Ian T. Ruginski

Curriculum Vitae

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Education

2013–2018 **M.S., Ph.D, Psychology**, *University of Utah*, Salt Lake City, UT.
Cognition and Neural Science Focus, GPA: 4.00
Advisors: Dr. Sarah Creem-Regehr & Dr. Jeanine Stefanucci

2009–2013 **B.A., Cognitive Science and Religious Studies**, *Vassar College*, NY.
Cognitive Science GPA: 3.51, Religious Studies GPA: 3.62
Thesis Advisors: Dr. Michele Tugade and Dr. Ken Livingston
Thesis Title: Religiously Affiliated Postures' Roles in Moderating Emotional Experience

Dissertation

title *Individual Differences in Mobility and Spatial Abilities*

supervisors Dr. Sarah Creem Regehr, Dr. Jeanine Stefanucci, Dr. Brian Baucom, Dr. Kristina Rand, & Dr. Elizabeth Cashdan

description Validated a novel self-report scale of mobility (frequency of travel and how one travels), and found that GPS-use is associated with worse small-scale spatial abilities, which are in turn associated with a lesser ability to learn a virtual environment.

Research Interests

areas Visual perception, uncertainty visualization, spatial cognition, emotion

approaches Individual differences, dynamical systems, evolutionary, model fit comparison

methods Behavioral, physiological, emotion manipulation, real-world, virtual reality

Publications

in press **Ruginski, I.T.**, Stefanucci, J.K., & Creem-Regehr, S.H. The effect of anxiety on gender differences in survey spatial learning. *Proceedings of Spatial Cognition Conference*.

in press **Ruginski, I.T.**, Thomas, B.J., Geuss, M.N., & Stefanucci, J.K. Anxiety Influences the Perceptual-Motor Calibration of Visually-Guided Braking to Avoid Collisions. *Journal of Motor Behavior*.

2017 Padilla, L.M., **Ruginski, I.T.**, & Creem-Regehr, S.H. Effects of Ensemble and Summary Displays on Interpretations of Geospatial Ensemble Data.*Cognitive Research: Principles and Implications*, 2(40).

2017   Liu, L., Boone, A.P., **Ruginski, I.T.**, Padilla, L.M., Hegarty, M., Creem-Regehr, S.H., Thompson, W.B., Yuskel, C., & House, D.H. Uncertainty Visualization by Representative Sampling from Prediction Ensembles. *IEEE Transactions on Visualization and Computer Graphics*, 23(9), 2165-2178

2016   **Ruginski, I.T.**, Boone, A.P., Padilla, L.P., Kramer, H.S., Hegarty, M., Thompson, W.B., House, D.H., & Creem-Regehr, S.H. Non-expert interpretations of hurricane forecast uncertainty visualizations. *Spatial Cognition and Computation*, 16(2). Special Issue on Visually-Supported Spatial Reasoning with Uncertainty, 154-172.

2015   Padilla, L.M., Hansen, G., **Ruginski, I.T.**, Kramer, H.S., Thompson, W.B., & Creem-Regehr, S.H. (2015). The influence of different graphical displays on non-expert decision making under uncertainty. *Journal of Experimental Psychology: Applied*, 21(1), 37-46.

In Preparation

2018   Cashdan, E., **Ruginski, I.T.**, Barhorst, E., Creem-Regehr, S.H., & Stefanucci, J.K. (in prep). Mobility for Spatial Cognition and Navigation: Developing and validating a self-report scale to characterize mobility patterns.

2018   **Ruginski, I.T.**, Creem-Regehr, S.H., Stefanucci, J.K. & Cashdan, E. (in prep). Mobility improves learning of novel environments by enhancing small scale spatial abilities.

Conference Presentations

Talks

2017   Padilla, L.M., **Ruginski, I.T.**, Creem-Regehr, S.H., Liu, L., & House, D.H. (2017, November). Exploring Decision Biases with Ensemble Display Visualizations. Talk presented at Object Perception, Attention, and Memory. Vancouver, B.C.

2017   **Ruginski, I.T.**, Barhorst-Cates, E., Cashdan, E.A., Stefanucci, J.K., & Creem-Regehr, S.H. (2017, April). Mobility for Spatial Cognition and Navigation: Developing and validating a self-report scale to characterize travel motivations. Annual Meeting of the Rocky Mountain Psychological Association. Salt Lake City, UT

2015   **Ruginski, I.T.**, Stefanucci, J.K., & Creem-Regehr, S.H. (2015, November). The effect of anxiety on gender differences in survey spatial learning. Annual Meeting of the Psychonomic Society. Chicago, IL.

2015   **Ruginski, I.T.**, Boone, A.P., Padilla, L.P., Heydari, N., Kramer, H., Hegarty, M., Thompson, W.B., House, D.H., & Creem-Regehr, S.H. (2015, April). Non-expert interpretations of hurricane forecast uncertainty visualizations. Annual Meeting of the Rocky Mountain Psychological Association. Boise, Idaho.

Posters

2018   Gill, D.M., **Ruginski, I.T.**, Thomas, B.J., & Stefanucci, J.K. Leader-follower Dynamics, Agency, and Anxiety in Joint Action Braking: A first-order dynamical systems model. Poster to be presented at Cognitive Science Society Annual Meeting. Madison, WI.

2018   Gill, D.M., **Ruginski, I.T.**, Butner, J., Geuss, M.N., Stefanucci, J.K., & Creem-Regehr, S.H. (2018, April). Investigating Insight Generation and Decision Making with Visualizations in Real and Virtual Environments. Poster presented at American Psychological Association's conference on Technology, Mind, & Society. Washington D.C.

2017   **Ruginski, I.T.**, Barhorst-Cates, E., Cashdan, E.A., Creem-Regehr, S.H., & Stefanucci, J.K. (2017, November). Mobility for Spatial Cognition and Navigation: Developing and validating a self-report scale to characterize travel patterns. Poster presented at Psychonomic Society Annual Meeting. Vancouver, B.C.

2017   Padilla, L.M., **Ruginski, I.T.**, Creem-Regehr, S.H., Liu, L., House, D.H., & Thompson, W.B. (2017, November). Exploring Decision Biases with Ensemble Display Visualizations. Poster presented at Psychonomic Society Annual Meeting. Vancouver, B.C.

2017   Raj, M., **Ruginski, I.T.**, Kirby, R.M., & Whitaker, R.T. (2017, September). Summarizing and Visualizing Graph Ensembles with Rank Statistics and Boxplots. Poster presented at 25th International Symposium on Graph Drawing and Network Visualization. Boston, MA

2017   Thomas, B.J., Geuss, M.N., **Ruginski, I.T.**,& Stefanucci, J.K. (2017, May). Braking Bad: Arousal influences the visual guidance of braking. Poster presented at Vision Sciences Society Annual Meeting. St. Petersburg, FL.

2017   Stefanucci, J.K., Creem-Regehr, S.H., Cashdan, E.A., Barhorst-Cates, E., Gagnon, K., **Ruginski, I.T.**, Padilla, L., & Vashro, L. (2017, March). Mobility contributes to sex differences in spatial cognition and navigation. Poster presented at International Convention of Psychological Science. Vienna, Austria.

2016   **Ruginski, I.T.**, Gill, D.M, Padilla, L.M., Stefanucci, J.K., & Cashdan, E. (2016, August). The effect of sex and parenthood on perceived distances to objects. Poster presented at Annual Meeting of the Psychonomic Society. Boston, MA.

2016   Padilla, L.M., **Ruginski, I.T.**, & Creem-Regehr, S. (2016, August). Interpretations of ensemble versus summary displays of uncertainty in hurricane forecasts: size and intensity judgments. Poster presented at Spatial Cognition. Philadephia, PA.

2015   Geuss, M.G., **Ruginski, I.T.**, & Stefanucci, J.K. (2015, September). Anxiety alters visual guidance of braking over time. Poster presented at Driving Simulation Conference Europe. Tubingen, Germany.

2015   **Ruginski, I.T.**, Boone, A.P., Padilla, L.P., Hegarty, M., Thompson, W.B., House, D.H., & Creem-Regehr, S.H. (2015, July). Understanding the Cone of Uncertainty: Non-expert interpretations of hurricane forecast uncertainty visualizations. Poster presented at Annual Meeting of the Cognitive Science Society. Pasadena, CA.

2014   **Ruginski, I.T.**, Geuss, M.G., & Stefanucci, J.K. (2014, November). Braking bad: differences in the visual guidance of braking behavior when anxious. Poster presented at Annual Meeting of the Psychonomic Society. Long Beach, CA.

Funding, Fellowships, & Honors

2017-2018   **Departmental Teaching Commendation**, *University of Utah*.

fall 2017	**Psychology Department Travel Award**, *University of Utah*, $1000.
summer 2017	**Summer fellow for Data Science**, *Sorenson Impact Center*, University of Utah.
2016-2017	**Departmental Teaching Commendation**, *University of Utah*.
spring 2017	**First Place, College of Social and Behavioral Sciences Student Research Day co-author**, *University of Utah*, $250.
spring 2017	**Pilot Grant co-author**, *Army Research Lab and University of Utah*, $40,000.
fall 2015	**Graduate School Travel Award**, *University of Utah*, $800.
fall 2014	**Graduate School Travel Award**, *University of Utah*, $800.
spring 2014	**Letter of Recognition for Teaching Excellence**, *University of Utah*.
fall 2014	**Clayton Scholars Fellowship**, *University of Utah*, $6,000.
fall 2012	**Albert W. Cretella, Jr. 1st-generation college student scholarship**, *Vassar College*, $60,000.
2010-2013	**Scholar-Athlete Award**, *Vassar College*.

Additional Research Experience

2012	**Research Assistant**, *Brown University*, Providence, RI.
	Department of Cognitive, Linguistic, and Psychological Sciences
	Virtual Environment and Navigation Research Laboratory (VENLab)
	Principal Investigator: Dr. William Warren.
2012	**Research Assistant**, *Vassar College*, Poughkeepsie, NY.
	Department of Psychology
	Auditory Emotional Stroop Study
	Principal Investigator: Dr. Carol Christensen.

Teaching Experience

fall 2017	**Teaching Assistant**, *University of Utah*, Department of Psychology.
	PSY 65150: Structural Equation Modeling
	Primary Instructor: Dr. Jonathan Butner
summer 2017-spring 2018	**Statistical Consultant**, *University of Utah*, Department of Psychology.
	Graduate Statistics Consultant
	Primary Instructors: Dr. Jonathan Butner, Dr. Brian Baucom, Dr. Pascal Deboeck
spring 2017	**Teaching Assistant**, *University of Utah*, Department of Psychology.
	PSY 6510: Graduate Quantitative Methods II
	Primary Instructor: Dr. Pascal Deboeck
fall 2016	**Teaching Assistant**, *University of Utah*, Department of Psychology.
	PSY 6500: Graduate Quantitative Methods I
	Primary Instructor: Dr. Jonathan Zadra
spring 2014	**Teaching Assistant**, *University of Utah*, Department of Psychology.
	PSY 3150: Sensation & Perception
	Primary Instructor: Dr. Jeanine Stefanucci
spring 2014	**Research Assistant**, *University of Utah*, Departments of Management, Economics, Philosophy, & Psychology.
	2nd-gen Cognitive Science course development
	Principle Investigators: Dr. Bill Schulze & Dr. Russell McBride

Skills

statistics	MLM, Regression, SEM	software	R, SPSS, HLM
front end	HTML, CSS, FTP	general	Git, Markdown, MS Office
virtual reality	Unity, Vizard, Oculus	stimuli	Qualtrics, E-Prime

Affiliations

American Psychological Association
Executive Board Student Rep., Division of Applied and Engineering Psychology

Cognitive Science Society
Student member

Psychonomic Society
Student member

College, University, & Local Service

2014-2018 **Student Mentor**, *Academy for Math, Engineering, & Science*, Salt Lake City, UT.
Acted as a mentor for Utah high school students in preparing psychology focused science projects. Mentee Vy Ho awarded $500 STEM Action Center Student Grant and received first place at Local Charter High School Science Fair.

2015-2016 **Student Rep.**, *Professional Issues and Ethics Committee*, University of Utah.
Nominated by student peers and acted as the Cognition and Neural Science area student representative. Relayed graduate student concerns related to professional issues anonymously to the CNS area head and chairs of the PIE committee.

2014-2015 **Committee Member**, *Diversity Committee*, University of Utah.
Promoting the teaching and understanding of diversity, providing expertise for and promoting research that seeks to understand the meaning of diversity of particular phenomenon across cultural groups, served as a support system for minority and underrepresented students and faculty in the psychology department at the University of Utah.

2013 **Student Rep.**, *Psychology Student Advisory Committee*, University of Utah.
Mentored undergraduates about the value of research in the field of psychology, the type of research specific to the VPSC lab, and how to become more closely involved in research as an undergraduate.

2013-present **Interviewer**, *Alumnae Admissions Program*, Vassar College.
Volunteer position interviewing prospective students applying for admission to alma mater, Vassar College.

2012-2013 **Student Representative**, *Student Athletic Advisory Committee*, Vassar College.
A committee of Vassar Athletes working with administration to make decisions about funding, events, and athlete/coaching needs in the Athletics Department

2011-2013 **Peer Advisor**, *Peer Advising Program*, Vassar College.
Acted as an academic mentor for underclassmen in Cognitive Science, Psychology, and Religious Studies Majors at Vassar College.

2011-2013 **Student Member**, *Cognitive Science of Religion Research Group*, Vassar College.
Helped develop new and innovative research ideas utilizing cognitive science and psychology to study religious beliefs and experiences.

2010-2011	**Student Fellow**, *Office of Residential Life*, Vassar College.
	Trained to provide social, academic, and personal guidance to a group of First-year students living together in a residential dormitory. Similar role to a resident assistant (RA) in a University setting.
2009-2013	**Team Captain**, *Men's Rugby Club*, Vassar College.
	Gained valuable time management, leadership, and teamwork skills. Helped lead team to #17 National Ranking in Men's Collegiate Division II Rugby. Appointed Team Captain for 2012-2013 seasons by coaches and teammates.

References

Dr. Sarah Creem-Regehr, *University of Utah*, Department of Psychology.
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Dr. Jonathan Butner, *University of Utah*, Department of Psychology.
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