September 2012 - November 2015
Computational Cognition Lab with Profs Amy Perfors and Danielle Navarro
School of Psychology, University of Adelaide, Australia

Course Instructor September 2008 - December 2010
Indiana University, Bloomington, Indiana, USA
Research Methods and Cognitive Psychology

Teaching Assistant September 2007 - May 2012
Indiana University, Bloomington, Indiana, USA
Introduction to Psychology, Introduction to Statistics, and Cognitive Psychology

EDUCATION *Ph.D., Cognitive Science & Psychological and Brain Sciences* November 2015
Advisors: Prof Robert Goldstone, Prof Peter Todd
Indiana University, Bloomington, Indiana, USA

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

PUBLICATIONS

1. Khoe, Y. H., Perfors, A., and **Hendrickson, A.T.** (in press). Modeling individual performance in cross-situational word learning. In *Proceedings of the 41st Annual Meeting of the Cognitive Science Society*.
2. **Hendrickson, A.T.**, Perfors, A. (in press). Cross-situational learning in a Zipfian environment. *Cognition*.
3. **Hendrickson, A.T.**, Perfors, A., Navarro, D.J. (in press). Sample size, number of categories and sampling assumptions: Exploring some differences between categorization and generalization. *Cognitive Psychology*.

4. Vong, W. K., **Hendrickson, A. T.**, Navarro, D. J., and Perfors, A. (in press). Do additional features help or hurt category learning? the curse of dimensionality in human learners. *Cognitive Science*.
5. Stragier, J., Abeele, M. V., **Hendrickson, A. T.**, and Marez, L. D. (2019). Unlock, chat, lock. A Markov chain analysis to unveil how smartphone use unfolds in everyday life. In *Proceedings of the 69th Annual Meeting of the International Communication Association*.
6. **Hendrickson, A. T.**, Marez, L. D., Martens, M., Muller, G., Ponnet, K., Schweitzer, C., and Abeele, M. V. (2019). How do people use their smartphone? a data scientific approach to describe and identify user-related, system-related and context-related patterns in use. In *Proceedings of the 69th Annual Meeting of the International Communication Association*.
7. **Hendrickson, A. T.**, Wang, J., and Atzmueller, M. (2018). Identifying exceptional descriptions of people using topic modeling and subgroup discovery. In the *International Symposium on Methodologies for Intelligent Systems*.
8. Heyer, R., Semmler, C., and **Hendrickson, A. T.** (2018). Humans and algorithms for facial recognition: The effects of candidate list length and experience on performance. *Journal of Applied Research in Memory and Cognition*.
9. Ransom, K., **Hendrickson, A. T.**, Perfors, A., and Navarro, D. J. (2018). Representational and sampling assumptions drive individual differences in single category generalisation. In *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*.
10. Langsford, S., Perfors, A., Kennedy, L., **Hendrickson, A.T.**, Navarro, D.J., (2018) A systematic comparison and reliability analysis of formal measures of sentence acceptability. *Glossa: a journal of general linguistics*, 3 (1), 37.
11. Langsford, S., **Hendrickson, A.T.**, Navarro, D.J., Perfors, A., (2017). When do learned transformations influence similarity and categorization? In *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
12. **Hendrickson, A.T.**, Navarro, D.J., Perfors, A. (2016). Sensitivity to hypothesis size during information search. *Decision*, 3(1), 62-80.
13. 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. In *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. **Winner of the 2016 Marr Prize for computational modeling**.
14. **Hendrickson, A.T.**, Navarro, D.J., Donkin, C. (2015). Quantifying the time course of similarity. In *Proceedings of the 37th Annual Conference of the Cognitive Science Society*.
15. **Hendrickson, A.T.**, Perfors, A., Navarro, D. J. (2014). Adaptive information source selection during hypothesis testing. In *Proceedings of the 36th Annual Conference of the Cognitive Science Society*.
16. Langsford, S., **Hendrickson, A.T.**, Perfors, A., Navarro, D. J. (2014). People are sensitive to hypothesis sparsity during category discrimination. In *Proceedings of the 36th Annual Conference of the Cognitive Science Society*.
17. Todd, P. M., Hills, T. T., **Hendrickson, A.T.** (2013). Modeling reproductive decisions with simple heuristics. *Demographic Research*, 29, 641-661.
18. Vong, W.K., **Hendrickson, A.T.**, Perfors, A., Navarro, D. J. (2013). The role of sampling assumptions in generalization with multiple categories. In *Proceedings of the 35th Annual Conference of the Cognitive Science Society*.

19. **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. In *Proceedings of the 34th Annual Conference of the Cognitive Science Society*.
20. **Hendrickson, A.T.**, Kachergis, G., Faucey, C. M., Goldstone, R. L. (2012) Re-learning labeled categories reveals structured representations. In *Proceedings of the 34th Annual Conference of the Cognitive Science Society*
21. **Hendrickson, A.T.**, Todd, P. M., Fortenberry, J. D. (2010) Modeling decision making in mate choice within and across relationships. In *Proceedings of the 22nd annual meeting of the Human Behavior and Evolution Society*.
22. **Hendrickson, A.T.**, Kachergis, G., Gureckis, T. M., Goldstone, R. L. (2010) Is categorical perception really verbally mediated perception? In *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*.
23. Goldstone, R. L., **Hendrickson, A.T.** (2009) Categorical Perception. *Wiley Interdisciplinary Reviews: Cognitive Science*, 1, 69-78.
24. **Hendrickson, A.T.**, Goldstone, R. L. (2009) Perceptual Unitization in Part-Whole Judgments. In *Proceedings of the 31st Annual Conference of the Cognitive Science Society*
25. **Hendrickson, A.T.**, Goldstone, R. L. (2007) Feature Learning Within Categorization. In *Proceedings of the 29th Annual Conference of the Cognitive Science Society*.

PAPERS UNDER REVIEW

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. Vanden Abeele, M.M.P, **Hendrickson, A.T.**, Pollmann, M.M., Ling, R. Phubbing behavior in conversations and its relation to perceived conversation intimacy and distraction: An exploratory observation study. *Computers in Human Behavior*.

TEACHING

<i>Advanced Data Processing in Python</i> Tilburg University	Spring 2017, 2018, 2019
<i>Introduction to Cognitive Science</i> Tilburg University	Fall 2017, 2018
<i>Introduction to Statistics in R</i> Tilburg University	Fall 2017
<i>Perception and Cognition</i> University of Adelaide	October 2016
<i>Workshop on implementing online experiments</i> Presenter and primary organizer Annual Meeting of the Australasian Society for Experimental Psychology (2015) University of Adelaide (2014)	2014 & 2015

Cognitive Psychology Fall 2009, 2010
Indiana University

Research Methods for Experimental Psychology Spring 2008
Indiana University

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

AWARDS

Teacher of the Year 2017
Department of Cognitive Science & Artificial Intelligence
Tilburg University

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

SUPERVISION

I currently supervise one PhD student, George Aalbers.

I previously supervised three PhD students at the University of Adelaide (Steven Langsford, Lauren Kennedy, and Wai Keen Vong) who successfully completed their theses in 2017 and 2018.

I supervise roughly 20 Master's students per year. They come from both the Cognitive Science & Artificial Intelligence and the Data Science & Society Master's thesis programs. Please see my webpage for sample theses.

ADMIN

Master's thesis coordinator September 2018 - now
Programs of Data Science & Society and Cognitive Science & Artificial Intelligence
Tilburg University

GRANTS

Advancing Society: IMPACT Health & Wellbeing (€250,000) 2018-2021
Are smartphones destroying a generation? A longitudinal cohort study on the relationship between smartphone use and adolescents health wellbeing using logging, mobile experience sampling, and machine learning
Tilburg University

ARC Discovery Project (AUS\$290,011) 2018-2020

Where do inductive biases come from? A Bayesian investigation
Australian Research Council (ARC)

Creative industry - Knowledge Innovation Mapping (€18,000) 2018
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) 2012
Assessing the consistency of generalization across individuals
University of Adelaide

Student Research Grant Award (\$3,000) 2010
The Kinsey Institute, 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, International Communication Association

References and teaching evaluations available upon request.