

Michael A. Grubb

July 28, 2022

Department of Psychology

Trinity College

300 Summit St.

Hartford, CT 06106

email: michael.grubb@trincoll.edu

web: AttentionPerceptionDecision.com

EDUCATION

- 2013 Ph.D. Experimental Psychology, New York University
 - Cognition & Perception Doctoral Program
 - Dissertation Advisors: Marisa Carrasco and David J. Heeger
- 2012 M.A. Experimental Psychology, New York University
- 2007 M.A. Global Studies, Sophia University, Tokyo, Japan
- 2001 B.A. Psychology, The University of Oklahoma

PROFESSIONAL EXPERIENCE

- 2022 – Associate Professor, Department of Psychology, Trinity College, Hartford CT
- 2016 – 2022 Assistant Professor, Department of Psychology, Trinity College, Hartford CT
- 2021 – Adjunct Assistant Professor, Yale School of Medicine
- 2019 – 2021 Visiting Assistant Professor, Yale School of Medicine
 - Department of Comparative Medicine, Levy Decision Neuroscience Lab
- 2013 – 2016 Postdoctoral Research Associate, Center for Neural Science, New York University
 - Laboratory for Economics, Psychology, and Neuroscience of Decision Making
 - Mentor: Paul Glimcher
- 2014 (fall) Visiting Assistant Professor, Department of Neural Science, NYU Shanghai
- 2010 – 2012 Graduate Teaching Assistant, Department of Psychology, New York University
- 2006 – 2007 Academic Coordinator and Instructor, ELS International Academy, Tokyo
- 2005 – 2007 Instructor, Faculty of Medicine, University of Tokyo
- 2002 – 2005 Teacher, Japan International Education Center, Tokyo
- 2001 – 2002 Teacher, Sarasas International School, Bangkok

RESEARCH INTERESTS

Impact of reward history and learned associations on attentional control; Temporal dynamics of attention, perception, and decision making; Attention and decision making; Aging and atypical development
Methods: psychophysics, eye tracking, structural & functional brain imaging

AWARDS AND HONORS

- 2022 Faculty Early Career Development Award, *National Science Foundation*, \$469,840
 - CAREER: Reward learning, selection history, and attentional control (#2141860)
- 2020 Arthur H. Hughes Award for Teaching Achievement, Trinity College
 - Annual award which recognizes excellence in teaching by a junior faculty member

- 2019 Research Opportunity Award, *National Science Foundation*, \$105,008
- #1928539: ROA supplement to *Decision making under uncertainty across the lifespan: Cognitive, motivational and neural bases* (PI: Dr. Ifat Levy, Yale School of Medicine)
 - Role: Co-Investigator
- 2012 Predoctoral Fellowship, *Autism Speaks Scientific Research Grants*, \$57,200
- #7831: Spatial Attention in Autism Spectrum Disorder

PUBLICATIONS (* denotes undergraduate collaborator)

- Raio, C. M., Lu, B. B., **Grubb, M.**, Shields, G. S., Slavich, G. M., & Glimcher, P. (2022). Cumulative lifetime stressor exposure assessed by the STRAIN predicts economic ambiguity aversion. *Nature Communications*, 13(1), 1-11.
- Massa*, N. B., Deck*, J. & **Grubb, M. A.** (2021). Perceptual Fading of a Stabilized Cortical Image: Replication in the Undergraduate Classroom. *eNeuro*, 8(5), 1-8.
- Butler*, D. R. & **Grubb, M. A.** (2020). Sudden onsets reflexively drive spatial attention, but those that predict reward do more. *Journal of Vision*, 20(7):30, 1-10.
- Gannon*, E. T. & **Grubb, M. A.** (2020). How Filmmakers Guide The Eye: The Effect of Average Shot Length on Intersubject Attentional Synchrony. *Psychology of Aesthetics, Creativity, and the Arts*. Advance online publication. <https://doi.org/10.1037/aca0000315>.
- Grubb, M. A.**, Christensen*, G., & Albanese*, J. (2019). Investigating the role of exogenous cueing on selection history formation. *Psychonomic Bulletin & Review*, 26:1282–1288.
- Grubb, M. A.**, & Li*, Y. (2018). Assessing the role of accuracy-based feedback in value-driven attentional capture. *Attention, Perception, and Psychophysics*, 80: 822-828.
- Grubb, M. A.**, Tymula, A., Gilaie-Dotan, S., Glimcher, P., & Levy, I. (2016). Neuroanatomy Accounts for Age-Related Changes in Risk Preferences. *Nature Communications*, 7, 13822: 1-5.
- Grubb, M. A.**, White, A., Heeger, D., & Carrasco, M. (2015). Interactions between Voluntary and Involuntary Attention Modulate the Quality and Temporal Dynamics of Visual Processing. *Psychonomic Bulletin & Review*, 22(2): 437-444.
- Grubb, M. A.**, Behrmann, M., Egan, R., Minshew, N. J., Heeger, D. J., & Carrasco, M. (2013). Exogenous Spatial Attention: Evidence for Intact Functioning in Adults With Autism Spectrum Disorder. *Journal of Vision*, 13(14): 9, 1–13.
- Grubb, M. A.**, Behrmann, M., Egan, R., Minshew, N.J., Carrasco, M. & Heeger, D.J. (2013). Endogenous Spatial Attention: Evidence for Intact Functioning in Adults With Autism. *Autism Research*, 6: 108–118.

RECENT CONFERENCE PRESENTATIONS (* denotes undergraduate collaborator)

- **Grubb, M. A.**, White, A. L., Massa*, N., Crotty*, N. *Prediction errors transiently modulate visual processing resources*. Poster presented at the Vision Sciences Society Annual Meeting, May 15, 2022.
- Albanese*, J., Bernewitz*, E. & **Grubb, M. A.** *Learned but not distracting: low-value stimuli and value-driven attentional capture*. Poster presented at the Vision Sciences Society Annual Meeting, Virtual, May 25, 2021.
- **Grubb, M. A.**, Francis*, J., Leguizamon*, R., Miller*, J. & Wang*, K. *The Decisional Blink? Response criterion and the attentional blink paradigm*. Poster presented at the Vision Sciences Society Annual Meeting, Virtual, May 23, 2021.

- **Grubb, M. A.** & Butler*, D. R. *Sudden onsets reflexively drive spatial attention, but those that predict reward do more.* Accepted as a talk at the Vision Sciences Society Annual Meeting, St. Pete's Beach, FL, 2020, not presented due to Covid-19.
- **Grubb, M. A.**, Li, Y., Larisch, R. & Levy, I. *Prolonged attention to probability reduces probability weighting in risky choice.* Poster presented at the Society for NeuroEconomics Annual Meeting, Dublin, Ireland, October 4, 2019.
- **Grubb, M. A.** *On the Varieties of Visual Attention.* Talk presented at the Sloan Nomis Workshop on the Cognitive Foundations of Economic Behavior, Vitznau, Switzerland, July 5, 2019.
- **Grubb, M. A.**, Christensen*, G., & Albanese*, J. *Does a history of involuntary selection generate attentional biases?* Poster presented at the Vision Sciences Society Annual Meeting, St. Pete's Beach, FL, May 21, 2019.
- **Grubb, M. A.**, & Butler*, D. *Associative learning accelerates the temporal dynamics of covert exogenous spatial attention.* Poster presented at the Vision Sciences Society Annual Meeting, St. Pete's Beach, FL, May 23, 2018.
- **Grubb, M. A.**, & Li*, Y. *Performance-contingent reward training modulates reaction time variability, even in the absence of previously rewarded stimuli.* Poster presented at the Vision Sciences Society Annual Meeting, St. Pete's Beach, FL, May 21, 2017.
- **Grubb, M. A.**, Glimcher, P., & Levy, I. (2016). *Neuroanatomy accounts for age-related changes in risk preferences.* Talk presented at the Society for Neuroscience annual meeting, San Diego, CA.

SERVICE

- Faculty Research Committee, Trinity College, 2021-2024
- Curriculum Committee, Trinity College, 2018-2021
- Study Away Faculty Advisor (Paris), Trinity College, 2017-2019
- *ad hoc* peer reviewer for *Journal of Vision*, *Attention Perception & Psychophysics*, *Psychology & Neuroscience*, *British Journal of Psychology*, *Neuroimage*, *Cognition*, *Scientific Reports*, *eNeuro*, *Motivation and Emotion*, *eLife*, *Communications Biology*, *Social Cognitive and Affective Neuroscience*, *Journal of Experimental Psychology: Human Perception and Performance*
- NSF Reviewer, 2021
- Advisory group to the Vision Sciences Society Diversity and Inclusion Committee, 2021
- Co-organizer, Visibility