kyleDunovan

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Training

University of Pittsburgh — 2011-
PhD Candidate, Cognitive Neuroscience
Advisor: Dr. Timothy Verstynen

University of Nebraska at Omaha — 2009-2011
B.S., Neuroscience

Western Nebraska Community College — 2006-2009
General Studies

Publications

Dunovan, K. and Wheeler, M.E. *(In Review*). The before and after pictures of expectation: pre and post-sensory bias in inferior temporal cortex.

Dunovan, K. and Verstynen, T. (2016). Believer-Skeptic meets Actor-Critic: Rethinking the role of basal ganglia pathways during decision-making and reinforcement learning. *Frontiers in Neuroscience.* 10:106. doi: 10.3389/fnins.2016.00106 [pdf]

Dunovan, K., Lynch, B., Molesworth, T., & Verstynen, T. (2015). Competing basal ganglia pathways determine the difference between stopping and deciding not to go. *eLife, 4, 1-24.* doi: 10.7554/eLife.08723 [pdf]

Dunovan, K., Tremel, J.J., & Wheeler, M.E. (2014). Prior probability and feature predictability interactively bias perceptual decisions. *Neuropsychologia*, 61, 210-221. [pdf]

Posters

Dunovan, K. E., Molesworth, T., Verstynen, T., The difference between stopping and deciding not to go: behavioral, imaging and modeling evidence at Society for Neuroscience 2014. Program No . 633.25□/ KK12. 2014 Neuroscience Meeting Planner. Washington D.C., MD: Society for Neuroscience, 2014.

Wheeler, M.E., Dunovan, K. E., and Tremel, J. T., Prior expectations bias hemodynamic activity before and during perceptual decisions: evidence from diffusion modeling and fMRI at Society for Neuroscience 2014. Program No. 084.08/NN9. 2014 Neuroscience Meeting Planner. Washington D.C., MD: Society for Neuroscience, 2014.

Dunovan, K., Tremel, J. T. and Wheeler, M. E. Transient prior probabilities affect choice bias during temporally extended perceptual decision-making at Society for Neuroscience 2012. Program No. 494.02/CCC19. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012.

Research Tools

Methods

Computational Models of RL & Decision-Making
Attractor and Neural Network Models of Basal Ganglia
Functional Magnetic Resonance Imaging (fMRI)
Behavioral Data Analysis & Psychophysics

Programming Languages

Python (Fluent)
Matlab (Mid-Level)
Shell (Mid-Level)

Additional Training

Multimodal Neuroimaging Training Program (MNTP, 2011)

Mentoring

Necati Alp Muyesser, Undergraduate (CMU) Cognitive Science/Computer Science	2016-
Jeremy Huang, Undergraduate (CMU) Computer Science	2016-
Brian Krainer, Undergraduate (CMU) Cognitive Science/Computer Science	2014-2016
Ashley Senders, Undergraduate (Pitt) Psychology/Neuroscience	2012-2013

Teaching

TA, MNTP DSI module	Summer 2015
TA, MNTP DSI module	Summer 2014
Instructor, Cognitive Psychology Lab	Spring 2014
TA, Biopsychology	Fall 2013
TA, Sensation and Perception	Fall 2013
TA, MNTP fMRI module	Summer 2013
TA, MNTP fMRI module	Summer 2012
TA, Introduction to Psychology	Spring 2012
TA, Research Methods	Fall 2011

Honors & Awards

Graduate Student Representative	2011-2012
Psi Chi President	2010-2011
Psi Chi Honors Society	2009-2011

Dean’s List status	2009–2011
Chancellor’s List status	Spring 2010