

Shannon M. Locke

Post-doctoral researcher

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Education

2019-: **Post-doc:** Laboratoire des Systèmes Perceptifs (Pascal Mamassian) ~ École Normale Supérieure

2014-19: **PhD:** Cognition & Perception (Michael S. Landy) ~ New York University

2014: **Research Assistant:** Psychology (David Alais, Alex Holcombe) ~ University of Sydney

2010-13: **Bachelor of Science:** Physiology, Psychology (Simon Carlile) ~ University of Sydney

Funding

2019-21 Post-Doctoral Fellowship, *Fondation Fyssen*

2014-19 Henry M. MacCracken Fellowship, *New York University*

2014-17 Frank Knox Memorial Fellowship (declined), *Harvard University*

2010-13 Access Scholarship, *University of Sydney*

2010-13 National Scholarship, *University of Sydney*

Distinctions

2018 Student Senators Council's Travel Grant, *New York University*

2016 Dean's Student Travel Grant, *GSAS, New York University*

2014 Engberg Fellowship, *Department of Psychology, New York University*

2013 University Medal, *University of Sydney*

2013 Colin Dunlop Prize in Physiology, *School of Medical Sciences, University of Sydney*

2012 Summer Vacation Scholarship, *School of Medical Sciences, University of Sydney*

2012 YE Knight Neuroscience Essay Prize, *School of Medical Sciences, University of Sydney*

2012 Top Student Prize in Perception (PSYC3013), *School of Psychology, University of Sydney*

2011 Summer Research Scholarship, *School of Medical Sciences, University of Sydney*

2008 Long Tan Leadership and Teamwork Award, *Australian Defence Force*

Publications

- 2020** Locke, S. M., Mamassian, P. & Landy, M. S. "Performance Monitoring for Sensorimotor Confidence: A Visuomotor Tracking Study." *Cognition*.
- 2020** Locke, S. M., Gafin-Cahn, E., Hosseinizadeh, N., Mamassian, P. & Landy, M. S. "Priors and Payoffs in Confidence Judgments." *Attention, Perception, & Psychophysics*: 82(6): 3158-3175.
- 2017** Locke, S. M. & Landy, M. S. "Temporal Causal Inference With Stochastic Audiovisual Sequences." *PLoS ONE*: 12(9), e0183776.
- 2016** Alais, D., Locke, S. M., Leung, J., & Van der Burg, E. "No Attentional Capture From Invisible Flicker." *Scientific Reports*: 6, 29296.
- 2016** Locke, S. M., Leung, J., & Carlile, S. "Sensitivity to Auditory Velocity Contrast." *Scientific Reports*: 6, 27725.
- 2014** Feinkohl, A., Locke, S. M., Leung, J., & Carlile, S. "The Effect of Velocity on Auditory Representational Momentum." *Journal of the Acoustical Society of America*, 136, EL20.

Invited Talks

- 2016** Locke, S. M. Spatiotemporal Factors in Audiovisual Rate-Discrimination. Invited talk presented to the Department of Psychology, University of Sydney, Australia.
- 2014** Locke, S. M., Feinkohl, A., Leung, J., & Carlile, S. The Auditory Representational Momentum Effect. Presented at *11th Australasian Auditory Neuroscience Workshop* in Adelaide, Australia.

Conferences

- 2018** Locke, S. M., Landy, M. S., & Mamassian, P. Sequential Effects in Confidence. Poster presented at *Vision Sciences Society Annual Meeting* in St. Pete Beach, FL.
- 2018** Gaffin-Cahn, E., Locke, S. M., Hosseinizadeh, N., Mamassian, P., & Landy, M. S. Assessing the Role of Rewards and Priors on Confidence Judgments. Talk presented at *Vision Sciences Society Annual Meeting* in St. Pete Beach, FL.
- 2017** Locke, S. M., Landy, M. S., Mamassian, P. & Simoncelli, E. P. The Temporal Dynamics of Meta-Cognition in a Continuous Visuomotor Task. Poster presented at *Annual Conference on Cognitive Computational Neuroscience* in New York, NY.
- 2017** Locke, S. M., Landy, M. S., Mamassian, P. & Simoncelli, E. P. Dynamic Visual Localization With Moving Dot Clouds. Poster presented at *Vision Sciences Society Annual Meeting* in St. Pete Beach, FL.
- 2016** Locke, S. M., & Landy, M. S. Spatiotemporal Factors in Audiovisual Rate-Discrimination. Poster presented at *Vision Sciences Society Annual Meeting* in St. Pete Beach, FL and at *Collaborative Research in Computational Neuroscience Conference* in Paris, France.
- 2015** Locke, S. M., Leung, J., & Carlile, S. Perceiving Velocity Changes in Auditory Motion. Poster presented at *Association for Research in Otolaryngology 38th Midwinter Meeting* in Baltimore, MD.
- 2015** Carlile, S., Leung, J., Locke, S. M., & Burgess, M. Hearing motion in motion. Talk presented at *Acoustical Society of America Annual Meeting* in Pittsburgh, PA.

2013 Locke, S. M., Feinkohl, A., Leung, J., & Carlile, S. The Auditory Representational Momentum Effect. Poster presented at *The 4th UWS Sensory Neuroscience Symposium* in Sydney, Australia and at *The Bosch Institute Young Investigators Symposium* in Sydney, Australia.

Teaching

2018 Instructor, Undergraduate level (Summer):- *Perception*

2017 Guest Lecturer, Graduate level (Fall):- *Psychophysics, Implementing Model Comparison*

2017 Teaching Assistant, Undergraduate level (Fall):- *Perception*

Mentoring and Leadership

Academic Supervision: Nadia Hosseini (RA, 6 months), Damaris Rothe (RA, 6 months)

2017-20 Mentor, 1000 Girls 1000 Futures Program, *New York Academy of Sciences*

2018 Officer, NYU CogCollective student organisation, *Graduate School of Arts & Science, NYU*

2018 Volunteer Academic Tutor for Grades 6 to 10, *Harlem StreetSquash*

2017-18 Volunteer Science Advocate, *BraiNY, SfN*

2013 Mentor, Faculty of Science Peer Program, *University of Sydney*

2013 Volunteer, Great Australian Byte Science Outreach Program, *University of Sydney*

2010 Social Events Coordinator, International House, *University of Sydney*

Misc

Reviewer for: Perception

Programming / Software Skills:

MATLAB (advanced):- Psychtoolbox, Eyelink

R (intermediate):- RStan

Python (basic):- PsychoPy

L^AT_EX(advanced):- Tikz, Pgfplots

Markdown (basic)

Current Organisations:

Vision Sciences Society, New York Academy of Sciences

PhD-Level Courses Completed: Perception, Visual Neuroscience, Cognitive Neuroscience, Neuroeconomics and Decision-making, MathTools for Cognitive Science and Neuroscience, Psychophysics, Bayesian Data Analysis, Neuroanatomy.