

## Andrew Thomas Hendrickson

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Department of Cognitive Science and Artificial Intelligence, Tilburg University  
Dante Building, Room D335, Tilburg, Netherlands  
a.hendrickson@tilburguniversity.edu

**RELEVANT EMPLOYMENT** *Assistant Professor* January 2018 - present  
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* May 2005  
Carnegie Mellon University, Pittsburgh, PA, USA

**ACCEPTED PAPERS**

1. 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.
2. 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: a journal of general linguistics*, 3 (1), 37.

3. 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.
4. **Hendrickson, A.T.**, Navarro, D.J., Perfors, A. (2016). Sensitivity to hypothesis size during information search. *Decision*, 3(1), 62-80.
5. 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.**
6. **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).
7. **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).
8. 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).
9. Todd, P. M., Hills, T. T., **Hendrickson, A.T.** (2013). Modeling reproductive decisions with simple heuristics. *Demographic Research*, 29, 641-661.
10. 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).
11. **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).
12. **Hendrickson, A.T.**, Kachergis, G., Faucey, C. M., Goldstone, R. L. (2012) Re-learning labeled categories reveals structured representations. Proceedings of the 34th Annual Conference of the Cognitive Science Society. (pp. 1668-1673).
13. **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.
14. **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).
15. Goldstone, R. L., **Hendrickson, A.T.** (2009) Categorical Perception. *Wiley Interdisciplinary Reviews: Cognitive Science*, 1, 69-78.
16. **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).

17. **Hendrickson, A.T.**, Goldstone, R. L. (2007) Feature Learning Within Categorization. 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. **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. 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*.

## TEACHING

*Advanced Data Processing in Python* Spring 2017, 2018  
Tilburg University

*Introduction to Cognitive Science* Fall 2017  
Tilburg University

*Introduction to Statistics in R* Fall 2017  
Tilburg University

*Perception and Cognition* October 2016  
University of Adelaide

*Workshop on implementing online experiments* 2014 & 2015  
Presenter and primary organizer  
Annual Meeting of the Australasian Society for Experimental Psychology (2015)  
University of Adelaide (2014)

*Cognitive Psychology* Fall 2009, Fall 2010  
Indiana University

*Research Methods for Experimental Psychology* Spring 2008  
Indiana University

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

## GRANTS

*Advancing Society: IMPACT Health & Wellbeing* (€250,000) 2018-2021  
*Are smartphones destroying a generation? A longitudinal cohort study on the relation-*

*ship 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

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

I successfully supervised 5 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** *Teacher of the Year (Cognitive Science and Artificial Intelligence)* (\$3,000, declined) 2017

*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** Adaptive Behavior, Behavior Research Methods, Cognitive Science, Cortex, Decision,  
**REVIEWING** 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.