

George Kachergis

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Education

Ph.D. (Expected 2012), Doctoral Program in Psychological and Brain Sciences, and Cognitive Science, Advisory Committee: Richard M. Shiffrin, Michael N. Jones, John Kruschke, Robert Goldstone, Chen Yu. GPA 3.98/4.

B.A. Cognitive Studies and Computer Science, Carleton College 2007. *Magna cum laude* with distinction in Cognitive Studies.

Probabilistic Models of Cognition Summer School, Institute for Pure and Applied Mathematics 2011.

Budapest Semester in Cognitive Science, Eötvös Loránd Science University, Fall 2005.

Journal Articles

Kachergis, G., Yu, C., and Shiffrin, R. M. (in prep). *A Bootstrapping Associative Model for Cross-Situational Word Learning*.

Kachergis, G., Yu, C., and Shiffrin, R. M. (in prep). *Temporal Contiguity Improves Cross-Situational Word Learning*.

Trueblood, J. S., **Kachergis, G.**, and Kruschke, J. K. (in prep). *A Cue Imputation Bayesian Model of Information Aggregation*.

Kachergis, G., Yu, C., and Shiffrin, R. M. (2012). *An Associative Model of Adaptive Inference for Learning Word-Referent Mappings*. *Psychonomic Bulletin & Review*.

Cox, G., **Kachergis, G.**, Recchia, G., and Jones, M. N. (2011). *Towards a Scalable Holographic Word-form Representation*. *Behavior Research Methods*.

Refereed Conference Proceedings

Kachergis, G. (accepted). *Learning Words with Domain-General Associative Learning Mechanisms*. CogSci 2012.

Kachergis, G., Yu, C., and Shiffrin, R. M. (accepted). *Actively Learning Nouns Across Ambiguous Situations*. CogSci 2012.

Hendrickson, A. T. **Kachergis, G.**, Fausey, C., and Goldstone, R. L. (accepted). *Re-learning labeled categories reveals structured representations*. CogSci 2012.

Cox, G. E., **Kachergis, G.**, and Shiffrin, R. M. (accepted). *Gaussian Process Regression for Trajectory Analysis*. CogSci 2012.

Kachergis, G., Recchia, G., and Shiffrin, R. M. *Adaptive Magnitude and Valence Biases in a Dynamic Memory Task*. 33rd Annual Meeting of the Cognitive Science Society, Boston, MA. July 2011.

Kachergis, G., Cox, G. E., and Jones, M. N. *OrBEAGLE: Integrating Orthography into a Holographic Model of the Lexicon*. 21st Annual International Conference on Artificial Neural Networks, Espoo, Finland. June 2011.

Trueblood, J. S., **Kachergis, G.**, and Kruschke, J. K. *A Cue Imputation Bayesian Model of Information Aggregation*. 33rd Annual Meeting of the Cognitive Science Society, Boston, MA. *July 2011*.

Gangwani, T., **Kachergis, G.**, and Yu, C. *Simultaneous Cross-situational Learning of Category and Object Names*. 32nd Annual Meeting of the Cognitive Science Society, Portland, Oregon. *August 2010*.

Hendrickson, A. T., **Kachergis, G.**, Gureckis, T. M., and Goldstone, R. L. *Is categorical perception really verbally mediated perception?* 32nd Annual Meeting of the Cognitive Science Society, Portland, Oregon. *August 2010*.

Kachergis, G., Yu, C., and Shiffrin, R. M. *Cross-Situational Statistical Learning: Implicit or Intentional?* 32nd Annual Meeting of the Cognitive Science Society, Portland, Oregon. *August 2010*.

Kachergis, G., Yu, C., and Shiffrin, R. M. *Adaptive Constraints and Inference in Cross-Situational Word Learning*. 32nd Annual Meeting of the Cognitive Science Society, Portland, Oregon. *August 2010*.

Kachergis, G., Yu, C., and Shiffrin, R. M. *Frequency and Contextual Diversity Effects in Cross-Situational Word Learning*. 31st Annual Meeting of the Cognitive Science Society, Amsterdam, the Netherlands. *July 2009*.

Kachergis, G., Yu, C., and Shiffrin, R. M. *Temporal Contiguity in Cross-Situational Statistical Learning*. 31st Annual Meeting of the Cognitive Science Society, Amsterdam, the Netherlands. *July 2009*.

Barbella, D., **Kachergis, G.**, Liben-Nowell, D., Sallstrom, A., and Sowell, B. *Depth of Field and Cautious-Greedy Routing in Social Networks*. 18th International Symposium on Algorithms and Computation, Sendai, Japan. *17 December 2007*.

Conference Presentations

Kachergis, G., Yu, C., Shiffrin, R. M. *Active Cross-situational Statistical Word Learning*. Poster presented at the 33rd Annual Meeting of the Cognitive Science Society, Boston, MA. *July 2011*.

Kachergis, G., Yu, C., Shiffrin, R. M. *An Associative Model of Inference in Statistical Word Learning*. 44th Annual Meeting of the Society for Mathematical Psychology, Boston, MA. *July 2011*.

Kachergis, G., Yu, C., Shiffrin, R. M. *Modeling the Acquisition of the Mental Lexicon*. 43rd Annual Meeting of the Society for Mathematical Psychology, Portland, OR. *August 2010*.

Kachergis, G., Yu, C., Shiffrin, R. M. *Modeling Frequency and Context Effects in Statistical Word Learning*. 42nd Annual Meeting of the Society for Mathematical Psychology, Amsterdam, the Netherlands. *August 2009*.

Gangwani, T., **Kachergis, G.**, Yu, C. *Simultaneous Noun and Category Learning via Cross-Situational Statistics*. 31st Annual Meeting of the Cognitive Science Society, Amsterdam, the Netherlands. *July 2009*.

Kachergis, G., Yu, C., Shiffrin, R. M. *The Semantics of Eye Movements in Cross-Situational Statistical Word Learning*. 41st Annual Meeting of the Society for Mathematical Psychology, Washington, D.C. *27 July 2008*.

Kachergis, G., Yu, C., Shiffrin, R. M. *Temporal Continuity in Cross-Situational Statistical Learning*. 30th Annual Meeting of the Cognitive Science Society, Washington, D.C. 25 July 2008.

Kachergis, G., Yu, C., Shiffrin, R. M. *The Automaticity of Statistical Word Learning*. 30th Annual Meeting of the Cognitive Science Society, Washington, D.C. 25 July 2008.

Kachergis, G., Shiffrin, R. M. *The Effects of Repeated Sequential Context on Recognition*. 7th Annual Summer Interdisciplinary Conference, Madonna di Campiglio, Italy. 10 July 2008.

Kachergis, G., Yu, C., Shiffrin, R. M. *The Automaticity of Cross-Situational Statistical Learning*. Redhawk Mental Life, Oxford, OH. 8 March 2008.

Ohnesorge, C., **Kachergis, G.** *Testing the Whorfian Hypothesis: Lateralized Presentation and Color Recognition*. 48th Annual Meeting of the Psychonomic Society, Long Beach, CA. 17 November 2007.

Kachergis, G., Ohnesorge, C. *Whorf hypothesis not supported at a perceptual level*. MidBrains, Macalester College, St. Paul, MN. 28 April 2007.

Ohnesorge, C., Fanta, A., **Kachergis, G.** *Color Recognition and Laterality: Does Language Affect Color Processing?* 6th Annual Summer Interdisciplinary Conference, Kalymnos, Greece. 28 June 2007.

Barbella, D., **Kachergis, G.**, Liben-Nowell, D., Sallstrom, A., and Sowell, B. *Greedy Routing in Social Networks*. All Math and Science Poster Session, Carleton College, Northfield, MN. 20 October 2006.

Kachergis, G., Olson, J. F. *Lexical Variety in Human Processing of Syntactically Ambiguous Sentences*. Minnesota Undergraduate Psychology Conference, University of St. Thomas, St. Paul, MN. 22 April 2006.

Teaching, Supervision, and Departmental Service

Inverting the Classroom, Pedagogy Seminar Talk, *Spring, 2012*

Teaching Assistant for Human Learning and Cognition, *Spring, 2012*

Instructor for P211 Experimental Methods in Psychology, *Spring, 2010*

Modeling the Acquisition of the Mental Lexicon, Cognitive Lunch Talk, *Spring, 2010*

Grader for Artificial Intelligence, Prof. David Musicant, *Winter, 2007*

Prefect for Data Structures, Prof. David Liben-Nowell, *Winter, 2006*

Guest lecture presented in Introduction to Psychology, Instr. Hilary Kalagher, *Spring, 2009*

Coordinator for Indiana University Cognitive Lunch talk series, *Fall 2010 to Fall 2011*

Supervised student research assistants: J. Booher, E. Farmer, T. Gangwani, Z. Horwitz, K. Mullen, E. Lee, P. LaFree, A. Salisbury, B. Jenkins

Awards

National Science Foundation East Asia & Pacific Summer Institute (Japan), *2012*

Indiana University Cognitive Science Supplemental Research Fellowship, *2011*

William K. Estes Summer Research Award, Indiana University Psychology Department, *2011*

European Neural Network Society Student Travel Award, *2011*

Society for Mathematical Psychology Student Travel Award, *2011*

Society for Mathematical Psychology Student Travel Award, *2010*

Society for Mathematical Psychology Student Travel Award, 2009

Indiana University Cognitive Science Supplemental Research Fellowship, 2009

Membership and Professional Service

Member of Cognitive Science Society, *2005–Present*

Member of The Society for Mathematical Psychology, *2008–Present*

Member of Sigma Xi Scientific Research Society, *2007–Present*

Member of Association for Computing Machinery, *2004–2007*

Ad hoc reviewer: Cognition, Cognitive Science, Cognitive Science Conference, Language Learning