### Dr. Benjamin Wolfe

University of Toronto Mississauga Department of Psychology 3359 Mississauga Road Mississauga, ON, L5L 1C6

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### PROFESSIONAL APPOINTMENTS

2021 - Assistant Professor

Department of Psychology, University of Toronto Mississauga

School of Graduate Studies, University of Toronto

Co-Director, Applied Perception and Psychophysics Lab (APPLY Lab)

2016 - 2020 Postdoctoral Associate, Rosenholtz Lab

Department of Brain and Cognitive Sciences Massachusetts Institute of Technology

PI: Dr. Ruth Rosenholtz

2015 – 2016 Postdoctoral Associate, AgeLab

Center for Transportation Logistics Massachusetts Institute of Technology Pls: Dr. Bryan Reimer and Bruce Mehler

### **AFFILIATIONS / STATUS-ONLY APPOINTMENTS**

2022 - Adjunct Faculty, Centre for Vision Research, York University

2022 - Associate Member, The Readability Consortium

#### **EDUCATION**

2015 Ph.D., Psychology

University of California at Berkeley

Advisor: Professor David Whitney; Cognition, Brain and Behavior Program

Dissertation: Before the Eye Moves: Remapping, Visual Stability and Perisaccadic Perception

2008 B.A., Psychology

**Boston University** 

#### RESEARCH INTERESTS

Visual perception; peripheral vision, scene perception, eye movements, visual attention, driving, readability

### **RESEARCH FUNDING**

2022-2024 University of Toronto Connaught Fund - New Researcher Award

Why don't we notice rare dangerous situations on the road, and what can we do about it?

\$20,000

2022 Adobe Research Award (Jointly awarded to Dr Benjamin Wolfe and Dr Anna Kosovicheva)

Effects of Highlighting and Underlining on the Visual Mechanisms of Reading

\$94,750, gift award to APPLY Lab (\$75,000 USD)

2021-2026	Natural Sciences and Engineering Research Council (NSERC) Discovery Grant Mechanisms of Visual Information Acquisition in Driving \$140,000 (\$28,000/year)	
2021-2026	Natural Sciences and Engineering Research Council (NSERC) Discovery Launch Supplement \$12,500	
2020	Adobe Research Award Virtual Reading Laboratory Project \$40,000, gift award to APPLY Lab (\$30,000 USD)	
2019 – 2020	Toyota Research Institute - CSAIL Joint Research Program Grant "Driver Perception and the Car-to-Driver Handoff" PI: Rosenholtz, supporting Benjamin Wolfe \$230,000 USD per year in direct support to Rosenholtz Lab	
2016 – 2018	Toyota Research Institute - CSAIL Joint Research Program Grant "Reducing the Pain Points in Driving" PI: Rosenholtz; supporting Benjamin Wolfe \$300,000 USD per year in direct support to Rosenholtz Lab	
2017	Transport Research Laboratories (PI: Rosenholtz) "Critical Event Response Thresholds" \$20,000 USD (gift award)	
2015	Google Faculty Research Award (PI: Rosenholtz)  "The role of eye movements in successful navigation during smartphone use"  \$67,000 USD (gift award)	
2011 – 2014	National Science Foundation Graduate Research Fellowship (GRFP) to Benjamin Wolfe \$120,000 USD in direct support and tuition coverage at UC Berkeley	
2005 – 2008	Boston University Undergraduate Research Opportunities Program (UROP) \$20,000 USD in direct support over three years (8 Competitive Renewals)	
SUBMITTED FUNDING APPLICATIONS		
2023	Canadian Institutes of Health Research (CIHR), <i>Program Grant</i> (CoPI)  An Interdisciplinary Approach for Preventing Retained Foreign Objects in Canadian Hospitals	
2023	University of Toronto – XSeed Program (Lead PI; with Dr. Birsen Donmez)  Normal Blindness: Why drivers miss other road users even though they are looking, and what can we do about it?	
2023	University of Toronto Mississauga – Research and Scholarly Activity Fund (Sole PI)  A proof of concept for individual visual reading interventions in medical contexts	
2022	Social Sciences and Humanities Research Council (SSHRC), <i>Insight Grant</i> (Lead PI) <i>Improving readability in the digital age: Optimizing variable fonts for individual readers</i>	

#### AWARDS AND HONORS

2019, 2021	Journal of Vision Exceptional Reviewer Award
2018	Transportation Review Board; Operations Section Young Author Award
2015, 2014	UC Berkeley Research Impact Initiative (Open Access Publication)
2015	UC Berkeley Psychology Department Travel Award
2014, 2013	UC Berkeley Graduate Division Travel Award

#### PUBLISHED PAPERS AND ARTICLES

- 1. (2022) Beier, S., Berlow, S., Boucaud, E., Bylinskii, Z., Cai, T., Cohn, J., ... & **Wolfe, B**. Readability Research: An Interdisciplinary Approach. *Foundations and Trends in Human-Computer Interaction*
- 2. (2022) Kosovicheva, A., Wolfe, J.M., **Wolfe, B.**, Taking Prevalence Effects on the Road: Rare hazards are often missed; *Psychonomic Bulletin and Review*
- 3. (2022) Wolfe, J.M., Kosovicheva, A., **Wolfe, B.**, Normal Blindness When we look but fail to see. *Trends in Cognitive Sciences*, 26(9), 809-819.
- 4. (2022) Vater, C., **Wolfe, B.A.**, Rosenholtz, R., Peripheral vision in real-world tasks: A systematic review; *Psychonomic Bulletin and Review*
- 5. (2021) **Wolfe, B.A.**, Kosovicheva, A., Stent, S., Rosenholtz, R., Effects of Temporal and Spatiotemporal Cues on Detection of Dynamic Road Hazards. *Cognitive Research: Principles and Implications*, 6(1), 80.
- 6. (2021) Nyström, M., Ahlström, C., Kircher, K., **Wolfe, B.**, Eye tracking in driver attention research how gaze data interpretations influence what we learn. *Frontiers in Neuroergonomics*.
- 7. (2021) Beier, S., Berlow, S., Boucaud, E., Bylinskii, Z., Cai, T., Cohn, J., ... & Wolfe, B. Readability Research: An Interdisciplinary Approach. *arXiv preprint arXiv:2107.09615*
- 8. (2020) **Wolfe, B. A.**, Sawyer, B., Rosenholtz, R., Towards a Theory of Visual Information Acquisition in Driving. *Human Factors*, 64(4), 694-713.
- 9. (2020) Sawyer, B., **Wolfe, B.**, Dobres, J., Chahine, N., Mehler, B., Reimer, B., Glanceable Legible Typography over Complex Backgrounds. *Ergonomics*, 63(7), 864-883.
- 10. (2019) **Wolfe, B. A.**, Seppelt, B., Mehler, B., Reimer, B., Rosenholtz, R., Rapid holistic perception and evasion of road hazards. *Journal of Experimental Psychology: General*, 149(3), 490.
- 11. (2019) **Wolfe, B. A.**, Sawyer, B., Kosovicheva, A., Reimer, B., Rosenholtz, R., Detection of Brake Lights While Distracted: Separating Peripheral Vision from Cognitive Load. *Attention, Perception and Psychophysics*, 81(8), 2798-2813.
- 12. (2019) **Wolfe, B. A.**, Fridman, L. Kosovicheva, A., Seppelt, B., Mehler, B., Reimer, B., Rosenholtz, R., Predicting Road Scenes from Brief Views of Driving Video. *Journal of Vision*, 19(5):8, 1–14.
- 13. (2018) **Wolfe, B.A.**, Rosenholtz, R., Peripheral Vision, Models Of. *Encyclopedia of Cognitive Neuroscience*.
- 14. (2018) Dobres, J., **Wolfe, B.**, Chahine, N., Reimer, B. The Effects of Visual Crowding, Text Size, and Positional Uncertainty on Text Legibility at a Glance. *Applied Ergonomics*, 70, 240-246.

- 15. (2018) Chen, Z., Kosovicheva, A., Wolfe, B., Cavanagh, P., Gorea, A., Whitney, D. Unifying Visual Space Across the Right and Left Hemifields. Psychological Science. 9(3), 356-369
- 16. (2017) Wolfe, B.A., Dobres, J., Rosenholtz, R., & Reimer, B. More Than the Useful Field: Considering Peripheral Vision in Driving. Applied Ergonomics. 65, 316-325
- 17. (2017) Wolfe, B., Fridman, L., Kosovicheva, A., Seppelt, B., Mehler, B., Reimer, B. Perceiving The Roadway In The Blink Of An Eye - Rapid Perception Of The Road Environment And Prediction Of Events. Conference Proceedings, Driving Assessment 2017.
- 18. (2017) Dobres, J., Chrysler, S. T., Wolfe, B., Chahine, N., & Reimer, B. Empirical Assessment of the Legibility of the Highway Gothic and Clearview Signage Fonts. Transportation Research Board 96th Annual Meeting, 2624(1), 1-8. (No. 17-04920). Won Operations Section Young Author Award from Transportation Review Board.
- 19. (2016) Wolfe, B., Dobres, J., Kosovicheva, A., Rosenholtz, R., Reimer, B., Age-related differences in the legibility of degraded text. Cognitive Research: Principles and Implications, 1(1), 1-13.
- 20, (2015) **Wolfe, B. A.**. Whitney, D. Saccadic remapping of object-selective information, *Attention*. Perception and Psychophysics. 77:7, 2260-2269.
- 21. (2015) Wolfe, B. A., Kosovicheva, A. A., Leib, A. Y., Wood, K. Whitney, D. Foveal input is not required for ensemble perception of emotional faces. Journal of Vision. 15(4), 11-11.
- 22. (2014) Kosovicheva, A. A., Wolfe, B. A., Whitney, D. Visual motion shifts saccade targets. Attention, Perception, & Psychophysics, 1-11.
- 23. (2014) Wolfe, B. A., Whitney, D. Facilitating recognition of crowded faces with presaccadic attention. Frontiers in Human Neuroscience. 8:103
- 24. (2010) Wolfe, B.A., Rushmore, R.J., Valero-Cabre, A. Coping With Spatial Attention in Real Space: A Low-Cost Portable Testing System for the Investigation of Visuo-Spatial Processing in the Human Brain, Journal of Neuroscience Methods, 187(2):190-8.
- 25. (2010) Swisher, J.D., Gatenby, J.C., Gore, J.C., Wolfe, B.A., Moon, C.H., Kim, S.G., Tong., F.. Multiscale pattern analysis of orientation-selective activity in the primary visual cortex. Journal of Neuroscience. 30(20):6811-2.

### SELECTED CONFERENCE PRESENTATIONS (student presenters underlined)

- 1. (2023) Simpson, D., Wolfe, B., & Kosovicheva, A. Individual differences in gaze behavior: Comparing high-level and sensory contributions. Poster presentation, Vision Sciences Society 2023
- 2. (2023) Gillies, G., Wolfe, B., Kosovicheva, A. Close, but not a T: Feedback, not similarity search, reduces the low-prevalence effect. Poster presentation, Vision Sciences Society 2023
- 3. (2023) Guidi, S., Haseeb, Z., Kosovicheva, A., & Wolfe, B. Psychophysics of variable fonts: Speed and comprehension measures. Poster presentation, Vision Sciences Society 2023
- 4. (2023) Haseeb, Z., Guidi, S., Wolfe, B., & Kosovicheva, A. Psychophysics of variable fonts: Gaze measures of reading efficiency. Poster presentation, Vision Sciences Society 2023
- 5. (2023) Wolfe, B., Gonzales, C., Kosovicheva, A. Where was the moose? The time course of dynamic road scene perception. Abstract submitted for the Vision Sciences Society Annual Meeting.

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- 6. (2023) <u>Song, J., Chua, A. M., Patil, M., Kosovicheva, A., & **Wolfe, B.** When should you warn the driver about the moose?: The effect of auditory cue timing on hazard localization in naturalistic videos. *Abstract submitted for the Vision Sciences Society Annual Meeting.*</u>
- 7. (2022) **Wolfe, B.**, Panelist and presenter, The Future of HFES By Some Of Those Who Will Create It, *Talk presentation at Human Factors and Ergonomics Society Annual Meeting, 2022*
- 8. (2022) <u>Song, J.</u>, Kosovicheva, A., **Wolfe, B**. You'll still miss the moose on the road: Rare hazards are frequently missed even when they are perceived as highly dangerous. *Talk presentation Object Perception Attention and Memory (OPAM) meeting at Psychonomic Society Annual Meeting.*
- 9. (2022) **Wolfe, B.A.** Eye Movements and Information Acquisition. 7<sup>th</sup> International Conference on Traffic and Transport Psychology (ICTTP), August 22-25, 2022
- 10. (2022) <u>Hart, J.A.,</u> McGlashan, C., **Wolfe, B.**, Greene, M.R. You know the situation is dangerous within 100 ms: Neural signatures of road hazard detection; *Poster presentation, Vision Sciences Society 2022*
- 11. (2022) <u>Guidi, S., Ghuman, C.,</u> Kosovicheva, A., **Wolfe, B.**, Effects of Blur on Duration Thresholds for Road Hazard Detection; *Poster presentation, Vision Sciences Society 2022*
- 12. (2022) <u>Haseeb, Z.</u>, **Wolfe, B.**, Kosovicheva, A. Spatial Heterogeneity in Localization Biases Predicts Crowding Performance; *Poster presentation, Vision Sciences Society 2022*
- 13. (2022) Kosovicheva, A., Wolfe, J.M., **Wolfe, B.**, The Moose Came Out of Nowhere: Low Prevalence Effects in Road Hazard Detection; *Talk presentation, Vision Sciences Society 2022*
- 14. (2021) Kosovicheva, A., Wolfe, J.M., **Wolfe, B.** Taking Prevalence Effects on the Road: Rare Hazards are Often Missed. *Poster Presentation, Psychonomic Society Annual Meeting*
- 15. (2021) <u>Kanda, S.</u> (advisors: Kosovicheva, A., Wolfe, J.M., **Wolfe, B.**) Prevalence effects on the road: rare hazards are often missed. *Presented at V-VSS 2021 (undergraduate just-in-time session)*
- 16. (2021) **Wolfe, B.A.**, Kosovichvea, A., Stent, S., Rosenholtz, R., Attentional Cueing in the World: Temporal and Spatiotemporal Cues for Road Hazards. *Presented at V-VSS 2021*.
- 17. (2020) **Wolfe, B.A.**, Rosenholtz, R., Understanding dynamic scenes: How driving can teach us about scene perception. Vision Sciences Society Annual Meeting. *Presented virtually at V-VSS, June 19-24, 2020, due to COVID-19.*
- (2020) Hernandez, C.I., Rahill, K., Pham, M., Manriquez, L., Louis, P., Figueroa, A., Medina, B., Wolfe, B., Sawyer, B.D., Prevalence effects are not driving hazard detection on the road. Vision Sciences Society Annual Meeting, May 15-20, 2020. Presented virtually at V-VSS, June 19-24, 2020, due to COVID-19.
- 19. (2019) **Wolfe, B.A.**, Rosenholtz, R., Why Uber Drivers Scare You: Detecting Road Hazards With Peripheral Vision. Vision Sciences Society Annual Meeting May 17-22, 2019.
- 20. (2018) **Wolfe, B.A.**, Rosenholtz, R., Was that a moose on the road? Gist-like perception of emerging driving hazards. Vision Sciences Society Annual Meeting, May 18-23, 2018.
- 21. (2017) **Wolfe, B.A.**, Fridman, L., Kosovicheva, A.A., Reimer, B. & Rosenholtz, R. Seeing the road in the blink of an eye rapid perception of the driver's visual environment. Vision Sciences Society Annual Meeting, May 19–24, 2017.

- 22. (2017) Rosenholtz, R., Wolfe, B.A., Sawyer, B., Kosovicheva, A.A. & Reimer, B. Perceptual and attentional factors in detection of driving-relevant visual events. Vision Sciences Society Annual Meeting, May 19–24, 2017.
- 23. (2016) Wolfe, B.A., Dobres, J., Kosovicheva, A.A., Rosenholtz, R., Reimer, B. Reduction in Legibility with Degradation in Older and Younger Observers. Vision Sciences Society Annual Meeting, May 13-18, 2016.
- 24. (2015) Wolfe, B.A., Whitney, D. Object-selective processing of remapped information, Vision Sciences Society Annual Meeting. May 15-20, 2015.
- 25. (2015) Kosovicheva, A. A., Wolfe, B.A., Cavanagh, P., Gorea, A., Whitney, D. Dynamic recalibration of perceived space across the visual hemifields. Vision Sciences Society Annual Meeting, May 15–20, 2015.
- 26. (2015) Wood, K., Wolfe, B. A., Kosovicheva, A. A., Whitney, D. Speeded breakthrough of faces in interocular suppression requires configural information. Vision Sciences Society Annual Meeting, May 15-20, 2015.
- 27. (2014) Wolfe, B.A., Whitney, D. Presaccadic Induction and Spatial Tuning of the Face Aftereffect. Vision Sciences Society Annual Meeting. May 16–21, 2014.
- 28. (2014) Wood, K., Wolfe, B. A., Kosovicheva, A. A., Leib, A. Y., Whitney, D. Foveal input is not required for ensemble coding of emotional faces. Vision Sciences Society Annual Meeting. May 16-21, 2014.
- 29. (2013) Wolfe, B. A., Kosovicheva, A. A., Leib, A. Y., Whitney, D. Beyond fixation: Ensemble coding and eye movements. Vision Sciences Society Annual Meeting. May 10-15, 2013.
- 30. (2012) Kosovicheva, A. A., Wolfe, B.A., Whitney, D. Effects of motion-induced mislocalizations on saccade landing position. Vision Sciences Society Annual Meeting. May 11–16, 2012.
- 31. (2012) Wolfe, B.A., Whitney, D. Presaccadic foveal priming diminishes crowding. Vision Sciences Society Annual Meeting, May 11-16, 2012.
- 32. (2011) Wolfe, B.A., Whitney, D. Egocentric but not allocentric perceptual distortions from saccadic adaptation. Vision Sciences Society Annual Meeting. May 6–11, 2011.
- 33. (2008) Wolfe, B.A., Rowe, C.K., Rushmore, R.J., Valero-Cabre, A. Spatial distribution and temporal dynamics of visuo-spatial attention capabilities in human subjects as revealed by transcranial magnetic stimulation (TMS) on parietal systems and associated networks. Twelfth International Conference on Cognitive and Neural Systems. May 14-17, 2008.

### **INVITED TALKS AND SEMINARS** (\* denotes delivered remotely due to COVID-19)

- 1. University of New Hampshire, Department of Psychology, December 14, 2022
- 2. York University, Centre for Vision Research, Toronto ON, September 23, 2022
- Autonomous Vehicles Workshop (AI-CRV Conference), May 30, 2022\*
- 4. Rotman Rounds, Rotman Research Institute at Baycrest, February 7, 2022\*
- 5. University of Toronto, Ebbinghaus Empire Talk Series, October 27, 2021\*
- 6. KITE, University Health Network, Toronto ON, June 22, 2021\*
- 7. Huawei Canada, Human-Machine Interaction Workshop, May 28, 2021\*
- 8. Huawei Canada, Human-Machine Interaction Group, March 24, 2021\*
- 9. Brandeis University, Department of Psychology, March 11, 2021\*
- 10. Human Factors Interest Group, University of Toronto, February 21, 2021\*
- 11. Boston University, Department of Biomedical Engineering, November 9, 2020\*

- 12. University of Toronto, Department of Mechanical and Industrial Engineering, November 3, 2020\*
- 13. University of Iowa, Department of Psychology, October 23, 2020\*
- 14. University of California at Berkeley, Department of Psychology, July 13, 2020\*
- 15. University of Indiana Bloomington, School of Optometry, March 31, 2020\*
- 16. University of Toronto Mississauga, Department of Psychology, January 21, 2020
- 17. Toyota Research Institute, Cambridge MA, May 13, 2019
- 18. New England College of Optometry, Boston MA, April 16, 2019
- 19. Schepens Eye Research Institute, Boston MA, August 29, 2018
- 20. Tufts University, Department of Psychology, January 25, 2018

#### **MENTORSHIP & RESEARCH SUPERVISION**

#### **Postdoctoral Fellows**

2022 -Dr Jiali Song 2023 -Dr Khushi Patel

### **Graduate Students**

2022 -Greer Gilles (external PhD project, co-supervised with A. Kosovicheva) 2023 -Jaweria Qaiser (external PhD project, co-supervised with A. Kosovicheva)

## **Undergraduate Students** (\* denotes honors thesis supervision)

University of Toronto Mississauga (2021-present)

Sara Alzate, Avery Chua, Ammara Faiyaz, Chandandeep Ghuman, Cristeidy Gonzalez, Silvia Guidi, Zainab Haseeb\*, Saad Khan, Simran Kanda, Zoey Khaled, Meghna Patil, Sanaullah Pirzada, Mia Romano, Dyllan Simpson, Aman Singh

Massachusetts Institute of Technology (2015-2020) Riley Ledezma, Martin Lopez

University of California at Berkeley (2010-2015) Claire Jeon, Omead Kohanteb, Katherine Wood\*

### **High School Students / Secondary School Students**

Massachusetts Institute of Technology Sohan Subhash, Yrvine Thelusma

### TEACHING EXPERIENCE

Department of Psychology, University of Toronto Mississauga

Human Factors (3<sup>rd</sup> year lecture course) Fall 2022 Average student evaluation: 4.4 (department mean, 3.9 / 5)

Winter 2022 Systems of Psychology (4<sup>th</sup> year seminar) Average student evaluation: 4.2 (department mean, 4.1 / 5)

Summer 2021 Cognitive Psychology (2<sup>nd</sup> year lecture course) Average student evaluation: 4.6 (department mean, 4.2 / 5)

### Graduate Student Instructor, UC Berkeley (Teaching Assistant)

Spring 2015 Mind, Brain and Behavior

Average student evaluation: 5.97 (department mean, 5.92 / 7)

Spring 2011 Sensation and Perception

Average student evaluation: 6.33 (department mean, 6.27 / 7)

Fall 2010 Drugs and the Brain

Average student evaluation: 6.09 (department mean, 6.32 / 7)

### **SERVICE**

Fall 2021 Organizer, UTM Psychology "Careers in Cognitive Psychology" Panel Series

2021 Departmental PTR Committee Member

2018 – Present Vision Sciences Society Demo Night Committee Member

2017 – 2020 Member, Ad-Hoc Working Group on NIH Clinical Trials Policy for Basic Science

#### **ADDITIONAL TRAINING**

2008 - 2010 Research Associate, Tong Lab

Department of Psychology, Vanderbilt University

Supervisor: Dr. Frank Tong

2005 – 2008 Research Assistant, Cerebral Dynamics Laboratory

Department of Anatomy and Neurobiology, Boston University Medical School

Advisors: Dr. R. Jarrett Rushmore and Dr. Antoni Valero-Cabré

#### **REVIEWING EXPERIENCE**

Journals: Attention, Perception and Psychophysics; Vision Research; Journal of Vision\*; Journal of

Experimental Psychology: General; Journal of Experimental Psychology: Human Perception and Performance; iPerception; Experimental Brain Research; Behavioral Research Methods; Translational Vision Science and Technology; Visual Cognition, Cognitive Science; Cognitive Processing, Experimental Psychology; Cognitive Research, Principles and Implications; Scientific Reports (Nature); PLOSone; Human Factors; Ergonomics; Applied Ergonomics; International Journal of Occupational Safety and Ergonomics; Traffic, Injury and Prevention; Accident, Analysis and Prevention; Transactions on Intelligent Transportation Systems

\*Exceptional Reviewer Award (2019, 2021)

Conferences: IEEE Visualization and Graphics Technical Committee (VGTC), Driving Assessment, IEEE

Information Visualization (InfoVis), NeurIPS/NIPS, AutomotiveUI

Agencies: US-Israel Binational Science Foundation

National Sciences and Engineering Research Council of Canada (NSERC)

#### **EDITORIAL EXPERIENCE**

Digital Associate Editor, Psychonomic Society 2021 -

### **COMMUNITY OUTREACH AND PRESENTATIONS**

2010 – 2015 Whitney Lab K-12 Outreach Program

2014 Vision Sciences Society Demo Night Presenter, "Strobowheel"

2012 Vision Sciences Society Demo Night Presenter, "An Aftereffect Based on Texture Element

Ratios"

# **PROFESSIONAL MEMBERSHIPS**

2022 **Human Factors and Ergonomics Society** 

2009 - Present Vision Sciences Society 2014 - Present **Psychonomics Society** 

#### REFERENCES

### Ruth Rosenholtz, Ph.D.

Principal Research Scientist Department of Brain and Cognitive Sciences Massachusetts Institute of Technology 77 Massachusetts Ave, 32-D426 Cambridge, MA, 02139 rruth@mit.edu

### David Whitney, Ph.D.

Professor, Department of Psychology University of California at Berkeley 2121 Berkeley Way University of California, Berkeley Berkeley, CA 94720-1650 dwhitney@berkeley.edu

## Ben D. Sawyer, Ph.D., MSIE

Associate Professor Department of Industrial Engineering and Management Systems University of Central Florida 4000 Central Florida Blvd. Orlando, FL 32817 sawyer@ucf.edu