

Erin Kendall Braun, PhD

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Education

2016 – 2018	PhD in Psychology; Columbia University “Brain Mechanisms of Adaptive Memory: Neuromodulation and Behavior” Advisor: Daphna Shohamy, PhD
2014 – 2016	MPhil in Psychology; Columbia University
2012 – 2014	MA in Psychology; Columbia University
2007 – 2009	BA in Psychology; Columbia University, <i>summa cum laude</i>
2000 – 2004	BA in English; University of Wisconsin – Madison, Honors

Awards

2018	Columbia University Psychology Department Travel Award
2016	Edward E. Smith Memorial Award in Cognitive Neuroscience
2015	SRNDNA Conference Travel Award
2014	NSF Graduate Research Fellowship
2014	Summer Institute in Cognitive Neuroscience Fellowship
2013	NSF Graduate Research Fellowship – Honorable Mention
2013	University of Michigan fMRI Training Course Fellowship
2013	Columbia University Psychology Department Travel Award
2009	Columbia University Honor Society of General Studies
2008 – 2009	Clayton A. Blaylock Memorial Scholarship
2007 – 2008	Columbia Student Incentive Scholarship
2007 – 2009	Columbia University Dean’s List

Publications

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (in prep). Differential mechanisms for the enhancing effects of d-amphetamine on associative memory.

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (in prep). D-amphetamine enhances memory for learned associations but not integration.

Figner, B., Foerde, K., **Braun, E.K.**, Weber, E., & Shohamy, D. (in prep). Dopaminergic medication decreases sensitivity to losses in risky decision making.

Braun, E.K., Wimmer, G.E., & Shohamy, D. (2018). Retroactive and graded prioritization of memory by reward. *Nature Communications*, 9(1), 4886.

Foerde, K., Figner, B., **Braun, E.K.**, Weber, E., & Shohamy, D. (2016). Dopamine modulation of intertemporal decision-making: Evidence from Parkinson's Disease. *Journal of Cognitive Neuroscience*, 28(5), 657-667.

Foerde, K., **Braun, E.K.**, Higgins, E.T., & Shohamy, D. (2015). Motivational modes and learning in Parkinson's disease. *Social Cognitive and Affective Neuroscience*, 10(8), 1066-1073.

Wimmer, G.E., **Braun, E.K.**, Daw, N.D., & Shohamy, D. (2014). Episodic memory encoding interferes with reward learning and decreases striatal prediction errors. *Journal of Neuroscience*, 34(45), 14901-14912.

Schmidt, L., **Braun, E.K.**, Wager, T.D.*, & Shohamy, D.* (2014). Mind matters: Placebo enhances reward learning in Parkinson's disease. *Nature Neuroscience*, 17(12), 1793-1797.

Foerde, K., **Braun, E.K.**, & Shohamy, D. (2013). A trade-off between feedback-based learning and episodic memory for feedback events: Evidence from Parkinson's disease. *Neurodegenerative Diseases*, 11(2), 93-101.

Presentations

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (2018). Dopaminergic enhancement of associative memory in healthy humans. Nanosymposium talk: Society for Neuroscience.

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (2018). Dopaminergic enhancement of associative memory in healthy humans. Data Blitz talk: Manhattan Area Memory Meeting.

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (2018). Dopaminergic enhancement of associative memory in healthy humans. Data Blitz talk: Context and Episodic Memory Symposium.

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (2018). Dopaminergic modulation of associative memory in healthy humans. Poster: Cognitive Neuroscience Society.

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (2018). Dopaminergic modulation of associative memory in healthy humans. Talk: Columbia University Psychology Department Seminar.

Braun, E.K., Wimmer, G.E., & Shohamy, D. (2017). Retroactive modulation of memory by reward during goal-directed exploration. Talk: Columbia University Psychology Department Seminar.

Braun, E.K., Duncan, K.D., Girgis, R., Wood, S., Sharp, M., Van Geen, C., Abi-Dargham, A. & Shohamy, D. (2016). Retroactive and graded modulation of memory by reward. Poster: Society for Neuroscience.

Wimmer, G.E., **Braun, E.K.**, Daw, N.D., & Shohamy, D. (2016). Hippocampal-striatal connectivity in support of memory and decision making. Talk: ICOM.

Wimmer, G.E., **Braun, E.K.**, Daw, N.D., & Shohamy, D. (2016). Negative and positive interactions between reward learning and episodic memory. Talk: ICOM.

Braun, E.K., Wimmer, G.E., Patil, A., Vail, B., & Shohamy, D. (2015). Both rewards and losses retroactively enhance memory for preceding neutral events. Poster: Society for Neuroscience.

Braun, E.K., Wimmer, G.E., Patil, A., Vail, B., & Shohamy, D. (2015). Both rewards and losses retroactively enhance memory for preceding neutral events. Poster: Society for Neuroscience.

Braun, E.K., Wimmer, G.E., Patil, A., Vail, B., & Shohamy, D. (2014). Retroactive modulation of memory by reward. Poster: Society for Neuroscience.

Braun, E.K., Wimmer, G.E., Patil, A., Vail, B., & Shohamy, D. (2014). Retroactive modulation of memory by reward. Poster: Cognitive Neuroscience Society.

Wimmer, G.E., **Braun, E.K.**, Daw, N.D., & Shohamy, D. (2013). Episodic memory interferes with reward learning and decreases prediction errors. Poster: Society for Neuroscience.

Wimmer, G.E., **Braun, E.K.**, Daw, N.D., & Shohamy, D. (2013). Episodic memory interferes with reward learning and decreases prediction errors. Poster: Reward Learning and Decision Making.

Wimmer, G.E., Foerde, K., **Braun, E.K.**, & Shohamy, D. (2013). Decision bias and dopamine: Value generalization is decreased in aging and increased in Parkinson's patients on dopaminergic medication. Poster: Society for Neuroeconomics.

Braun, E.K., Wimmer, G.E., & Shohamy, D. (2013). Retroactive enhancement of memory by reward. Data Blitz talk: Manhattan Area Memory Meeting.

Wimmer, G.E., **Braun, E.K.**, Daw, N.D., & Shohamy, D. (2013). Episodic memory formation influences reward learning and prediction error signaling. Poster: Society for Human Brain Mapping.

Braun, E.K., Foerde, K., Figner, B., Weber, E., & Shohamy, D. (2012). Dopaminergic contributions to risk taking and temporal discounting: Evidence from Parkinson's disease. Poster: Society for Neuroscience.

Schmidt, L., **Braun, E.K.**, Johnston, N.E., Wager, T.D., & Shohamy, D. (2012). Mind matters: Placebo enhances reward learning in Parkinson's disease. Poster: Society for Neuroscience.

Foerde, K., **Braun, E.K.**, & Shohamy, D. (2012). A trade-off between feedback-based learning and episodic memory for feedback events: Evidence from Parkinson's disease. Nanosymposium talk: Society for Neuroscience.

Foerde, K., Figner, B., **Braun, E.K.**, Weber, E., & Shohamy, D. (2012). The role of striatal dopamine in risk-taking and temporal discounting: Evidence from Parkinson's disease. Poster: Society for Neuroeconomics.

Braun, E.K., Foerde, K., Figner, B., Weber, E., & Shohamy, D. (2012). Risk taking and temporal discounting in Parkinson's disease. Poster: Cognitive Neuroscience Society.

Wimmer, G.E., **Braun, E.K.**, & Shohamy, D. (2012). Neural and behavioral predictors of subsequent memory during reward learning. Nanosymposium talk: Cognitive Neuroscience Society.

Foerde, K., **Braun, E.K.**, & Shohamy, D. (2012). Dopamine modulation of learning with immediate vs. delayed feedback: Evidence from Parkinson's disease. Poster: Cognitive Neuroscience Society.

Braun, E.K., Foerde, K., & Shohamy, D. (2011). Effects of healthy aging on learning from immediate versus delayed feedback. Poster: Society for Neuroscience.

Wimmer, G.E., **Braun, E.K.**, & Shohamy, D. (2011). Effects of reward on memory and choice. Poster: Society for Neuroscience.

Wimmer, G.E., **Braun, E.K.**, & Shohamy, D. (2011). Effects of reward on memory and choice. Poster: Society for Neuroeconomics.

Wimmer, G.E., Foerde, K., **Braun, E.K.**, & Shohamy, D. (2011). Value transfer in sensory preconditioning in Parkinson's disease and healthy aging. Poster: Cognitive Neuroscience Society.

Braun, E.K., Foerde, K., Clement, N., Johnson, K., & Shohamy, D. (2010). The effects of healthy aging on feedback-based learning and generalization. Poster: Society for Neuroscience.

Foerde, K., **Braun, E.K.**, Clement, N., & Shohamy, D. (2010). Dopamine modulation of learning with immediate vs. delayed feedback: Evidence from healthy aging and Parkinson's disease. Poster: Society for Neuroscience.

Clement, N., Foerde, K., **Braun, E.K.**, & Shohamy, D. (2010). Dopaminergic medication impacts learning and generalization in Parkinson's disease. Poster: Society for Neuroscience.

Kirkham, N., Shohamy, D., & **Braun, E.K.** (2010). Feedback-based learning in young children. Talk: British Psychology Society Developmental Psychology Section Conference.

Braun, E.K., Foerde, K., Johnson, K., Clement, N., & Shohamy, D. (2009). Feedback-based learning and generalization in younger and older adults. Poster: Cognitive Neuroscience Society.

Foerde, K., **Braun, E.K.**, Clement, N., & Shohamy, D. (2009). Dopamine modulation of learning with immediate vs. delayed feedback: evidence from Parkinson's disease. Poster: Cognitive Neuroscience Society.

Clement, N., Foerde, K., **Braun, E.K.**, & Shohamy, D. (2009). The role of the striatum in habit learning: Effects of repetition on learning in Parkinson disease. Poster: Cognitive Neuroscience Society.

Professional Activities

October 2018	Society for Neuroscience (San Diego, California) Co-Chair: Nanosymposium – Human Cognition and Behavior: Human Long-Term Memory: Encoding and Retrieval
October 2018	Columbia Hippocampus Club Zuckerman Mind Brain & Behavior Institute Founding Co-Organizer
June 2017	Manhattan Area Memory Meeting (New York University) Discussant: Symposium – As Good As It Gets: Memory? What is it good for?"
Summer 2015	Manhattan Area Memory Meeting (Princeton University) Co-Organizer
Fall 2012	Rewards, Habits, and Learning: Towards an Integrative View of Fronto-Striatal Function Symposium Organizer

Mentorship

2015 – 2019	Camilla van Geen (honors student; graduate student, University of Pennsylvania)
2016 – 2019	Sadie Bennett
2016 – 2018	Kimberly Sanchez
2013 – 2016	Blair Vail (honors student)
2012	Adam Litt

2012 – 2013

Anuya Patil (graduate student, University of Toronto)

Teaching Experience

Spring 2013	TA: Behavioral Neuroscience (Dr. Kathleen Taylor) Guest Lecture: "Memory Systems"
Spring 2014	TA: Intro Statistics for Behavioral Scientists (Dr. Norma Graham) Teacher: Statistics Lab Guest Lecture: "Introduction to Stata"
Spring 2015	TA: Mind, Brain & Behavior (Dr. Daphna Shohamy) Guest Lecture: "Memory and the Medial Temporal Lobe"
Summer 2015	Columbia Summer Teaching Program: "Science of Psychology" Lectures: Pharmacology, Memory & Attention; Personality, Intelligence Teacher: Lab Section
Spring 2016	TA: Intro Statistics for Behavioral Scientists (Dr. Greg Jensen) Teacher: Statistics Lab
Summer 2016	Columbia Summer Teaching Program: "Science of Psychology" Lectures: Pharmacology, Memory & Attention; Sleep, Intelligence Teacher: Lab Section
Spring 2017	TA: Thinking & Decision Making (Dr. Katherine Fox-Glassman) Guest Lecture: "Cognitive Neuroscience of Decision Making"
Summer 2017	Columbia Summer Teaching Program: "Science of Psychology" Lectures: Pharmacology, Memory & Attention; Sleep, Intelligence Teacher: Lab Section
Fall 2017	TA: Cognition: Memory & Stress (Dr. Janet Metcalfe) Guest Lecture: "Cognitive Neuroscience & Memory"
Summer 2018	Columbia Summer Teaching Program: "Science of Psychology" Lead Teacher Lectures: Sensation & Perception; Memory & Attention; Psychopathy Teacher: Lab Section

Research Experience

2018 Postdoctoral Scientist, Dr. Daphna Shohamy, Columbia University
2009 – 2012 Lab Manager, Dr. Daphna Shohamy, Columbia University
2008 Research Assistant, Dr. E. Tory Higgins, Columbia University

Professional Memberships

Society for Neuroscience, Cognitive Neuroscience Society