

Irina Danileiko

Department of Cognitive Sciences
University of California, Irvine
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EDUCATION

Doctor of Philosophy, Psychology
University of California, Irvine, expected June 2018

Master of Arts, Psychology
University of California, Irvine, December 2015

Bachelor of Arts, Psychology
University of California, Irvine, June 2013
Minors: Biomedical Engineering, Linguistics

RESEARCH EXPERIENCE

Graduate Student Researcher 2013-present
Department of Cognitive Sciences, University of California, Irvine
Advisor: Michael D. Lee

- Develop computational models to investigate individual differences and cognitive processes of categorization behavior
- Develop models of aggregating people's behavior as a "wisdom of crowds" approach to predict real-world probabilities
- Implement Bayesian graphical models in Matlab using Gibbs sampling programs such as JAGS

Undergraduate Research Assistant 2011-2013
Memory and Decision Making Lab, University of California, Irvine
Honors Thesis Advisor: Michael D. Lee

- Implemented a Bayesian predictive computational model for "wisdom of crowds" probability judgment aggregation
- Parsed data from the web into data structures in Matlab
- Wrote an IRB protocol for running crowdsourced survey data collection on Amazon Mechanical Turk

Undergraduate Research Assistant 2012
Syntax Lab, University of California, Irvine

- Assisted with neural data collection by prepping participants' EEG caps

PAPERS

Danileiko, I., & Lee, M.D. (2016). Inferring individual differences between and within exemplar and decision-bound models of categorization. In J. Trueswell, A. Papafragou, D. Grodner, & D. Mirman (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Danileiko, I., Lee, M.D., & Kalish, M.L. (2015). A Bayesian latent mixture approach to modeling individual differences in categorization using General Recognition Theory. D.C. Noelle & R. Dale (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Lee, M.D., & **Danileiko, I.** (2014). Using cognitive models to combine probability estimates. *Judgment and Decision Making*, 9(3), 259-273.

TALKS

Annual Meeting of the Cognitive Science Society (2016). Talk title: Inferring individual differences between and within exemplar and decision-bound models of categorization. Philadelphia, PA.

Annual Meeting of the Society for Mathematical Psychology (2016). Talk title: The wisdom of the crowd in category learning. New Brunswick, NJ.

Annual Meeting of the Society for Mathematical Psychology (2015). Talk title: A Bayesian Implementation of General Recognition Theory. Newport Beach, CA.

Applications of Mathematical Psychology in Industry meeting (2015). Talk title: The crowd is wise but biased. Newport Beach, CA.

Annual Meeting of the Society for Mathematical Psychology (2014). Talk title: A wisdom of crowds approach to predicting category structures. Quebec City, Canada.

UCI Undergraduate Research Symposium (2013). Talk title: Calibration of Peoples Estimates of Probabilities in Soccer. Irvine, CA

POSTERS

Annual Meeting of the Society for Judgment and Decision Making (2016). Poster title: Using a cognitive model to combine probability estimates. Boston, MA.

Annual Meeting of the Cognitive Science Society (2015). Poster title: A Bayesian Latent Mixture Approach to Modeling Individual Differences in Categorization Using General Recognition Theory. Pasadena, CA.

Annual Meeting of the Society for Judgment and Decision Making (2014). Poster title: Aggregating probability judgments using cognitive models. Long Beach, CA.

Summer School on Computational Modeling of Cognition (2014). Poster title: Using the wisdom of crowds to categorize. Laufen, Germany.

Annual Meeting of the Society for Mathematical Psychology (2013). Poster title: Using cognitive models to combine people's estimates of probabilities. Potsdam, Germany.

Annual Meeting of the Society for Mathematical Psychology (2012). Poster title: People's estimation of probabilities in football (soccer) games. Columbus, OH.

OTHER ACTIVITY

Scientific Consultant for Disabilities Services 2015-present

- Collaborate with the Disabilities Services Center to write text transcriptions of speakers' presentation slides with scientific imagery for visually impaired students.

Graduate Student Liaison 2014-present

- Plan and coordinate graduate recruitment visit days for prospective students
- Organize post-talk lunches for visiting colloquium speakers

Summer School on Computational Modeling of Cognition 2014
 Laufen, Germany

- Two-week summer school dedicated to hands-on instruction of cognitive modeling methods using Matlab and Gibbs sampling
- Presented a poster proposing a project on implementing a categorization model into a Bayesian framework to be done during the school
- Completed the proposed project and presented a talk on the work to the other students and the instructors

TEACHING EXPERIENCE *Teaching Assistant* 2013-present
 University of California, Irvine

- Psychology Fundamentals
- Probability and Statistics in Psychology
- Cognitive Science
- Effective Graphical Presentation of Data
- Industrial and Organizational Psychology
- Matlab Programming

Third Annual JAGS and WinBUGS Workshop 2013
 Amsterdam, Netherlands

- Volunteer student teacher at the workshop organized by Drs. Michael D. Lee and E.J. Wagenmakers
- Helped acquaint graduate students and professors with Bayesian cognitive modeling techniques

HONORS & AWARDS

Indiana University, Young Scientist Travel Award	2016
A. K. Romney Fellowship in Quantitative Research	2016
Society for Mathematical Psychology, Travel Award	2015
Women of Mathematical Psychology Travel and Networking Award	2015
Society for Mathematical Psychology, Travel Award	2014
Society for Mathematical Psychology, Travel Award	2013
Undergraduate Research Opportunities Program (UROP) grant	2013
Summer Undergraduate Research Program (SURP) stipend	2012
Department of Cognitive Sciences Honors Program	2011-2013

SOCIETY MEMBERSHIP

Society for Judgment and Decision Making, Student Membership	2014-present
Cognitive Science Society, Student Membership	2014-present
Society for Mathematical Psychology, Student Membership	2013-present
Psi Chi (International Honor Society in Psychology)	Inducted May 2012

SKILLS

Computer: MATLAB, JAGS, WinBUGS, Python, L^AT_EX, HTML/CSS
Fluent Languages: English, Russian