

EDUCATION

2019-22: Postdoc, École Normale Supérieure, Laboratoire des Systèmes Perceptifs ~ Pascal Mamassian
2014-19: PhD, New York University, Cognition & Perception Program ~ Michael S. Landy
2010-13: Bachelor of Science, University of Sydney, physiology & psychology

RESEARCH

Lab visits/internships:

Pascal Mamassian ~ École Normale Supérieure, (3 mo., 2017)
Alex Holcombe ~ University of Sydney (8 mo., 2014)
David Alais ~ University of Sydney (8 mo., 2014)
Simon Carlile ~ University of Sydney (2.5 yr., 2011-13)

External Collaborators:

Oliver J. Robinson (UCL)
Monica Gori (IIT)

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*, 5(1): 4-20.
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.

TALKS

- 2021 Locke, S. M., Mamassian, P., & Landy, M. S. Sensorimotor Confidence. Presented at the *UCL 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. Invited talk at the 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.

POSTERS

- 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 Meta-Cognition 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 Sentators 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

2021 Teaching Assistant*, Graduate level, UCL/PSL:- *Summer School: Consciousness & Metacognition*

2020 Instructor*, Graduate level, ENS:- *Practical Modelling Skills Workshop*

2020 Guest Lecturer*, Graduate level, NYU (Fall):- *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, NYU (Fall):- *Perception*

*online

MENTORING & OUTREACH

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

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

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

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

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

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

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)

SERVICE

2021 Organiser, New Ideas in Confidence and Uncertainty Workshop (online), *LSP, ENS*

2020-21 Organiser, Confidence Journal Club, *LSP, ENS*

2020-21 Manager, LSP lab Twitter Account, *LSP, ENS*

2017-18 Organiser, Beer & Co.(de) peer-programming events, *Psychology Department, NYU*

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

2010 Officer, social events at International House (university residence), *University of Sydney*

Reviewer for: *Psychonomic Bulletin & Review, Perception*

Current Organisations: *Vision Sciences Society, New York Academy of Sciences*

TECHNOLOGICAL SKILLS**Languages:**

MATLAB

R

Python

L^AT_EX

... Packages:

:- Psychtoolbox, Eyelink

:- RStan, Markdown

:- PsychoPy

:- Tikz, Pgfplots, Beamer

Level: *advanced, intermediate, basic.*