

## Daphna Shohamy, PhD

Department of Psychology  
Columbia University, New York  
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### POSITIONS

2013-present Associate Professor, Columbia University, Psychology  
2013-present Associate Professor, Columbia University, Zuckerman Mind, Brain, Behavior Institute  
2007-2013 Assistant Professor, Columbia University, Psychology

### EDUCATION & TRAINING

2004-2007 Postdoctoral Research Fellow, Department of Psychology, Stanford University  
1997-2003 Ph.D., Rutgers University, Center for Neuroscience; Dissertation: *The Role of the Basal Ganglia in Learning and Memory: Evidence from Parkinson's Disease*; Advisor: Mark A. Gluck  
1992-1996 B.A., Tel-Aviv University; Double major in Psychology and Humanities

### FELLOWSHIPS AND AWARDS

2016 McKnight Foundation, Memory and Cognitive Disorders Award  
2014 Young Investigator Award, Cognitive Neuroscience Society  
2013 Young Investigator Award, Society for Neuroeconomics  
2012 Lenfest Distinguished Faculty Award, Columbia University  
2011 Spence Award for Transformative Early Career Contributions, Association for Psychological Science  
2010 National Science Foundation Career Development Award  
2008 Young Investigator Award, National Alliance for Research on Schizophrenia and Depression  
2004 Postdoctoral Individual National Research Service Award; National Institute of Mental Health  
2003 Dean's Dissertation Award for Best Dissertation, Rutgers University  
1996;1997 Lehrman Fellowship for Academic Excellence

### RESEARCH SUPPORT

#### Current

2014-2019 CRCNS: Computational and Neural Mechanisms of Memory-Guided Decisions  
NIH/NIDA – R01, Co-PI (with Daw)  
2016-2019 How Episodic Memory Guides Decisions: Neural Mechanisms and Implications for Memory Loss  
McKnight Foundation Memory and Cognitive Disorders Award, PI  
2015-2019 Neural Mechanisms of Food Choice in Anorexia Nervosa  
NIH/NIMH-R01, co-PI (with Steinglass)  
2016-2017 Understanding The Effects of Aging on Curiosity and Learning: Neural and Cognitive Mechanisms, PI  
Columbia Aging Center Faculty Research Fellowship  
2017-2020 Understanding How Curiosity Drives Learning  
Templeton Science of Virtue Award, Templeton Foundation, PI of multi-site center project  
2017-2020 Mechanisms of Decision-making in Anorexia Nervosa: A Computational Psychiatry Approach  
The Klarman Foundation Eating Disorders Research Grant

#### Prior support

2015-2017 A Role for Dopamine in Prospection  
Templeton Science of Prospection Award, Templeton Foundation, co-PI (with Foerde)  
2015-2016 Long-term Cognitive and Motor Consequences of the Dopamine-deplete State in Parkinson's Patients  
Parkinson's Disease Foundation Pilot Award, PI  
2011-2015 Goals vs. Habits in the Human Brain: Cognitive and Computational Mechanisms  
NIH/NINDS – R01, PI  
2010-2015 Integrating Neuroimaging and Patient Studies of Learning and Decision Making

2013-2015	NSF Career Development Award, PI The Silvio O. Conte Center for Dopamine Dysfunction in Schizophrenia Project 2: Functional Correlates of Cortical and Subcortical Dopamine Dysregulation in Schizophrenia NIH/NIMH, Project PI (Center PI: Anissa Abi-Dargham)
2009-2014	Learning to Avoid Pain: Computational Mechanisms and Application to Methamphetamines NIH/NIDA, Co-I and PI of Subcontract (PI: Wager)
2009-2013	Investigating Placebo Effects in Parkinson's Disease with Functional MRI Michael J. Fox Foundation, Co-PI (w Wager)
2009-2011	Using fMRI to Measure Negative Symptoms in Schizophrenia NIH/NIMH, Co-I (PI: Smith)
2009-2010	Neural Systems of Learning and Memory in Addiction NIH/NIDA, PI
2008-2010	The Cognitive Neuroscience of Learning and Motivation in Schizophrenia: Combining fMRI and Patient Studies; NARSAD Young Investigator Award
2007-2011	Neurobiological Mechanisms Supporting Incremental and Episodic Learning NIH/NIMH, Co-I (PI: Wagner)
2004-2007	Neural Interactions in Incremental and Episodic Memory NIH/NIMH NRSA, PI
2004-2008	Feedback Learning and L-Dopa in Parkinson's Disease NIH/NIMH, Co-I (PI: Gluck)
2003-2006	Dissociating Medial Temporal Lobe and Basal Ganglia Contributions to Category Learning NSF, Co-I (PIs: Gluck, Poldrack)
2000-2003	Behavioral and Computational Studies of Dopamine Dysfunction and Learning: Implications for Parkinson's Disease and Schizophrenia Lowenstein Foundation, Co-I (PI: Gluck)

## PUBLICATIONS

1. Bornstein, A.M., Khaw, M.W., Shohamy, D., & Daw, N.D. (2017). Reminders of past choices bias decisions for reward in humans. *Nature Communications*, 8, 15958.
2. Gerraty, R.T., Davidow, J.D., Foerde, K., Galvan, A., Bassett, D.S., & Shohamy, D. (2017). Dynamic flexibility in striatal-cortical circuits supports reinforcement learning. bioRxiv, 094383.
3. Duncan, K.D., Shohamy, D. (2016). Memory states influence value-based decisions. *Journal of Experimental Psychology: General*, 145(11):1420-1426.
4. Davidow, J. Y., Foerde, K., Galván, A., & Shohamy, D. (2016). An upside to reward sensitivity: The hippocampus supports enhanced reinforcement learning in adolescence. *Neuron*, 92(1), 93-99.
5. Shadlen, M. & Shohamy, D. (2016). Decision making and sequential sampling from memory. *Neuron*, 90(5), 927-939.
6. Reinen, J. M., Van Snellenberg, J. X., Horga, G., Abi-Dargham, A., Daw, N. D., & Shohamy, D. (2016). Motivational context modulates prediction error responses in Schizophrenia. *Schizophrenia Bulletin*, 42(3).
7. Van Snellenberg, J. X., Girgis, R. R., Horga, G., van de Giessen, E., Slifstein, M., Ojeil, N., ... & Smith, E. E. (2016). Mechanisms of working memory impairment in Schizophrenia. *Biological Psychiatry*, 80(8):617-626.
8. Zaki, J., Kallman, S., Wimmer, G. E., Ochsner, K., & Shohamy, D. (2016). Social cognition as reinforcement learning: feedback modulates emotion inference. *Journal of Cognitive Neuroscience*, in press.

9. Foerde, K., Figner, B., Doll, B. B., Woyke, I. C., Braun, E. K., Weber, E. U., & Shohamy, D. (2016). Dopamine modulation of intertemporal decision-making: Evidence from Parkinson's disease. *Journal of Cognitive Neuroscience*, 28(5).
10. Marvin, C. B., & Shohamy, D. (2016). Curiosity and reward: valence predicts choice and information prediction errors enhance learning. *Journal of Experimental Psychology: General*, 145(3).
11. Sharp, M. E., Foerde, K., Daw, N. D., & Shohamy, D. (2015). Dopamine selectively remediates' model-based reward learning: A computational approach. *Brain*, 139:355-64.
12. Van Snellenberg, J. X., Girgis, R. R., Horga, G., van de Giessen, E., Slifstein, M., Ojeil, N., ... & Smith, E. E. (2016). Mechanisms of working memory impairment in schizophrenia. *Biological Psychiatry*.
13. Sharp, M., Foerde, K., Daw, N., & Shohamy, D. (2015). Learning processes in Parkinson's disease and healthy aging (I3-5C). *Neurology*, 84(14 Supplement), I3-5C.
14. Foerde, K., Steinglass, J., Shohamy, D., & Walsh, B.T. (2015). Neural mechanisms supporting maladaptive food choices in Anorexia Nervosa. *Nature Neuroscience*, 18, 1571-1573.
15. Shohamy, D. & Daw, N. D. (2015). Integrating memories to guide decisions. *Current Opinion in Behavioral Sciences*, 5(2015), 85-90.
16. Doll, B. B., Duncan, K. D., Simon, D. A., Shohamy, D., & Daw, N. D. (2015). Model-based choices involve prospective neural activity. *Nature Neuroscience*, 18, 767-772.
17. Doll, B. B., Shohamy, D., & Daw, N. D. (2015). Multiple memory systems as substrates for multiple decision systems. *Neurobiology of learning and memory*, 117, 4-13.
18. Steinglass, J., Foerde, K., Kostro, K., Shohamy, D., & Walsh, B. T. (2015). Restrictive food intake as a choice—A paradigm for study. *International Journal of Eating Disorders*, 48(1), 59-66.
19. Schmidt, L., Braun, E. K., Wager, T., & Shohamy, D. (2014) Mind matters: Placebo enhances reward learning in Parkinson's disease. *Nature Neuroscience*, 17(12), 1793-1797.
20. Roy, M., Shohamy, D., Daw, N.D., Jepma, M., Wimmer, G.E., & Wager, T. (2014). Representation of aversive prediction errors in the human periaqueductal grey. *Nature Neuroscience*, 17(11), 1607-1612.
21. 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.
22. Gerraty, R.\*, Davidow, J\*, Wimmer, G. E., Kahn, I., & Shohamy, D. (2014). Transfer of learning related to intrinsic connectivity between hippocampus, ventromedial prefrontal cortex, and large-scale networks. *The Journal of Neuroscience*, 34(34), 11297-11303.
23. Van Snellenberg, J. X., Slifstein, M., Read, C., Weber, J., Thompson, J. L., Wager, T. D., Shohamy, D., Abi-Dargham, A., & Smith, E. E. (2014). Dynamic shifts in brain network activation during supracapacity working memory task performance. *Human brain mapping*.
24. Doll, B. B., Shohamy, D., & Daw, N. D. (2014). Multiple memory systems as substrates for multiple decision systems. *Neurobiology of learning and memory*.

25. Insel, C., Reinen, J., Weber, J., Wager, T. D., Jarskog, L. F., Shohamy, D., & Smith, E. E. (2014). Antipsychotic dose modulates behavioral and neural responses to feedback during reinforcement learning in schizophrenia. *Cognitive, Affective, & Behavioral Neuroscience*, *14*(1), 189-201.
26. Reinen, J., Smith, E. E., Insel, C., Kribs, R., Shohamy, D., Wager, T. D., & Jarskog, L. F. (2014). Patients with schizophrenia are impaired when learning in the context of pursuing rewards. *Schizophrenia research*, *152*(1), 309.
27. Shohamy, D. & Turk-Browne, N. (2013). Mechanisms for widespread hippocampal involvement in cognition. *Journal of Experimental Psychology: General*, *142*(4), 1159-1170.
28. Wimmer, G.E. & Shohamy, D. (2013). Dopamine and the cost of aging. *Nature Neuroscience (News & Views)*, *16*(5), 519-521.
29. Foerde, K., Race, E., Verfaellie, M., & Shohamy, D. (2013). A role for the medial temporal lobe in incremental feedback-driven learning: Evidence from amnesia. *Journal of Neuroscience*, *33*, 5698-704.
30. Kahn, I. & Shohamy, D. (2013). Intrinsic connectivity between the hippocampus, nucleus accumbens and ventral tegmental area in humans. *Hippocampus*, *23*(3):187-192.
31. Wimmer, G.E. & Shohamy, D. (2012). Preference by association: How memory mechanisms in the hippocampus bias decisions. *Science*, *338*, 270-273.
32. Foerde, K., Braun, E.K. & Shohamy, D. (2012) A tradeoff between feedback-based learning and episodic memory for feedback events: Evidence from Parkinson's disease. *Neurodegenerative Disorders*, *11*:93-101.
33. Roy, M., Shohamy, D., & Wager, T.D. (2012). Ventromedial prefrontal-subcortical systems and the generation of affective meaning. *Trends in Cognitive Sciences*, *16*(3), 147-156.
34. Wimmer, G.E., Daw, N.D. & Shohamy, D. (2012). Generalization of value in reinforcement learning by humans. *European Journal of Neuroscience*, Special Issue: Beyond Simple Reinforcement Learning, *35*(7), 1092-1104.
35. Ivleva, E., Shohamy, D., Mihalakos, P., Morris, D.W., Carmody, T. & Tammimga, C.A. (2012). Memory generalization is selectively altered in the psychosis dimension. *Schizophrenia Research*, *138*(1), 74-80.
36. Foerde, K. & Shohamy, D. (2011). The role of the basal ganglia in learning and memory: Insight from Parkinson's disease. *Neurobiology of Learning and Memory*, *96*(4), 624-36.
37. Foerde, K. & Shohamy, D. (2011). Feedback timing modulates brain systems for learning in humans. *Journal of Neuroscience*, *31*(37), 13157-13167.
38. Shohamy, D. (2011). Learning and motivation in the human striatum. *Current Opinion in Neurobiology*, *21*(3), 408-414.
39. Wimmer, G.E. & Shohamy, D. (2011). The striatum and beyond: Hippocampal contributions to decision making. In M. Delgado, E.A. Phelps, & T.W. Robbins (Eds.), *Attention & Performance XXII* (pp. 281-309). Oxford: Oxford University Press.
40. Sadeh, T., Shohamy, D., Levy, D.R., Reggev, N., & Maril, A. (2011). Cooperation between the hippocampus and the striatum during episodic encoding. *Journal of Cognitive Neuroscience*, *23*(7), 1597-1608.
41. Shohamy, D. & Adcock, R.A. (2010). Dopamine and adaptive memory. *Trends in Cognitive Science*, *14*(10), 464-472.
42. Wilbrecht, L. & Shohamy, D. (2010). Neural circuits can bridge systems and cognitive neuroscience. *Frontiers in Human Neuroscience*, *3*, 81.

43. Shohamy, D., Mihalakos, P., Chin, R., Thomas, B., Wagner, A.D., & Tamminga, C. (2010). Learning and generalization in Schizophrenia: Effects of disease and antipsychotic drug treatment. *Biological Psychiatry*, *67*(10), 926-932.
44. Djonlagic, I., Rosenfeld, A., Shohamy, D., Myers, C.E., Gluck, M.A., & Stickgold, R. (2009). Sleep enhances category learning. *Learning and Memory*, *16*(12), 751-755.
45. Shohamy, D. & Wagner, A.D. (2009). Integrative encoding. *American Journal of Psychiatry*, *166*(3), 284.
46. Meeter, M., Shohamy, D., & Myers, C.E. (2009). Acquired equivalence changes stimulus representations. *Journal of Experimental Analysis of Behavior*, *91*(1), 127-141.
47. Shohamy, D., Myers, C.E., Hopkins, R.O., & Gluck, M.A. (2009). Distinct hippocampal and basal ganglia contributions to probabilistic learning and reversal. *Journal of Cognitive Neuroscience*, *21*(9), 1821-1833.
48. Shohamy, D. & Wagner, A.D. (2008). Integrating memories in the human brain: Hippocampal-midbrain encoding of overlapping events. *Neuron*, *60*(2), 378-389.
49. Daw, N.D. & Shohamy, D. (2008). The cognitive neuroscience of motivation and learning. *Social Cognition*, Special Issue: Cognitive Motivation and Motivated Cognition, *26*(5), 593-620.
50. Shohamy, D., Myers, C.E., Kalanithi, J., & Gluck, M.A. (2008). Basal ganglia and dopamine contributions to probabilistic category learning. *Neuroscience and Biobehavioral Reviews*, *32*(2), 219-236.
51. Vadhan, N.P., Myers, C.E., Rubin, E., Shohamy, D., Foltin, R.W., & Gluck, M.A. (2008). Stimulus-response learning in long-term cocaine users: Acquired equivalence and probabilistic category learning. *Drug and Alcohol Dependence*, *93*(1-2), 155-162.
52. Nagy, H., Keri, S., Meyers, C.E., Benedek, G., Shohamy, D. & Gluck, M.A. (2007). Cognitive sequence learning in Parkinson's disease and amnesic mild cognitive impairment: Dissociation between sequential and non-sequential learning of associations. *Neuropsychologia*, *45*(7), 1386-1392.
53. Shohamy, D., Myers, C.E., Geghman, K.D., Sage, J., & Gluck, M.A. (2006). L-Dopa impairs learning, but spares generalization, in Parkinson's disease. *Neuropsychologia*, *44*(5), 774-784.
54. Meeter, M., Myers, C.E., Shohamy, D., Hopkins, R.O., & Gluck, M.A. (2006). Strategies in probabilistic categorization: Results from a new way of analyzing performance. *Learning & Memory*, *13*(2), 230-239.
55. Preston, A.R., Shohamy, D., Tamminga, C.A., & Wagner, A.D. (2005). Hippocampal function, declarative memory, and schizophrenia: anatomic and functional neuroimaging considerations. *Current Neurology and Neuroscience Reports*, *5*(4), 249-256.
56. Shohamy, D., Myers, C.E., Grossman, S., Sage, J., & Gluck, M.A. (2005). The role of dopamine in cognitive sequence learning: Evidence from Parkinson's disease. *Behavioral Brain Research*, *156*(2), 191-199.
57. Shohamy, D., Myers, C.E., Grossman, S., Sage, J., Gluck, M.A., & Poldrack, R.A. (2004). Cortico-striatal contributions to feedback-based learning: Converging data from neuroimaging and neuropsychology. *Brain*, *127*(Pt 4), 851-859.
58. Hopkins, R.O., Myers, C.E., Shohamy, D., Grossman, S., & Gluck, M.A. (2004). Impaired probabilistic category learning in hypoxic subjects with hippocampal damage. *Neuropsychologia*, *42*(4), 524-535.
59. Shohamy, D., Myers, C.E., Onlaor, S., & Gluck, M.A. (2004). Role of the basal ganglia in category learning: How do patients with Parkinson's disease learn? *Behavioral Neuroscience*, *118*(4), 676-686.

60. Aron, A.R., Shohamy, D., Clark, J., Myers, C.E., Gluck, M.A., & Poldrack, R.A. (2004). Human midbrain sensitivity to cognitive feedback and uncertainty during classification learning. *Journal of Neurophysiology*, *92*(2), 1144-1152.
61. Myers, C.E., Shohamy, D., Gluck, M.A., Grossman, S., Onlaor, S., & Kapur, N. (2003). Dissociating medial temporal and basal ganglia memory systems with a latent learning task. *Neuropsychologia*, *41*(14), 1919-1928.
62. Myers, C.E., Shohamy, D., Gluck, M.A., Grossman, S., Kluger, A., Ferris, S., Golomb, J., Schnirman, G., & Schwartz, R. (2003). Dissociating hippocampal versus basal ganglia contributions to learning and transfer. *Journal of Cognitive Neuroscience*, *15*(2), 185-193.
63. Gluck, M.A., Shohamy, D., & Myers, C.E. (2002). How do people solve the "Weather Prediction" task? Individual variability in strategies for probabilistic category learning. *Learning and Memory*, *9*(6), 408-418.
64. Poldrack, R.A., Clark, J., Pare-Blagoev, E.J., Shohamy, D., Creso Moyano, J., Myers, C., & Gluck, M.A. (2001). Interactive memory systems in the human brain. *Nature*, *414*(6863), 546-550.
65. Shohamy, D., Allen, M.T., & Gluck, M.A. (2000). Dissociating entorhinal and hippocampal involvement in latent inhibition. *Behavioral Neuroscience*, *114*(5), 867-874.

## **INVITED SYMPOSIA AND TALKS**

### **International and National Meetings**

- 2017 Society for Neuroscience Special Lecture on Memory and Decision Making; Washington DC
- 2017 International Conference for Cognitive Neuroscience, Keynote Address, Amsterdam, Holland
- 2017 "Brainy Days in Jerusalem II", International neuroscience conference, Hebrew University, Israel
- 2017 Computational and Systems Neuroscience, Invited Talk on Memory and Decision Making
- 2017 McKnight Foundation Annual Meeting, Invited Talk on Memory and Decision Making
- 2017 Alpine Brain Imaging Meeting, Invited talk on How Memory Guides Exploration and Learning, Champéry, Switzerland
- 2016 Society for Neuroeconomics Annual Meeting, Invited talk on Memory and Decision Making, Berlin, Germany
- 2016 Annual International Symposium on Decision Neuroscience – "Memory, Value and Choice"
- 2016 The Neuroscience of Decision-Making Annual Meeting "Memory and value-based decisions", Montreal, CA
- 2016 Cognitive Neuroscience Society Invited Symposium – "Reactivating memories to guide decisions"
- 2016 ISAN- "How memory mechanisms in the hippocampus guide value-based decisions", Haifa University, Haifa, Israel.
- 2015 CRCNS Investigator meeting; "How episodic memory guides decisions: Computational and cognitive mechanisms", Seattle, WA.
- 2015 NYU-Duke Neuroeconomics Summer Institute, Shanghai, China
- 2015 International Neuropsychological Symposium, "Medial temporal lobe contributions to non-memory functions", Collioure, France
- 2015 FENS conference on "Bridging Neural Mechanisms and Cognition", Copenhagen, Denmark
- 2015 Computational and Systems Neuroscience (CoSyNe), Workshop on "Memory in action: The role(s) of the hippocampus in decisions for reward", Salt Lake City, Utah.
- 2015 FENS Winter School, "The neuroscience of decision making", Austria
- 2015 Symposium on the Science of Prospection, Philadelphia, PA
- 2014 International Symposium on "Biology of Decision Making", Paris, France
- 2014 Workshop on *Neuroeconomics: Recent Advances and Future Directions*, Erice, Italy
- 2014 International Meeting on *Memory and the Brain in Health and Disease*, Toronto, Canada
- 2014 Young Investigator Award Recipient Talk, Cognitive Neuroscience Society Annual Meeting, Boston, MA
- 2013 Symposium on "Learning, Memory and Value", Society for Neuroscience, San Diego
- 2013 "Reinforcement Learning and Decision Making" Annual Meeting, Princeton, NJ
- 2013 Computational Psychiatry, Miami, Florida
- 2013 International Meeting on "Decision Making in the Brain", Keio University, Japan

- 2012 Symposium on “Rewards, Habits and Learning: Towards an Integrative View of FrontoStriatal Function”, Columbia University (Organizer and Speaker)
- 2012 Memory Disorders Research Society Annual Meeting, Symposium on “Learning About and Using Regularities to Guide Behavior”, Davis, CA (Chair and Speaker)
- 2012 Pavlovian Society Annual Meeting, Jersey City, NJ
- 2012 Annual meeting of the Society for Philosophy and Psychology; Symposium on “Automatic vs. Controlled Processes in Motivation”, Boulder, CO
- 2011 Winter Conference on Brain Research, Keystone, CO. Symposium on “*Investigations into the neural circuits mediating model-based learning about reward value versus identity*”
- 2011 Memory Disorders Research Society Annual Meeting, Symposium on “Memory and Cognitive Dysfunction in Parkinson’s Disease”, Barcelona, Spain
- 2010 International Basal Ganglia Society Annual Meeting, NJ. Symposium on “*Cognitive functions of the basal ganglia*”
- 2010 Cognitive Neuroscience Society Annual Meeting, Montreal, Canada. Symposium on “*Dopamine and Adaptive Memory*” (Chair and Speaker)
- 2009 American Psychological Science Annual Meeting, San Francisco, CA. Symposium on “*New advances in understanding memory*”
- 2008 Annual meeting of the Society of Personality and Social Psychology, Albuquerque, NM. Symposium on “*Goal-Directed Learning Outside the Cartesian Theater*”.
- 2005 International Conference on “*Basal Ganglia, Dopamine and Learning: Integrating Computational and Clinical Perspectives*”, Hebrew University, Israel

**University Seminars and Small Meetings**

- 2017 Duke University, Center for Cognitive Neuroscience Colloquium, North Carolina
- 2017 Cambridge University, Chaucer Club, Cognition and brain sciences unit, Cambridge, UK
- 2017 Harvard University, Department of Psychology Colloquium, Cambridge, MA
- 2017 Geneva-Princeton Workshop on Learning, “Learning Structure in Uncertain Environments”, Geneva, Switzerland.
- 2016 Tel-Aviv University, Sagol Neuroscience Seminar Series, Israel
- 2016 University of Colorado, Boulder; Department of Psychology Colloquium
- 2016 Memory Disorders Research Society, Symposium in Memory and Decision Making (Chair and speaker).
- 2016 Whistler Scientific Workshop –“Brain networks for learning: connectivity, flexibility, and individual difference”, Whistler-Blackcomb, BC, Canada
- 2015 Washington University, Dept. of Psychology, Colloquium Series
- 2015 Zurich, Dept. of Economics, Neuroeconomics Talk Series
- 2014 Brain, Mind and Society Seminar Series, Caltech, CA
- 2014 Functional MRI Speaker Series, University of Michigan, Ann Arbor, MI
- 2013 Center for Memory and Brain, Boston University, MA
- 2013 Center for Cognitive Neuroscience, University of Pennsylvania, PA
- 2013 Department of Psychology, Yale University, NY
- 2013 Sackler Summer Course in Developmental Neuroscience, Cornell Medical School, NY
- 2013 Cognition in Huntington’s Disease, Princeton, NJ
- 2013 Functional Imaging Laboratory, UCL, London, UK
- 2013 Workshop on “Advances in Memory Systems”, NYU, NY
- 2013 Department of Psychology, University of Arizona, AZ
- 2013 Hebrew University Cognitive Science Talk Series, Jerusalem, Israel
- 2012 Social and Affective Neuroscience Talk Series, Princeton, NJ
- 2012 Symposium on “Statistics of the Mind”, Columbia University, NY
- 2012 Workshop on “The Striatum”, University College, London, UK
- 2012 Sackler Summer Course in Developmental Neuroscience, Cornell Medical School, NY
- 2011 Magnetic Resonance Research Center, Yale University, CT
- 2011 Neuroeconomics Talk Series, New York University, NY
- 2011 Rotman Research Institute, University of Toronto, Canada
- 2011 Krasnow Institute Talk Series, George Mason University
- 2011 Department of Psychiatry, Cornell University

2011	Department of Neurology, Division of Movement Disorders, Columbia University Medical Center
2011	Biopsychology Colloquium Series, Tel-Aviv University, Israel
2010	Memory in Brain Talk Series, New York University, NY
2010	Center for Theoretical Neuroscience, Columbia University
2010	Neuroscience and Behavior Colloquium, Amherst University
2010	Workshop on “ <i>Dopamine and Learning</i> ”, Boston, MA
2010	Department of Psychology, Princeton University, NJ
2010	Department of Psychology, Rutgers University, NJ
2010	Center for Cognitive Neuroscience, Duke University, NC
2009	Department of Neuroscience, University of Texas, Southwestern
2009	Department of Psychology, New York University, NY
2009	Sackler Institute for Developmental Psychobiology, Cornell University
2009	Department of Psychiatry, Columbia University, NY
2009	Functional Imaging Lab, University College London, UK
2009	Neurobiology Seminar, Columbia University, NY
2009	Banbury Workshop on Memory: “ <i>Searching for Principles Underlying Memory in Biological Systems</i> ”, Cold Spring Harbor, NY
2008	International Symposium on <i>Attention &amp; Performance: Decision Making</i> . Stowe, VT
2004	Cognitive Neuroscience of Category Learning workshop. NYC
2003	Workshop on “ <i>Dopamine and Memory: Integrating Computational and Empirical Approaches</i> ”, Rutgers University, NJ
2003	Department of Psychology, UCLA, CA
2002	Department of Psychology, Penn State University, PA
2000	Cognitive Neuroscience Lab, National Institute of Mental Health, Washington DC

### **Public Outreach/Popular Press Coverage**

2017	Helix Center, New York City, “‘Fake’ Knowledge: Knowing and the Illusion of Knowing”
2016	World Science Festival, “My Society, My Self”, Salon
2016	World Science Festival, “My Neurons, My Self”, Main Stage
2016	WNYC “Note to Self” program with Manoush Zomorodi
2016	Stavros Niarkos Brain Highlight Lecture on “Learning and the Brain”
2016	Public performance, WNYC, Information overload and the brain
2015	TIME magazine online; featured program on our findings re decision making in Anorexia
2015	NY Times, featured news article on our findings re decision making in Anorexia
2015	Nature Podcast, featured interview on our findings re decision making in Anorexia
2013	Public event on <i>The Future of Learning</i> organized by Columbia Business School Executive Education
2013	Learning and the Brain, Columbia University’s <i>Brain Series</i> for alumni and trustees, Carlyle Hotel, NYC
2013	<i>Cognitive Neuroscience for Journalists</i> , School of Journalism, Columbia University
2013	Dopamine, Learning and Motivation, lecture for educators and parents, in <i>Learning and the Brain</i> event Columbia University, NYC
2013	Los Angeles Times “How our powerful memories can also bias our decisions” (October 11)
2012	Public Lecture on “How We Remember, Why We Forget, and Why It Matters”, University of Washington Edwards Series, Seattle, WA
2011	Calhoun School of NYC, Workshop on <i>Neuroscience and Education</i>
2010	<i>Cognitive Neuroscience for Journalists</i> , School of Journalism, Columbia University

### **PROFESSIONAL SERVICE**

#### **Committees and Boards**

2017-2018	Computational and Cognitive Neuroscience, Steering Committee
2017-present	Vice Chair, Executive Committee for Zuckerman Mind, Brain, Behavior Institute, Columbia University\
2016-2018	Department of Psychology Search Committee (Chair)
2014-2016	Academic Review Committee, School of Arts & Sciences, Columbia University
2009-2016	Department of Psychology Search Committee



2010-present Department of Neuroscience Search Committee  
2007-2015 Graduate Admissions Committee, Dept. of Psychology  
2010-2015 Colloquium Committee, Dept. of Psychology  
2010 – 2013 Board Member, Society for Neuroeconomics

**Grant Reviews (2009-present)**

Ad-hoc Reviewer for NIH  
Ad-hoc Reviewer for NSF  
Ad-hoc Reviewer for Israeli Science Foundation  
Ad-hoc Reviewer for Wellcome Trust, UK

**Ad Hoc Reviewer for Scientific Publications**

Brain, Behavioral Neuroscience, Cerebral Cortex, Cognitive, Behavioral and Affective Neuroscience, Frontiers in Neuroscience, Hippocampus, Journal of Cognitive Neuroscience, Journal of Neuroscience, Learning & Memory, Nature Neuroscience, NeuroImage, Neuron, Neuropsychologia, PloS, PNAS, Science

**Professional Memberships**

Columbia's Kavli Center for Brain Science, Cognitive Neuroscience Society, Society for Neuroeconomics, Society for Neuroscience, Association for Psychological Science, Human Brain Mapping, International Neuropsychological Society, Memory Disorders Research Society, Computational and Cognitive Neuroscience

**TEACHING**

Frontiers of Science (Mind and Brain Lectures)	2016-present
Cognitive Neuroscience and the Media, Columbia University	2010-present
Learning and the Brain, Columbia University	2009-present
Mind, Brain and Behavior, Columbia University	2008-2016
Methods and Issues in Cognitive Neuroscience, Columbia University	2008-2010