

Debbie Yee

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Education

- 2013- Ph.D. Candidate in Psychological & Brain Sciences,
Washington University in St. Louis
Major Advisor: Prof. Todd Braver, Ph.D.
- 2013-2015 M.A. in Psychological & Brain Sciences, Washington University in St. Louis
Major Advisor: Prof. Todd Braver, Ph.D.
- 2007-2011 B.S. in Brain and Cognitive Sciences, Massachusetts Institute of Technology

Honors and Awards

- 2017 Reinforcement Learning & Decision Making Student Travel Fellowship
- 2017 Outstanding Teaching Assistant Award, Psychological & Brain Sciences, WashU
- 2017 Summer School In Social Neuroscience and Neuroeconomics Fellow
- 2017-2019 NIH National Research Service Award (NRSA) Pre-Doctoral Fellowship
- 2016 NIH Aging and Development Training Fellowship (T32)
- 2016 Kavli Summer Institute for Cognitive Neuroscience Fellowship
- 2015 Reinforcement Learning & Decision-Making Student Travel Fellowship
- 2014, 2015 National Science Foundation Graduate Research Fellowship, *Honorable Mention*
- 2014-2016 Cognitive, Computational and Systems Neuroscience Training Fellowship (T32)
- 2010 MIT Undergraduate Research Opportunities Program Direct Funding
- 2008, 2009 MIT Sponsored Research

Research Grants

NIA/NIH Yee (PI) 6/1/2017–5/31/2018

Interactions of Motivational Incentives and Cognitive Control in Older Adult Decision-Making
Pilot project examining the role of motivation and cognitive control in mediating changes in the
psychological and neural mechanisms of older adult decision-making.

Role: Subaward PI (on Samanez-Larkin R24-AG054355)

Publications (Peer-Reviewed)

Yee, DM., Krug, MK., Allen, AZ., Braver, TS. (2016). Monetary and Liquid Incentives
Combine to Motivate Cognitive Task Performance. *Frontiers in Psychology*. 6:2037.

Solway, A., Diuk, C., Cordova, N., **Yee, D.**, Barto, A., Niv, Y., Botvinick, M. M. (2014).
Optimal Behavioral Hierarchy. *PLoS Computational Biology*. 10(8)

Blackburne, L.K., Eddy, M., Kalra, P., **Yee, D.**, Sinha, P., Gabrieli, J.D.E. (2014). Neural Correlates of Letter Reversal in Children and Adults. *PLoS ONE*. 9(5)

Talks and Presentations

Yee, DM., Braver, TS. Reinforcement and Valence Effects on Incentive Integration and Motivated Cognitive Control. *Reinforcement Learning and Decision Making*. (Ann Arbor, MI, June 11-14)

Yee, DM., Adams, S., Weiss, J., Braver, TS. Motivation-Cognition Interactions in Older and Younger Adults. *Association for Psychological Science*. (Boston, MA, May 25-27, 2017)

Yee, DM., Adams, S., Weiss, J., Braver, TS. Motivation-Cognition Interactions in Older and Younger Adults. *The Society for Affective Science*. (Boston, MA, April 27, 2017)

Yee, D., Braver, T. Monetary and Liquid Incentives Combine to Modulate Cognitive Task Performance. *56th Annual Meeting of The Psychonomic Society*. (Chicago, IL, November 21, 2015)

Yee, D., Braver, T. Monetary and Liquid Incentives Combine to Modulate Cognitive Task Performance. *Society for Neuroeconomics Annual Meeting*. (Miami, FL, September 25, 2015)

Oksanen, K., **Yee, D.**, Koller, J., Black, K., Braver, T. Applying simultaneous PET/MR to Explore Relationships Between Task-Evoked BOLD Signals and Dopamine. *Organization of the Human Brain Mapping Meeting*. (Honolulu, HI, June 15, 2015).

Botvinick, M. M., Diuk, C., **Yee, D.**, Cheong, J., Weinstein, A., Niv, Y. & Barto. A. A general form for state-space representations in frontal and temporal cortex. *44th Annual Meeting of the Society for Neuroscience*. (Washington D.C., November 18, 2014).

Solway, A., Diuk, C., Cordova, N., **Yee, D.**, Barto, A., Niv, Y., Botvinick, M. Optimal Task Decomposition. *Reinforcement Learning and Decision Making Meeting*, (Princeton, NJ, October 25, 2013).

Diuk, C., **Yee, D.**, Ribas-Fernandes, J, Cordova, N., Schapiro A., Niv, Y., Botvinick., M. Divide and Conquer: Task Decomposition in Humans. *42nd Annual Meeting of the Society for Neuroscience*, (New Orleans, LA, October 16, 2012).

Blackburne, L.K., Eddy, M., Kalra, P., **Yee, D.**, Del Tufo, S., Sinha, P., Gabrieli, J.D.E. Neural Correlates of Letter Reversal in Children and Adults. *19th Annual Cognitive Neuroscience Society Meeting*, (Chicago, IL, April 2, 2012).

Blackburne, L.K., Palti, D., Perea, M., Kim, J., Huang, C., **Yee, D.**, Gabrieli, J.D.E. Attention and Reading Skill Modulate Selectivity of the Left Occipitotemporal Region. *Organization of Human Brain Mapping Meeting*, (Barcelona, Spain, June 6, 2010).

Blackburne, L.K., Palta, D., Perea, M., Kim, J., Huang, C., **Yee, D.**, Gabrieli, J.D.E. Functional Connectivity of Left Fusiform to Phonological Processing Regions Increases with Reading Skill. *39th Annual Meeting of the Society for Neuroscience*, (Chicago, IL, October 20, 2009).

Invited Articles

Weston, S.J. and **Yee, D.** Why You Should Become a UseR: A Brief Introduction to R. *The Observer* (29)3, Association for Psychological Science. (March 2017).

Teaching Experience

- 2014-2017 Co-Instructor, Annual Introductory & Advanced R workshops
Developed programming for and co-taught two-day workshop to introduce basics of R-Statistical programming language to students, postdoctoral fellows, and faculty in the Psychological and Brain Sciences Department. Additionally presented monthly 1-hour workshops to Psych department on relevant packages and tools, including R-markdown, psych, ggplot2, and dplyr.
Workshop materials can be found here: <https://debyeeneuro.com/r-tutorials/>
- 2016 Fall Teaching Assistant, Psych 5066: Graduate Quantitative Methods I
Guest Lecturer, Graduate Quantitative Methods I
- 2017 Spring Teaching Assistant, Psych 5067: Graduate Quantitative Methods II
Guest Lecturer, Graduate Quantitative Methods II
NOTE: Quantitative Methods I and II are the requisite graduate level statistics courses for first year Psychology & Brain Sciences PhD students

Undergraduate Mentoring

- 2014-2015 Harold Lee, *Washington University in St. Louis*
- 2015-2016 Jessica Weiss, *Washington University in St. Louis*
- 2015-2016 Carolyn Dean Wolf, *Washington University in St. Louis*
- 2015-2016 Rachel Lilenbaum, *Washington University in St. Louis*
- 2015- Katie Shapiro, *Washington University in St. Louis*
- 2016- Marisa Gong, *Washington University in St. Louis*
- 2016- Aaditya Manirajan, *Washington University in St. Louis*

Pre-Doctoral Research Experiences

- 2011-2013 Research Specialist, Princeton University
PI: Matthew Botvinick M.D., Ph.D.
- 2009-2010 Research Assistant, Massachusetts Institute of Technology
PI: John Gabrieli, Ph.D.
- 2008 Research Assistant, Massachusetts Institute of Technology
PI: Edward Boyden, Ph.D.

Professional Memberships

Association for Psychological Science

Association for Women in Science, *St. Louis Chapter Co-President*

Psychonomics

Society for Affective Science

Society for Neuroeconomics

Society for Neuroscience

Additional Training

2016 Computational Psychiatry Course, *Translational Neuromodeling Unit, Zurich, CH*

Outreach & Community Service

Cognitive, Computational Systems Neuroscience, *Steering Committee* (2015-)

Psychology Grad Student Association, *Diversity Committee* (2014-2016)

Association for Women in Science – St. Louis Chapter, *President* (2014-)