

Shannon M. Locke

Post-doctoral researcher

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Education

2019-22: 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 (financial & geographic disadvantage), *University of Sydney*

2010-13 National Scholarship, *University of Sydney*

Preprints

2021 Rahnev, D., et al. "Consensus goals for the field of visual metacognition." *PsyArXiv*: <https://psyarxiv.com/z8v5x>.

Publications

2021 Locke, S. M. & Robinson, O. J. "Affective bias through the lens of Signal Detection Theory." *Computational Psychiatry*: (in press).

2020 Locke, S. M., Mamassian, P. & Landy, M. S. "Performance Monitoring for Sensorimotor Confidence: A Visuomotor Tracking Study." *Cognition*, 205: 104396.

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.

Talk Presentations

- 2021** Locke, S. M., Mamassian, P., & Landy, M. S. Sensorimotor Confidence. Presented at the *Decision-Making in Voluntary Action Workshop* in London, UK.
- 2018** Gaffin-Cahn, E., Locke, S. M., Hosseinizadeh, N., Mamassian, P., & Landy, M. S. Assessing the Role of Rewards and Priors on Confidence Judgments. *Vision Sciences Society Annual Meeting* in St. Pete Beach, FL.
- 2016** Locke, S. M. & Landy, M. S. Spatiotemporal Factors in Audiovisual Rate-Discrimination. Department of Psychology, University of Sydney, Australia.
- 2015** Carlile, S., Leung, J., Locke, S. M., & Burgess, M. Hearing motion in motion. *Acoustical Society of America Annual Meeting* in Pittsburgh, PA.
- 2014** Locke, S. M., Feinkohl, A., Leung, J., & Carlile, S. The Auditory Representational Momentum Effect. *11th Australasian Auditory Neuroscience Workshop* in Adelaide, Australia.

Poster Presentations

- 2018** Locke, S. M., Landy, M. S., & Mamassian, P. Sequential Effects in Confidence. *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 Metacognition in a Continuous Visuomotor Task. *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. *Vision Sciences Society Annual Meeting* in St. Pete Beach, FL.
- 2016** Locke, S. M., & Landy, M. S. Spatiotemporal Factors in Audiovisual Rate-Discrimination. *Vision Sciences Society Annual Meeting* in St. Pete Beach, FL and *Collaborative Research in Computational Neuroscience Conference* in Paris, France.
- 2015** Locke, S. M., Leung, J., & Carlile, S. Perceiving Velocity Changes in Auditory Motion. *Association for Research in Otolaryngology 38th Midwinter Meeting* in Baltimore, MD.
- 2013** Locke, S. M., Feinkohl, A., Leung, J., & Carlile, S. The Auditory Representational Momentum Effect. *The 4th UWS Sensory Neuroscience Symposium* in Sydney, Australia and *The Bosch Institute Young Investigators Symposium* in Sydney, Australia.

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*

Teaching

2020 Workshop, Graduate level, ENS (Fall, online):- *Practical Modelling Skills Workshop*

2020 Guest Lecturer, Graduate level, NYU (Fall, online):- *Psychophysics: Practical Modelling Skills*

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

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

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

Mentoring and Leadership

PhD students: Marissa Evans (ongoing, NYU), Chiara Martolini (ongoing, IIT)

Masters students: Layla Ibrahim (ongoing, UCL), Constance Destais (ongoing, UCL)

Research interns: Nadia Hosseini (6 mo., NYU), Damaris Rothe (6 mo., NYU)

2017-21 Mentor, 1000 Girls 1000 Futures Program (high school), *New York Academy of Sciences*

2021 Organiser, hybrid Confidence Workshop to be held in June, 2021, *ENS*

2021 Interviewee, Women in Science Instagram Campaign, *Singapore Girl-Up, UN Foundation*

2020 Organiser, Confidence Journal Club, *LSP, ENS*

2017-18 Volunteer science advocate (young children, general public), *BraiNY, Society for Neuroscience*

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

2018 Volunteer academic tutor (middle/high school), *Harlem StreetSquash*

2013 Mentor, Faculty of Science Peer Program (first year undergrads), *Uni. of Sydney*

2013 Volunteer, Great Australian Byte Science Outreach Program (high school), *Uni. of Sydney*

2010 Social Events Coordinator, International House (university residence), *Uni. of Sydney*

Misc

Programming / Software Skills:

MATLAB (advanced):- Psychtoolbox, Eyelink

R (intermediate):- RStan

Python (basic):- PsychoPy

L^AT_EX(advanced):- Tikz, Pgfplots

Reviewer for:

Psychonomic Bulletin & Review, Perception

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.