Nicholas B. Turk-Browne

Curriculum Vitae
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Contact Information

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Academic Appointments

Yale University

Director, Wu Tsai Institute	2021–
Professor, Department of Psychology (primary) Child Study Center, Cognitive Science Program, Department of Psychiatry, Interdepartmental Neuroscience Program, Wu Tsai Institute	2017–

Princeton University

Professor, Department of Psychology (primary) Princeton Neuroscience Institute Princeton Institute for Computational Science & Engineering	2016–2017
Associate Professor (tenured)	2014–2016
Assistant Professor	2009–2014

Education

Ph.D.	Yale University	Cognitive Psychology (M.S. 2005, M.Phil. 2006)	2009
H.B.Sc.	University of Toronto	Cognitive Science/Artificial Intelligence	2004

Awards & Fellowships (selected)

Fellow, Canadian Institute for Advanced Research	2016–2026
Early Investigator Award, Society of Experimental Psychologists	2018
Young Investigator Award, Cognitive Neuroscience Society	2017
Young Investigator Award, Vision Sciences Society	2016
Distinguished Scientific Award for Early Career Contribution to Psychology, APA	2015
Lawrence S. Brodie University Preceptor, Princeton University	2012–2015
Robert L. Fantz Memorial Award, American Psychological Foundation	2014
Rising Star, Association for Psychological Science	2012
James B. Grossman Dissertation Prize, Yale University	2009
Early Graduate Student Researcher Award, American Psychological Association	2006
Summer Institute in Cognitive Neuroscience Fellowship	2006

Doctoral Postgraduate Scholarship (foreign), NSERC 2005–2008
Masters Postgraduate Scholarship (foreign), NSERC 2004–2005

Research Interests

General Areas

Perception and Attention
Learning and Memory
Cognitive Neuroscience
Early Development

Current Topics (selected)

Statistical Learning: *How do we learn the structure of the world and use it for prediction?*
Infantile Amnesia: *Why are adults unable to remember anything from when they were infants?*
Background Connectivity: *How do brain networks reconfigure dynamically to support tasks?*
Real-time Neurofeedback: *How can cognitive abilities be trained and enhanced?*
Data Neuroscience: *What can we learn about the brain from machine learning, and vice versa?*

Techniques

Behavioral psychophysics
Functional magnetic resonance imaging
Patients with brain lesions
Intracranial recording and stimulation
Neural network modeling
High-performance computing

Lab Members

Postdoctoral Fellows

10 total: 2 current, 8 former (7 in faculty positions)

Sheri Choi (2021–)
Research: Longitudinal memory development and infantile amnesia
Honors: *Postdoctoral Fellowship*, SSHRC (2022–)

Laurent Caplette (2020–)
Research: Deep neural networks and human perception
Honors: *Postdoctoral Research Scholarship*, FRQNT (2020–2023)
Postdoctoral Fellowship, NSERC (2023–)

David Huberdeau (2017–2021)
Research: Perception and memory in motor control
Honors: *Postdoctoral Fellowship*, Kavli Institute of Neuroscience (2020–2021)
After: *Research Scientist*, AI and Machine Learning Lab, Riverside Research (2021–)

Jeffrey Wammes (2017–2020)
Research: Drawing and competition-dependent learning
Honors: *Postdoctoral Fellowship*, NSERC (2017–2019)
Banting Fellowship, SSHRC (2019–2020)
After: *Assistant Professor*, Queen's University (2020–)

Peter Kok (2016–2018)
Research: Neural sources of prediction
Honors: *Rubicon Fellowship*, Netherlands Organisation for Scientific Research (2016–2018)
After: *Principal Investigator*, University College London (2018–)

Nicholas Hindy (2012–2017)
Research: Action-contingent visual coding
Honors: *National Research Service Award*, NIH (F32 EY023162, 2013–2016)
Clinical Loan Repayment Program Award, NIH (2014-2016)
After: *Assistant Professor*, University of Louisville (2017–)

Mariam Aly (2013–2017)
Research: Attentional states in memory systems
After: *Assistant Professor*, Columbia University (2017–)

J. Benjamin Hutchinson (2011–2016)
Research: Memory-guided attention
Honors: *National Research Service Award*, NIH (F32 EY021999, 2011–2014)
After: *Assistant Professor*, Northeastern University (2017–2018)
Assistant Professor, University of Oregon (2018–)

Vikranth Rao Bejjanki (2012–2016)
Research: Connectivity-based perceptual learning
After: *Assistant Professor*, Hamilton College (2016–)

Naseem Al-Aidroos (2010–2012)
Research: Attentional modulation of connectivity
Honors: *Postdoctoral Fellowship*, NSERC (2010–2012)
After: *Assistant Professor*, University of Guelph (2012–2017)
Associate Professor, University of Guelph (2017–)

Graduate Students
14 total: 4 current, 10 former (5 faculty, 4 postdocs/research scientists)

Erica Busch (2020–)
Research: Learning along the neural manifold
Honors: *Graduate Research Fellowship*, NSF (2021–2024)

Kailong Peng (2019–)
Research: Differentiating memories with neurofeedback

Kathryn Graves (2018–)
Research: Learning and consolidation of regularities
Honors: *YCCI Multidisciplinary Training Program Award* (2020–2021)
Predoctoral to Postdoctoral Fellow Transition Award (F99/K00), NIH (2021–2027)

Tristan Yates (2018–)
Research: How infants experience the world
Honors: *Graduate Research Fellowship*, NSF (2018–2021)

Brynn Sherman (2017–2022)
Research: Tradeoffs between statistical and episodic learning
Honors: *Graduate Research Fellowship*, NSF (2017–2020)
Trainee Professional Development Award, SfN (2021)
After: *Postdoctoral Fellow*, University of Pennsylvania (2022–)

Cameron Ellis (2014–2021)
Research: Early developmental neuroimaging
Honors: *James Grossman Dissertation Award*, Yale University (2021)
Dissertation Award, Flux Society (2021)
After: *Postdoctoral Fellow*, Haskins Labs (2021–2022)
Assistant Professor, Stanford University (2023–)

Matthew Panichello (2013–2020; primary advisor: Timothy Buschman)
Research: Perception as fusion of sensation and expectation
Honors: *Graduate Fellowship*, NDSEG (2015-2018)
After: *Postdoctoral Fellow*, Stanford University (2021–)

Natalia Córdova (2012–2017)
Research: Relational attention and perception
Honors: *Quin Morton Fellowship*, Princeton University (2016–2017)
After: *Lecturer*, Princeton University (2017–2018)
Lecturer, Yale University (2018–2020)
Director of Studies, Mathey College, Princeton University (2020–)

Judith Fan (2011–2017)
Research: Internal attention and visual production
Honors: *Graduate Research Fellowship*, NSF (2013–2016)
Early Graduate Student Researcher Award, APA (2013)
Computational Modeling Prize for Perception and Action, Cog Sci Society (2015)
Glushko Prize in Cognitive Science, Cog Sci Society (2017)
After: *Postdoctoral Fellow*, Stanford University (2017–2019)
Assistant Professor, University of California - San Diego (2019–2023)
Assistant Professor, Stanford University (2023–)

Megan DeBettencourt (2010–2016; co-advisor: Kenneth Norman)
Research: Improving attention and memory with neurofeedback
Honors: *Graduate Research Fellowship*, NSF (2012–2015)
Best Student Presentation, Attention and Learning Workshop (2013)
Student Travel Award, Real-time Neurofeedback Conference (2015)
After: *Postdoctoral Fellow*, University of Chicago (2016–)

Ghootae Kim (2011–2016; co-advisor: Kenneth Norman)
Research: Context-based visual prediction
After: *Postdoctoral Fellow*, University of Oregon (2016–2018)
Senior Researcher, Korea Brain Research Institute (2018–)

Anna Schapiro (2009–2014; co-advisors: Matthew Botvinick, Kenneth Norman)
Research: Role of medial temporal lobe in statistical learning
Honors: *Graduate Research Fellowship*, NSF (2010–2013)
After: *Postdoctoral Fellow*, Harvard Medical School (2015–2019)
Assistant Professor, University of Pennsylvania (2019–)

Jiaying Zhao (2009–2013; co-advisors: Daniel Osherson, Eldar Shafir)
Research: Statistical perception and learning
Honors: *Porter Ogden Jacobus Fellowship*, Princeton University (2012–2013)
After: *Assistant Professor & Canada Research Chair*, UBC (2013–2019)
Associate Professor, University of British Columbia (2019–)

Sara Verosky (2009–2012; primary advisor: Alexander Todorov)
Research: Visual and social representations of facial identity
Honors: *Travel Award*, Vision Sciences Society (2011)
After: *Postdoctoral Fellow*, Harvard University (2012–2014)
Assistant Professor, Oberlin College (2015–)

Undergraduate Students (selected)	After:
Neelam Shaikh (Yale '21)	postgraduate associate at Yale
Sreejan Kumar (Yale '19)	graduate student at Princeton
Jarryd Osborne (Princeton '18)	research assistant at Pitt
Emily Avery (Princeton '17)	medical student at Yale
Sahiba Singh (Princeton '16)	software engineer at Google
Felicia Ng (Princeton '15)	graduate student at Carnegie Mellon
Morgan Taylor (Princeton '15)	graduate student at Duke
Lisa Yankowitz (Princeton '13)	graduate student at UPenn
Riana Betzler (Yale '10)	graduate student at Cambridge
Samuel Norman-Haignere (Yale '10)	graduate student at MIT
Phillip Isola (Yale '08)	graduate student at MIT

Lab Staff (selected)	After:
Jonathan Daniels (2019–2021)	graduate student at Princeton
Lindsay Rait (2017–2019)	graduate student at Oregon
Jennifer Bu (2017–2018)	medical student at UCSD
Chandra Greenberg (2015–2017)	research assistant at Princeton
Nate Wilson (2014–2015)	graduate student at USF
Victoria Ritvo (Jackson-Hanen) (2012–2014)	graduate student at Princeton
Alexa Tompary (2010–2012)	graduate student at NYU
Nhi Ngo (2010–2011)	graduate student at Brandeis
Ryan McKendrick (2009–2010)	graduate student at George Mason

Research Grants (selected)

National Institutes of Health (R61 MH128492, first phase of 5-year R61/R33) 2021–2023
Title: Reducing neural perseveration through neurofeedback to alleviate depressive symptoms
Role: Co-I Total: $1,599,926

National Institutes of Health (R01 EY031589) 2021–2025
Title: Characterization of multiple factors in training and plasticity in central vision loss
Role: MPI (w/ Kristina Visscher, Aaron Seitz) Total: $2,358,446

James S. McDonnell Foundation 2020–2024
Title: Establishing ground truth about the development of episodic memory in infancy
Role: PI Total: $250,000

National Institutes of Health (R01 MH069456) 2016–2022
Title: Computational, neural, and behavioral studies of competition-dependent learning
Role: MPI (w/ Ken Norman) Total: $2,343,192

National Science Foundation (CCF 1839308) 2018–2021
Title: TRIPODS+X:RES: Investigations at the interface of data science and neuroscience
Role: PI Total: $599,992

Intel Corporation 2015-2020
Summary: Optimization and development of high-performance methods for fMRI analysis
Role: Co-PI Total: $2,041,200

The John Templeton Foundation (57876) 2015–2018
Title: Toward a scientific understanding of the human capacity for cognitive control
Role: Investigator Total: $2,997,571

Geneva/Princeton Partnership, Princeton University 2015-2017
Title: Exploring links between statistical learning abilities and attention
Role: PI (w/ Daphne Bavelier) Total: $90,000

National Institutes of Health (R01 EY021755) 2011–2017
Title: Neural and behavioral interactions between attention, perception, and learning
Role: PI Total: $1,783,748

National Science Foundation (ACI 1440750) 2014–2016
Title: A software-defined campus network for big-data sciences
Role: Co-PI Total: $399,776

The John Templeton Foundation (36751) 2012–2015
Title: Toward a scientific understanding of the human capacity for cognitive control
Role: Investigator Total: $3,986,094

National Science Foundation (BCS 1229597) 2012–2015
Abbrev. title: Cluster for multivariate real-time and whole-brain correlation analysis
Role: Co-PI Total: $527,978 (+$560,000 in-kind Intel)

US-Israel Binational Science Foundation (2011315) 2012–2015
Title: Numerical and statistical processes in normal cognition and dyscalculia
Role: PI (w/ Liat Goldfarb) Total: $ 150,000

J. Insley Blair Pyne Fund, Engineering and Applied Science, Princeton University 2010–2012
Title: Computing and mining the full correlation matrix of human brain imaging datasets
Role: PI Total: $ 148,684

Publications

Journal Articles

101. Graves, K. N., Sherman, B. E., Huberdeau, D., Damisah, E., Quraishi, I. H., & Turk-Browne, N. B. (in press). Remembering the pattern: A longitudinal case study on statistical learning in spatial navigation and memory consolidation. *Neuropsychologia*.

100. Antony, J. W., Stiver, C. A., Graves, K. N., Osborne, J., Turk-Browne, N. B., & Bennion, K. A. (2022). Spatial gist extraction during human memory consolidation. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 48*, 929-941.

99. Bethlehem, R. A. I., *et al.* (2022). Brain charts for the human lifespan. *Nature, 604*, 525-533.

98. McDougle, S. D., Wilterson, S. A., Turk-Browne, N. B., & Taylor, J. A. (2022). Revisiting the role of the medial temporal lobe in motor learning. *Journal of Cognitive Neuroscience, 34*, 532-549.

97. Wallace, G., *et al.* (2022). RT-Cloud: A cloud-based software framework to simplify and standardize real-time fMRI. *NeuroImage, 257*, 119295.

96. Wammes, J. D., Norman, K. A., & Turk-Browne, N. B. (2022). Increasing stimulus similarity drives nonmonotonic representational change in hippocampus. *eLife, 11*, e68344.

95. Ellis, C. T., Skalaban, L. J., Yates, T. S., Bejjanki, V. R., Córdova, N. I., & Turk-Browne, N. B. (2021). Evidence of hippocampal learning in human infants. *Current Biology, 31*, 3358-3364.

94. Ellis, C. T., Skalaban, L. J., Yates, T. S., & Turk-Browne, N. B. (2021). Attention recruits frontal cortex in human infants. *Proceedings of the National Academy of Sciences, 118*, e2021474118.

93. Ellis, C. T., Yates, T. S., Skalaban, L. J., Bejjanki, V. R., Arcaro, M. J., & Turk-Browne, N. B. (2021). Retinotopic organization of visual cortex in human infants. *Neuron, 109*, 2616-2626.

92. Henin, S., *et al.* (2021). Learning hierarchical sequence representations across human cortex and hippocampus. *Science Advances, 7*, eabc4530.

91. Huberdeau, D. M., & Turk-Browne, N. B. (2021). Visuomotor associations facilitate movement preparation. *Journal of Experimental Psychology: Human Perception and Performance, 47*, 372-386.

90. Kumar, M., *et al.* (2021). BrainIAK: The brain imaging analysis kit. *Aperture, 1*, 42.

89. Mennen, A. C., *et al.* (2021). Cloud-based fMRI neurofeedback to reduce the negative attentional bias in depression: A proof-of-concept study. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 6*, 490-497.

88. Panichello, M. F., & Turk-Browne, N. B. (2021). Behavioral and neural fusion of expectation with sensation. *Journal of Cognitive Neuroscience, 33*, 814-825.

87. Wu, A., *et al.* (2021). Brain kernel: A new spatial covariance function for fMRI data. *NeuroImage, 245*, 118580.

86. Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2021). Emergence and organization of adult brain function throughout child development. *NeuroImage, 226*, 117606.

85. Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2021). The promise of awake behaving infant fMRI as a deep measure of cognition. *Current Opinion in Behavioral Sciences, 40*, 5-11.

84. Ellis, C. T., Skalaban, L. J., Yates, T. S., Bejjanki, V. R., Córdova, N. I., & Turk-Browne, N. B. (2020). Re-imagining fMRI for awake behaving infants. *Nature Communications, 11*, 4523.

83. Fan, J. E., Wammes, J. D., Gunn, J. B., Yamins, D. L. K., Norman, K. A., & Turk-Browne, N. B. (2020). Relating visual production and recognition of objects in human visual cortex. *Journal of Neuroscience, 40*, 1710-1721.

82. Graves, K. N., Antony, J. W., & Turk-Browne, N. B. (2020). Finding the pattern: Online extraction of spatial structure during virtual navigation. *Psychological Science, 31*, 1183-1190.

81. Kim, J. G., Gregory, E., Landau, B., McCloskey, M., Turk-Browne, N. B., & Kastner, S. (2020). Functions of ventral visual cortex after bilateral medial temporal lobe damage. *Progress in Neurobiology, 191*, 101819.

80. Kok, P., Rait, L. I., & Turk-Browne, N. B. (2020). Content-based dissociation of hippocampal involvement in prediction. *Journal of Cognitive Neuroscience, 32*, 527-545.

79. Kumar, M., *et al.* (2020). BrainIAK tutorials: User-friendly learning materials for advanced fMRI analysis. *PLoS Computational Biology, 16*, e1007549.

78. Kumar, S., Ellis, C. T., O'Connell, T. P., Chun, M. M., & Turk-Browne, N. B. (2020). Searching through functional space reveals distributed visual, auditory, and semantic coding in the human brain. *PLoS Computational Biology, 16*, e1008457.

77. Sherman, B. E., Graves, K. N., & Turk-Browne, N. B. (2020). The prevalence and importance of statistical learning in human cognition and behavior. *Current Opinion in Behavioral Sciences, 32*, 15-20.

76. Sherman, B. E., & Turk-Browne, N. B. (2020). Statistical prediction of the future impairs episodic encoding of the present. *Proceedings of the National Academy of Sciences, 117*, 22760-22770.

75. Cordova, N. I., Turk-Browne, N. B., & Aly, M. (2019). Focusing on what matters: Modulation of the human hippocampus by relational attention. *Hippocampus, 29*, 1025-1037.

74. deBettencourt, M. T., Turk-Browne, N. B., & Norman, K. A. (2019). Neurofeedback helps to reveal a relationship between context reinstatement and memory. *NeuroImage, 200*, 292-301.

73. Ellis, C. T., & Turk-Browne, N. B. (2019). Complexity can facilitate visual and auditory perception. *Journal of Experimental Psychology: Human Perception and Performance, 45*, 1271-1284.

72. Hindy, N. C., Avery, E. W., & Turk-Browne, N. B. (2019). Hippocampal-neocortical interactions sharpen over time for predictive actions. *Nature Communications, 10*, 3989.

71. Kim, G., Norman, K. A., & Turk-Browne, N. B. (2019). Neural overlap in item representations across episodes impairs context memory. *Cerebral Cortex, 29*, 2682-2693.

70. Mennen, A. C., Norman, K. A., & Turk-Browne, K. A. (2019). Attentional bias in depression: Understanding mechanisms to improve training and treatment. *Current Opinion in Psychology, 29,* 266-273.

69. Ritvo, V. J. H., Turk-Browne, N. B., & Norman, K. A. (2019). Nonmonotonic plasticity: How memory retrieval drives learning. *Trends in Cognitive Sciences, 23*, 726-742.

68. Turk-Browne, N. B. (2019). The hippocampus as a visual area organized by space and time: A spatiotemporal similarity hypothesis. *Vision Research, 165*, 123-130.

67. Aly, M., Chen, J., Turk-Browne, N. B., & Hasson, U. (2018). Learning naturalistic temporal structure in the posterior medial network. *Journal of Cognitive Neuroscience, 30*, 1345-1365.

66. Aly, M., & Turk-Browne, N. B. (2018). Flexible weighting of diverse inputs makes hippocampal function malleable. *Neuroscience Letters, 380*, 13-22.

65. deBettencourt, M. T., Norman, K. A., & Turk-Browne, N. B. (2018). Forgetting from lapses of sustained attention. *Psychonomic Bulletin & Review, 25*, 605-611.

64. Ellis, C. T., & Turk-Browne, N. B. (2018). Infant fMRI: A model system for cognitive neuroscience. *Trends in Cognitive Sciences, 22*, 375-387.

63. Fan, J. E., Yamins, D. L. K., & Turk-Browne, N. B. (2018). Common object representations for visual production and recognition. *Cognitive Science, 42*, 2670-2698.

62. Kok, P., & Turk-Browne, N. B. (2018). Associative prediction of visual shape in the hippocampus. *Journal of Neuroscience, 38*, 6888-6899.

61. Tompary, A., Al-Aidroos, N., & Turk-Browne, N. B. (2018). Attending to what and where: Background connectivity integrates categorical and spatial attention. *Journal of Cognitive Neuroscience, 30*, 1281-1297.

60. Bejjanki, V. R., da Silveira, R. A., Cohen, J. D., & Turk-Browne, N. B. (2017). Noise correlations in the human brain and their impact on pattern classification. *PLoS Computational Biology, 13*, e1005674.

59. Cohen, J. D., *et al.* (2017). Computational approaches to fMRI analysis. *Nature Neuroscience, 20*, 304-313.

58. Kim, G., Norman, K. A., & Turk-Browne, N. B. (2017). Neural differentiation of incorrectly predicted memories. *Journal of Neuroscience, 37*, 2022-2031.

57. Schapiro, A. C., Turk-Browne, N. B., Botvinick, M. M., & Norman, K. A. (2017). Complementary learning systems within the hippocampus: A neural network modeling approach to reconciling episodic memory with statistical learning. *Philosophical Transactions of the Royal Society B, 372*, 20160049.

56. Schlichting, M. L., Guarino, K. F., Schapiro, A. C., Turk-Browne, N. B., & Preston, A. R. (2017). Hippocampal structure predicts statistical learning and associative inference abilities during development. *Journal of Cognitive Neuroscience, 29*, 37-51.

55. Aly, M., & Turk-Browne, N. B. (2016). Attention promotes episodic encoding by stabilizing hippocampal representations. *Proceedings of the National Academy of Sciences, 113*, E420-E429.

54. Aly, M., & Turk-Browne, N. B. (2016). Attention stabilizes representations in the human hippocampus. *Cerebral Cortex, 26*, 783-796.

53. Córdova, N. I., Tompary, A., & Turk-Browne, N. B. (2016). Attentional modulation of background connectivity between ventral visual cortex and the medial temporal lobe. *Neurobiology of Learning and Memory, 134*, 115-122.

52. Fan, J. E., Hutchinson, J. B., & Turk-Browne, N. B. (2016). When past is present: Substitutions of long-term memory for sensory evidence in perceptual judgments. *Journal of Vision, 16*, 1-12.

51. Fan, J. E., & Turk-Browne, N. B. (2016). Incidental biasing of attention from visual long-term memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 42*, 970-977.

50. Fan, J. E., Turk-Browne, N. B., & Taylor, J. A. (2016). Error-driven learning in statistical summary perception. *Journal of Experimental Psychology: Human Perception and Performance, 42*, 266-280.

49. Hindy, N. C., Ng, F. Y., & Turk-Browne, N. B. (2016). Linking pattern completion in the hippocampus to predictive coding in visual cortex. *Nature Neuroscience, 19*, 665-667.

48. Hindy, N. C., & Turk-Browne, N. B. (2016). Action-based learning of multistate objects in the medial temporal lobe. *Cerebral Cortex, 26*, 1853–1865.

47. Hutchinson, J. B., Pak, S. S., & Turk-Browne, N. B. (2016). Biased competition during long-term memory formation. *Journal of Cognitive Neuroscience, 28*, 187-197.

46. Johnson, M. A., Turk-Browne, N. B., & Goldberg, A. E. (2016). Neural systems involved in processing novel linguistic constructions and their visual referents. *Language, Cognition and Neuroscience, 31*, 129-144.

45. Schapiro, A. C., Turk-Browne, N. B., Norman, K. A., & Botvinick, M. M. (2016). Statistical learning of temporal community structure in the hippocampus. *Hippocampus, 26*, 3-8.

44. Bays, B. C., Turk-Browne, N. B., & Seitz, A. R. (2015). Dissociable behavioural outcomes of visual statistical learning. *Visual Cognition, 23*, 1072-1097.

43. deBettencourt, M. T., Cohen, J. D., Lee, R. F., Norman, K. A., & Turk-Browne, N. B. (2015). Closed-loop training of attention with real-time brain imaging. *Nature Neuroscience, 18*, 470-475.

42. Schnyer, D. M., *et al.* (2015). Neurocognitive therapeutics: From concept to application in the treatment of negative attention bias. *Biology of Mood & Anxiety Disorders, 5*, 1.

41. Seidl-Rathkopf, K. N., Turk-Browne, N. B., & Kastner, S. (2015). Automatic guidance of attention during real-world visual search. *Attention, Perception, & Psychophysics, 77*, 1881-1895.

40. Wang, Y., Li, K., Cohen, J. D., & Turk-Browne, N. B. (2015). Full correlation matrix analysis (FCMA): An unbiased method for task-related functional connectivity. *Journal of Neuroscience Methods, 251*, 108-119.

39. Kim, G., Lewis-Peacock, J. A., Norman, K. A., & Turk-Browne, N. B. (2014). Pruning of memories by context-based prediction error. *Proceedings of the National Academy of Sciences, 111*, 8997-9002.

38. Kool, W., Conway, A. R. A., & Turk-Browne, N. B. (2014). Sequential dynamics in visual short-term memory. *Attention, Perception, & Psychophysics, 76*, 1885-1901.

37. Schapiro, A. C., Gregory, E., Landau, B., McCloskey, M., & Turk-Browne, N. B. (2014). The necessity of the medial temporal lobe for statistical learning. *Journal of Cognitive Neuroscience, 26*, 1736-1747.

36. Stoeckel, L., *et al.* (2014). Optimizing real time fMRI neurofeedback for therapeutic discovery and development. *NeuroImage: Clinical, 5*, 245-255.

35. Fan, J. E., & Turk-Browne, N. B. (2013). Internal attention to features in visual short-term memory guides object learning. *Cognition, 129*, 292-308.

34. Mende-Siedlecki, P., Verosky, S. C., Turk-Browne, N. B., & Todorov, A. (2013). Robust selectivity for faces in the human amygdala in the absence of expressions. *Journal of Cognitive Neuroscience, 25*, 2086–2106.

33. Schapiro, A. C., Rogers, T. T., Cordova, N. I., Turk-Browne, N. B., & Botvinick, M. M. (2013). Neural representations of events arise from temporal community structure. *Nature Neuroscience, 16*, 486-492.

32. Shohamy, D., & Turk-Browne, N. B. (2013). Mechanisms for widespread hippocampal involvement in cognition. *Journal of Experimental Psychology: General, 142*, 1159-1170.

31. Turk-Browne, N. B. (2013). Functional interactions as big data in the human brain. *Science, 342*, 580-584.

30. Turk-Browne, N. B., Golomb, J. D., & Chun, M. M. (2013). Complementary attentional components of successful memory encoding. *NeuroImage, 66*, 553-562.

29. Verosky, S. C., Todorov, A., & Turk-Browne, N. B. (2013). Representations of individuals in ventral temporal cortex defined by faces and biographies. *Neuropsychologia, 51*, 2100-2108.

28. Zhao, J., Al-Aidroos, N., & Turk-Browne, N. B. (2013). Attention is spontaneously biased toward regularities. *Psychological Science, 24*, 667-677.

27. Al-Aidroos, N., Said, C. P., & Turk-Browne, N. B. (2012). Top-down attention switches coupling between low-level and high-level areas of human visual cortex. *Proceedings of the National Academy of Sciences, 109*, 14675-14680.

26. Hutchinson, J. B., & Turk-Browne, N. B. (2012). Memory-guided attention: Control from multiple memory systems. *Trends in Cognitive Sciences, 16*, 576-579.

25. Norman-Haignere, S. V., McCarthy, G., Chun, M. M., & Turk-Browne, N. B. (2012). Category-selective background connectivity in ventral visual cortex. *Cerebral Cortex, 22*, 391-402.

24. Schapiro, A. C., Kustner, L. V., & Turk-Browne, N. B. (2012). Shaping of object representations in the human medial temporal lobe based on temporal regularities. *Current Biology, 22*, 1622-1627.

23. Turk-Browne, N. B., Simon, M. G., & Sederberg, P. B. (2012). Scene representations in parahippocampal cortex depend on temporal context. *Journal of Neuroscience, 32*, 7202-7207.

22. Verosky, S. C. & Turk-Browne, N. B. (2012). Representations of facial identity in the left hemisphere require right hemisphere processing. *Journal of Cognitive Neuroscience, 24*, 1006-1017.

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8. Busch, E. L., *et al*. Multi-view manifold learning of human brain state trajectories. https://doi.org/10.1101/2022.05.03.490534

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Proceedings

9. Huang, J., *et al.* (2022). Learning shared neural manifolds from multi-subject fMRI data. Paper on presentation at *IEEE Machine Learning for Signal Processing*.

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2. Fan, J.E., Turk-Browne, N. B., & Taylor, J. A. (2013). Feedback driven tuning of statistical summary representations. Paper on presentation at *Object Perception, Attention, and Memory* published in *Visual Cognition, 21*, 685-689.

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Book Chapters

11. Sherman, B. E., & Turk-Browne, N. B. (in press). Attention and memory. Chapter in M. J. Kahana & A. D. Wagner (Eds.), *Handbook of Human Memory*. Oxford University Press.

10. Graves, K. N., & Turk-Browne, N. B. (2022). Spatial statistics in perception, learning, and navigation. Chapter in T. Brady & W. Bainbridge (Eds.), *Visual Memory* (pp. 119-133). Routledge.

9. Wammes, J. D., Lin, Q., Norman, K. A., & Turk-Browne, N. B. (2021). Understanding memory using real-time fMRI. Chapter in M. Hampson (Ed.), *fMRI Neurofeedback* (pp. 107-130). Elsevier.

8. Shohamy, D. & Turk-Browne, N. B. (2021). Imaging and behavior. New chapter in E. R. Kandel, et al. (Eds.), *Principles of Neural Science, Sixth Edition*. McGraw Hill.

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Conference Presentations (since 2010)

Yates, T., & Turk-Browne, N. B. (Jul, 2022). Mechanisms of early cognition through awake, task-based brain imaging in infants. Talk at *International Congress of Infant Studies*, Ottawa, Canada.

Caplette, L., & Turk-Browne, N. B. (May, 2022). Using deep image synthesis and behavior to investigate the format of visual representations. Poster at *Vision Sciences Society*, St. Pete Beach, FL.

Graves, K. N., Sherman, B. E., & Turk-Browne, N. B. (May, 2022). Distributional biases in spatial memory during virtual navigation. Poster at *Vision Sciences Society*, St. Pete Beach, FL.

Iordan, M. C., Ritvo, V. J. H., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (May, 2022). Sculpting new visual concepts into the human brain. Talk at *Vision Sciences Society*, St. Pete Beach, FL.

Sherman, B. E., *et al.* (May, 2022). Shared and distinct representations of visual regularities across levels of abstraction. Poster at *Vision Sciences Society*, St. Pete Beach, FL.

Yates, T., Ellis, C., & Turk-Browne, N. B. (May, 2022). Neural selectivity for faces in human infants after pandemic lockdown. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
Aljisji, A., Sherman, B. E., Huberdeau, D. M., Sivaraju, A., Turk-Browne, N. B., & Damisah, E. C. (Nov, 2021). Multimodal interrogation of statistical learning and episodic memory in human epilepsy. Presentation at *Society for Neuroscience* (virtual).
Busch, E. L., *et al.* (Nov, 2021). Manifold learning to capture brain-state trajectories in fMRI. Presentation at *Society for Neuroscience* (virtual).
Ellis, C. T., Yates, T. S., Skalaban, L. J., Bracher, A. J., & Turk-Browne, N. B. (Nov, 2021). Exploring the hierarchical organization of the infant visual system with model-based representational similarity. Presentation at *Society for Neuroscience* (virtual).
Fel, J. T., Ellis, C. T., & Turk-Browne, N. B. (Nov, 2021). Automated segmentation outperforms manual segmentation of the infant hippocampus. Presentation at *Society for Neuroscience* (virtual).
Graves, K., N., Sherman, B. E., Quraishi, I. H., Damisah, E. C., & Turk-Browne, N. B. (Nov, 2021). Medial temporal codes for distorted spatial memory during virtual navigation. Presentation at *Society for Neuroscience* (virtual).
Iordan, M., Ritvo, V. J. H., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (Nov, 2021). Sculpting new visual concepts into the human brain. Presentation at *Society for Neuroscience* (virtual).
Li, P., Wang, Y., Turk-Browne, N. B., & Hutchinson, B. (Nov, 2021). Network configurations underlying external versus internal attention. Presentation at *Society for Neuroscience* (virtual).
Lin, Q., Shaikh, N., & Turk-Browne, N. B. (Nov, 2021). Predicting real-world mathematical proficiency and learning from brain activity. Presentation at *Society for Neuroscience* (virtual).
Sherman, B. E., *et al.* (Nov, 2021). Mechanisms and dynamics of statistical learning across levels of abstraction. Presentation at *Society for Neuroscience* (virtual).
Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (Nov, 2021). Episodic encoding in the infant brain revealed through subsequent memory. Presentation at *Society for Neuroscience* (virtual).
Yates, T., Skalaban, L., Ellis, C., Bracher, A., Baldassano, C., & Turk-Browne, N. B. (Sep, 2021). How infants carve up continuous experience into neural events. Poster at *FLUX Congress*, virtual.
Caplette, L., & Turk-Browne, N. B. (May, 2021). A computational framework for reconstructing mental representations of natural visual concepts. Talk at *Vision Sciences Society*, virtual.
Ellis, C. T., Yates, T. S., Arcaro, M. J., & Turk-Browne, N. B. (May, 2021). Prediction of retinotopic organization in infant visual cortex from movies. Poster at *Vision Sciences Society*, virtual.
Sherman, B. E., *et al.* (May, 2021). Dynamics of category-level statistical learning from intracranial recordings in visual cortex. Talk at *Vision Sciences Society*, virtual.
Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (May, 2021). Counting sheep: Perceptual narrowing of other-species faces in infant fMRI. Poster at *Vision Sciences Society*, virtual.
Ellis, C., Skalaban, L., Yates, T., Córdova, N., Bejjanki, V., Turk-Browne, N. B. (Jul, 2020). Hippocampal evidence of statistical learning from fMRI with awake infants. Poster at *International Congress of Infant Studies*, virtual.
Ellis, C., Skalaban, L., Yates, T., & Turk-Browne, N. B. (Jul, 2020). Engagement of frontoparietal cortex in attention behavior from fMRI with awake infants. Poster at *International Congress of Infant Studies*, virtual.
Yates, T., Ellis, C., & Turk-Browne, N. B. (Jul, 2020). Counting sheep: Perceptual narrowing of other-species faces in infant fMRI. Poster at *International Congress of Infant Studies*, virtual.
Ellis, C., Yates, T., Skalaban, L., Bejjanki, V., Arcaro, M., & Turk-Browne, N. B. (Jun, 2020). Retinotopic mapping with fMRI in awake, behaving infants. Poster at *Vision Sciences Society*, virtual.
Graves, K. N., Sherman, B. E., & Turk-Browne, N. B. (Jun, 2020). Closer than it appeared: Distorted spatial memory during virtual navigation. Poster at *Vision Sciences Society*, virtual.
Iordan, M. C., Ritvo, V. J. H., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (Jun, 2020). Creating visual categories with closed-loop real-time fMRI neurofeedback. Talk at *Vision Sciences Society*, virtual.
Sherman, B. E., & Turk-Browne, N. B. (Jun, 2020). Visual statistical learning distorts feature memory. Poster at *Vision Sciences Society*, virtual.
Wammes, J., Peng, K., Norman, K., & Turk-Browne, N. B. (Jun, 2020). Synthesizing images from deep neural networks to map the hierarchy of feature complexity in human visual cortex. Poster at *Vision Sciences Society*, virtual.

Ellis, C., Skalaban, L. J., Yates, T. S., & Turk-Browne, N. B. (Oct, 2019). Attentional engagement of frontoparietal cortex in infant fMRI. Poster at *Society for Neuroscience*, Chicago, IL.
Graves, K. N., Antony, J. W., & Turk-Browne, N. B. (Oct, 2019). Online pattern extraction during spatial navigation. Poster at *Society for Neuroscience*, Chicago, IL.
Henin, S., *et al.* (Oct, 2019). Statistical learning shapes neural sequence representations. Poster at *Society for Neuroscience*, Chicago, IL.
Huberdeau, D. M., Benjamin, C. F., Spencer, D. D., Gerrard, J. L., McCarthy, G., & Turk-Browne, N. B. (Oct, 2019). Intracranial evidence for retrieval of movement goals by the hippocampus. Poster at *Society for Neuroscience*, Chicago, IL.
Kumar, M., Ellis, C. T., Lu, Q., Zhang, H., Ramadge, P. J., Turk-Browne, N. B., & Norman, K. A. (Oct, 2019). BrainIAK education: User-friendly tutorials for advanced, computationally-intensive fMRI analysis. Poster at *Society for Neuroscience*, Chicago, IL.
Kumar, M., Turk-Browne, N. B., & Norman, K. A. (Oct, 2019). The impact of predictability on memory representations. Poster at *Society for Neuroscience*, Chicago, IL.
McDevitt, E. A., Kim, G., Turk-Browne, N. B., & Norman, K. A. (Oct, 2019). Stimulus prediction in the hippocampus resulting from rapid statistical learning. Poster at *Society for Neuroscience*, Chicago, IL.
Sherman, B., Ellis, C., Benjamin, C. F., Gerrard, J. L., Spencer, D. D., & Turk-Browne, N. B. (Oct, 2019). Dynamic interactions between statistical learning and episodic memory. Poster at *Society for Neuroscience*, Chicago, IL.
Wammes, J. D., Yamins, D. L. K., Norman, K. A., & Turk-Browne, N. B. (Oct, 2019). Model-based multivariate mapping of the visual hierarchy with image synthesis. Poster at *Society for Neuroscience*, Chicago, IL.
Yates, T. S., Skalaban, L. J., Ellis, C. T., & Turk-Browne, N. B. (Oct, 2019). Neural approach for understanding event segmentation in early development. Poster at *Society for Neuroscience*, Chicago, IL.
Ellis, C., Skalaban, L. J., Yates, T. S., Bejjanki, V. R., Turek, J. S., & Turk-Browne, N. B. (May, 2019). Decoding the contents of the developing visual system with fMRI in awake infants. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
Graves, K. N., & Turk-Browne, N. B. (May, 2019). More than statistics: Active hypothesis testing during visual learning. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Iordan, M. C., Ritvo, V. J. H., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (May, 2019). Using closed-loop real-time fMRI neurofeedback to induce neural plasticity and influence perceptual similarity. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Sherman, B. E., Turk-Browne, N. B. (May, 2019). Regularity-induced attentional biases and their mnemonic consequences. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Wammes, J. D., Norman, K. A., & Turk-Browne, N. B. (May, 2019). Synthesizing images with deep neural networks to manipulate representational similarity and induce representational change. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Ellis, C., Skalaban, L., Turek, J. S., Bejjanki, V. R., & Turk-Browne, N. B. (Nov, 2018). Discovering and aligning cognitive functions during infant fMRI. Poster at *Society for Neuroscience*, San Diego, CA.
Huberdeau, D. M., & Turk-Browne, N. B. (Nov, 2018). Memory recall and statistical learning during movement preparation. Poster at *Society for Neuroscience*, San Diego, CA.
Iordan, M., Ritvo, V. J., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (Nov, 2018). Using closed loop real-time fMRI neurofeedback to induce neural plasticity and influence perceptual similarity. Poster at *Society for Neuroscience*, San Diego, CA.
Kumar, M., Ellis, C., Ramadge, P. J., Norman, K. A., & Turk-Browne, N. B. (Nov, 2018). Brainiak education: User-friendly tutorials for advanced, computationally-intensive fMRI analysis. Poster at *Society for Neuroscience*, San Diego, CA.
Kumar, S., Ellis, C., O'Connell, T., Tang, Z., Chun, M. M., & Turk-Browne, N. B. (Nov, 2018). Searchlight analysis over functional rather than anatomical space reveals higher representational similarity with deep learning models. Poster at *Society for Neuroscience*, San Diego, CA.
Rait, L., Kok, P., & Turk-Browne, N. B. (Nov, 2018). Distinct hippocampal representations of predicted features and objects. Poster at *Society for Neuroscience*, San Diego, CA.
Sherman, B., & Turk-Browne, N. B. (Nov, 2018). How does the hippocampus simultaneously learn episodes and regularities? Poster at *Society for Neuroscience*, San Diego, CA.

Skalaban, L., Ellis, C. T., Turek, J. S., & Turk-Browne, N. B. (Nov, 2018). Probing episodic memory reinstatement with continuous stimuli. Poster at *Society for Neuroscience*, San Diego, CA.
Wammes, J. D., Norman, K. A., & Turk-Browne, N. B. (Nov, 2018). Impact of representational overlap on learning-induced representational change. Poster at *Society for Neuroscience*, San Diego, CA.
Avery, E., Hindy, N. C., & Turk-Browne, N. B. (May, 2018). Interaction of visual and semantic features in action-based prediction. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Ellis, C. T., Skalaban, L. J., Cordova, N. I., Turek, J. S., Bejjanki, V. R., & Turk-Browne, N. B. (May, 2018). Investigating the development of the human visual system with fMRI in awake, behaving infants. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Iordan, M. C., Ritvo, V. J. H., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (May, 2018). Inducing neural plasticity and perceptual similarity via real-time fMRI neurofeedback. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
Kok, P., Rait, L., & Turk-Browne, N. B. (May, 2018). Distinct neural sources of expectations about features and objects. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Wammes, J. D., Fan, J., Lee, R., Gunn, J., Yamins, D., Norman, K., & Turk-Browne, N. (May, 2018). Changing object representations during visual production training. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Capota, M., Willke, T. L., Norman, K., Cohen, J. D., & Turk-Browne, N. B. (Nov, 2017). Brain imaging analysis kit: Advanced fMRI analysis at scale. Poster at *Society for Neuroscience*, Washington, DC.
Ellis, C. T., Skalaban, L. J., Cordova, N. I., Bejjanki, V. R., & Turk-Browne, N. B. (Nov, 2017). fMRI with awake, behaving infants: Theoretical impact. Poster at *Society for Neuroscience*, Washington, DC.
Fan, J. E., Yamins, D., Norman, K., & Turk-Browne, N. B. (Nov, 2017). Consequences of visual production training on object representations. Dynamic poster at *Society for Neuroscience*, Washington, DC.
Iordan, M., Ritvo, V. J. H., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (Nov, 2017). Inducing neural plasticity and perceptual similarity via real-time fMRI neurofeedback. Poster at *Society for Neuroscience*, Washington, DC.
Kok, P., & Turk-Browne, N. B. (Nov, 2017). The hippocampus as a source of cross-modal predictions. Talk at *Society for Neuroscience*, Washington, DC.
Skalaban, L., Ellis, C. T., Cordova, N. I., Turek, J. S., Bejjanki, V. R., & Turk-Browne, N. B. (Nov, 2017). fMRI with awake, behaving infants: Methodological considerations. Poster at *Society for Neuroscience*, Washington, DC.
Suo, D., *et al.* (Nov, 2017). Real-time fMRI analysis in the cloud. Poster at *Society for Neuroscience*, Washington, DC.
Bu, J., Radulescu, A., Turk-Browne, N. B., & Niv, Y. (May, 2017). Feature-based reward learning biases dimensional attention. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
deBettencourt, M. T., Turk-Browne, N. B., & Norman, K. A. (May, 2017). Enhanced perceptual processing of visual context benefits later memory. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Fan, J., Yamins, D., & Turk-Browne, N. (May, 2017). Visual production induces categorical perception. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Hindy, N. C., Avery, E. W., & Turk-Browne, N. B. (May, 2017). Semantic knowledge and action-based visual prediction. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Kok, P., & Turk-Browne, N. B. (May, 2017). Prediction facilitates complex shape processing in visual cortex. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
Aly, M., Chen, J., Turk-Browne, N. B., & Hasson, U. (Nov, 2016). Narrative coherence and temporal structure in the posterior medial network. Poster at *Society for Neuroscience*, San Diego, CA.
Antony, J. W., Baldassano, C., Aly, M., Norman, K. A., & Turk-Browne, N. B. (Nov, 2016). Reconstructing spatial location and forward planning during navigation. Poster at *Society for Neuroscience*, San Diego, CA.
Bornstein, A. M., Aly, M., Feng, S. F., Turk-Browne, N. B., Norman, K. A., & Cohen, J. D. (Nov, 2016). First you remember, then you see: Dynamic sampling from learned associations biases perceptual inference. Poster at *Society for Neuroscience*, San Diego, CA.
deBettencourt, M. T., Turk-Browne, N. B., & Norman, K. A. (Nov, 2016). Externalizing the internal process of context reinstatement through closed-loop neurofeedback. Poster at *Society for Neuroscience*, San Diego, CA.

Hindy, N. C., Avery, E. W., & Turk-Browne, N. B. (Nov, 2016). Action-based prediction for known and novel associations between real-world objects. Poster at *Society for Neuroscience*, San Diego, CA.
Hutchinson, J., Wang, Y., & Turk-Browne, N. B. (Nov, 2016). Disentangling remembered and perceived information in the full correlation matrix of human brain activity. Poster at *Society for Neuroscience*, San Diego, CA.
Kim, G., Norman, K. A., & Turk-Browne, N. B. (Nov, 2016). Differentiation of incorrectly predicted memories after restudy. Poster at *Society for Neuroscience*, San Diego, CA.
McDougle, S. D., Turk-Browne, N. B., & Taylor, J. A. (Nov, 2016). Recalibration, heuristics, and learning de novo: On the multiple processes of sensorimotor learning and the role of the medial temporal lobe. Poster at *Society for Neuroscience*, San Diego, CA.
Schapiro, A. C., Turk-Browne, N. B., Botvinick, M. M., & Norman, K. A. (Nov, 2016). Complementary learning systems within the hippocampus: A neural network modeling approach to reconciling episodic memory with statistical learning. Poster at *Society for Neuroscience*, San Diego, CA.
deBettencourt, M. T., Norman, K. A., & Turk-Browne, N. B. (Jul, 2016). Externalizing mental context reinstatement with closed-loop neurofeedback to support memory retrieval. Poster at *International Conference on Memory*, Budapest, Hungary.
deBettencourt, M. T., Norman, K. A., & Turk-Browne, N. B. (May, 2016). Lapses of sustained attention cause later forgetting in visual long-term memory. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
Ellis, C. T., Harding, P., Fan, J. E., & Turk-Browne, N. B. (May, 2016). How temporal context predicts eye gaze for dynamic stimuli. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Fan, J. E., Yamins, D. L. K., & Turk-Browne, N. B. (May, 2016). Dynamic visual feedback is sufficient to improve drawing. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Higuchi, Y., & Turk-Browne, N. B. (May, 2016). Eye movements determine which of multiple regularities are acquired during statistical learning. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Hutchinson, J. B., Wang, Y., & Turk-Browne, N. B. (May, 2016). Overlap and separation of remembered and perceived visual information in the human medial temporal lobe. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Hindy, N. C., Ng, F. Y., & Turk-Browne, N. B. (May, 2016). Action-based prediction in the hippocampus. Talk at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Kim, G., Turk-Browne, N. B., & Norman, K. A. (May, 2016). Incorrectly predicted memories become differentiated after restudy. Talk at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Schlichting, M. L., Guarino, K. F., Schapiro, A. C., Turk-Browne, N. B., & Preston, A. R. (May, 2016). Structural development of hippocampus and medial prefrontal cortex is related to statistical learning and inference. Poster at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Aly, M., & Turk-Browne, N. B. (Oct, 2015). Attention promotes episodic encoding by stabilizing hippocampal representations. Talk at *Society for Neuroscience*, Chicago, IL.
Bejjanki, V. R., & Turk-Browne, N. B. (Oct, 2015). Examining changes in functional connectivity during human perceptual learning with population receptive fields. Poster at *Society for Neuroscience*, Chicago, IL.
Bornstein, A. M., Aly, M., Feng, S. F., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (Oct, 2015). Memory-guided perception: Sampling from past experience during perceptual inference. Poster at *Society for Neuroscience*, Chicago, IL.
deBettencourt, M. T., Turk-Browne, N. B., & Norman, K. A. (Oct, 2015). Reinstating mental context with closed-loop neurofeedback. Poster at *Society for Neuroscience*, Chicago, IL.
Guarino, K. F., Schlichting, M. L., Schapiro, A. C., Turk-Browne, N. B., & Preston, A. R. (Oct, 2015). Development of medial prefrontal cortex is related to statistical learning and inference. Poster at *Society for Neuroscience*, Chicago, IL.
Hindy, N. C., Ng, F. Y., & Turk-Browne, N. B. (Oct, 2015). Action-based predictive coding from different timescales of memory. Talk at *Society for Neuroscience*, Chicago, IL.
Hutchinson, J., & Turk-Browne, N. B. (Oct, 2015). Object-based competition during long-term memory encoding. Talk at *Society for Neuroscience*, Chicago, IL.
Kim, G., Norman, K. A., & Turk-Browne, N. B. (Oct, 2015). Prior contextual associations are weakened based on competition from new contexts. Talk at *Society for Neuroscience*, Chicago, IL.
Panichello, M. F., & Turk-Browne, N. B. (Oct, 2015). Neural fusion of sensation and expectation. Poster at *Society for Neuroscience*, Chicago, IL.

Aly, M., & Turk-Browne, N. B. (May, 2015). Hippocampal representations of attentional state predict the formation of visual memories. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
Cordova, N. I., Tompary, A., & Turk-Browne, N. B. (May, 2015). Attentional switching of connectivity between visual and memory systems. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
deBettencourt, M. T., Norman, K. A., & Turk-Browne, N. B. (May, 2015). Relating sustained attention to visual long-term memory. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Fan, J. E., Yamins, D. L. K., & Turk-Browne, N. B. (May, 2015). How drawing shapes object representations. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Hindy, N. C., Ng, F. Y., & Turk-Browne, N. B. (May, 2015). Neural sources of prediction in visual cortex. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Kim, G., Norman, K. A., & Turk-Browne, N. B. (May, 2015). Storing and updating non-visual features in visual long-term memory. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Aly, M., & Turk-Browne, N. B. (May, 2015). Hippocampal representations of attentional state predict the formation of episodic memory. Poster at *Context and Episodic Memory Symposium*, Philadelphia, PA.
deBettencourt, M. T., Turk-Browne, N. B., & Norman, K. A. (May, 2015). Using real-time fMRI neurofeedback to manipulate mental context. Talk at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Kim, G., Norman, K. A., & Turk-Browne, N. B. (May, 2015). How context memories are updated based on competition. Poster at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Bejjanki, V. R., & Turk-Browne, N. B. (Nov, 2014). Background connectivity in human visual cortex during perceptual learning. Poster at *Society for Neuroscience*, Washington, DC.
Cordova, N. I., Aly, M., & Turk-Browne, N. B. (Nov, 2014). Focusing on what matters: Modulation of the human hippocampus by relational attention. Poster at *Society for Neuroscience*, Washington, DC.
deBettencourt, M. T., Turk-Browne, N. B., & Norman, K. A. (Nov, 2014). Manipulating mental context in a memory task using real-time fMRI. Poster at *Society for Neuroscience*, Washington, DC.
Hutchinson, J., Wang, Y., & Turk-Browne, N. B. (Nov, 2014). Decoding the locus of attention from the full correlation matrix of the human brain. Poster at *Society for Neuroscience*, Washington, DC.
Kim, J. G., Gregory, E., Landau, B., McCloskey, M., Turk-Browne, N. B., & Kastner, S. (Nov, 2014). Repetition effects in ventral visual cortex after bilateral hippocampal loss. Poster at *Society for Neuroscience*, Washington, DC.
Schapiro, A. C., Norman, K. A., Turk-Browne, N. B., & Botvinick, M. M. (Nov, 2014). Rapid learning of complex temporal regularities in the hippocampus: Evidence from fMRI and a neural network model. Talk at *Society for Neuroscience*, Washington, DC.
Schlichting, M. L., Guarino, K. F., Schapiro, A. C., Turk-Browne, N. B., & Preston, A. R. (Nov, 2014). Structural development of hippocampal subfields is related to statistical learning and inference. Poster at *Society for Neuroscience*, Washington, DC.
Schnyer, D. M., *et al.* (Nov, 2014). Development of real-time fMRI neurofeedback attention training for depression. Poster at *Society for Neuroscience*, Washington, DC.
Manning, J. R., *et al.* (Jun, 2014). Hierarchical topographic factor analysis. Talk at *International Workshop on Pattern Recognition in Neuroimaging*, Tübingen, Germany.
Aly, M., & Turk-Browne, N. B. (May, 2014). Top-down attention modulates representational stability in the medial temporal lobe. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Everaert, J., Fan, J. E., Koster, E. H. W., & Turk-Browne, N. B. (May, 2014). Attentional capture from emotional associations in long-term memory. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Fan, J. E., & Turk-Browne, N. B. (May, 2014). Feature distributions constrain visual object perception. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Hutchinson, J. B., & Turk-Browne, N. B. (May, 2014). Guidance of object-based attention from neural signatures of memory. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Hindy, N. C., Ng, F. Y., & Turk-Browne, N. B. (May, 2014). Linking predictive coding in visual cortex to object representations in the medial temporal lobe. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Pak, S. S., Hutchinson, J. B., & Turk-Browne, N. B. (May, 2014). Intuitive statistics from graphical representations of data. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
Panichello, M. F., & Turk-Browne (May, 2014). Sensory and expectation cues are fused during perception. Poster at *Vision Sciences Society*, St. Pete Beach, FL.

Zhao, J., & Turk-Browne, N. B. (May, 2014). The timecourse of the attentional bias to regularities. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
Aly, M., & Turk-Browne, N. B. (May, 2014). Attention stabilizes representations in the human hippocampus. Talk at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Jackson-Hanen, V. E., Tompary, A., deBettencourt, M. T., & Turk-Browne, N. B. (May, 2014). Training of visual categories through real-time fMRI neurofeedback. Poster at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Schapiro, A. C., Norman, K. A., Turk-Browne, N. B., & Botvinick, M. M. (May, 2014). Learning of complex event structure in the hippocampus. Poster at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Fan, J. E., Hutchinson, J. B., & Turk-Browne, N. B. (Nov, 2013). Incidental expression of visual long-term memory in online perception. Poster at *Psychonomic Society*, Toronto, ON.
Kim, G., Lewis-Peacock, J. A., Norman, K. A., & Turk-Browne, N. B. (Nov, 2013). Statistical learning of new relationships depends on predictive history. Poster at *Psychonomic Society*, Toronto, ON.
Fan, J. E., Turk-Browne, N. B., & Taylor, J. A. (Nov, 2013). Feedback-driven tuning of statistical summary representations. Talk at *Object Perception, Attention, and Memory* meeting, Toronto, ON.
Córdova, N. I., Tompary, A., & Turk-Browne, N. B. (Nov, 2013). Attention modulates background connectivity between ventral visual cortex and the medial temporal lobe. Poster at *Society for Neuroscience*, San Diego, CA.
deBettencourt, M. T., Cohen, J. D., Lee, R. F., Norman, K. A., & Turk-Browne, N. B. (Nov, 2013). Closed-loop training of sustained attention with real-time fMRI neurofeedback. Talk at *Society for Neuroscience*, San Diego, CA.
Hindy, N. C., & Turk-Browne, N. B. (Nov, 2013). Action-based binding of object states in human medial temporal lobe. Poster at *Society for Neuroscience*, San Diego, CA.
Hutchinson, J. B., & Turk-Browne, N. B. (Nov, 2013). Interacting signals of memory during competitive encoding. Poster at *Society for Neuroscience*, San Diego, CA.
Jackson-Hanen, V. E., Tompary, A., deBettencourt, M. T., & Turk-Browne, N. B. (Nov, 2013). Training of category selectivity through real-time fMRI neurofeedback. Poster at *Society for Neuroscience*, San Diego, CA.
Schapiro, A. C., Gregory, E., Landau, B., McCloskey, M., & Turk-Browne, N. B. (Nov, 2013). The necessity of the medial temporal lobe for statistical learning. Poster at *Society for Neuroscience*, San Diego, CA.
Aly, M., & Turk-Browne, N. B. (Nov, 2013). Attentional states in the medial temporal lobe memory system. Poster at *Learning to Attend, Attending to Learn* workshop, San Diego, CA.
deBettencourt, M. T., Cohen, J. D., Lee, R. F., Norman, K. A., & Turk-Browne, N. B. (Nov, 2013). Learning to sustain attention with real-time fMRI neurofeedback. Poster at *Learning to Attend, Attending to Learn* workshop, San Diego, CA.
Al-Aidroos, N., Tompary, A., & Turk-Browne, N. B. (May, 2013). Attending to what and where: Background connectivity integrates category-based and spatial attention. Talk at *Vision Sciences Society*, Naples, FL.
Bays, B. C., Turk-Browne, N. B., & Seitz, A. R. (May, 2013). Statistical learning, a singular process? Dissociating behavioral outcomes of visuo-temporal statistical learning. Poster at *Vision Sciences Society*, Naples, FL.
deBettencourt, M. T., Lee, R. F., Cohen, J. D., Norman, K. A., & Turk-Browne, N. B. (May, 2013). Externalizing internal states with real-time neurofeedback to train visual attention. Poster at *Vision Sciences Society*, Naples, FL.
Fan, J. E., & Turk-Browne, N. B. (May, 2013). Visual long-term memory for objects biases perceptual attention. Poster at *Vision Sciences Society*, Naples, FL.
Hindy, N. C., & Turk-Browne, N. B. (May, 2013). Action-specific predictive coding of object states. Poster at *Vision Sciences Society*, Naples, FL.
Kim, G., Lewis-Peacock, J. A., Norman, K. A., & Turk-Browne, N. B. (May, 2013). Pruning of visual memories based on contextual prediction error. Talk at *Vision Sciences Society*, Naples, FL.
Kim, J. G., Gregory, E., Landau, B., McCloskey, M., Kastner, S., & Turk-Browne, N. B. (May, 2013). Ventral visual selectivity and adaptation in amnesia. Poster at *Vision Sciences Society*, Naples, FL.
Mende-Siedlecki, P., Verosky, S. C., Turk-Browne, N. B., & Todorov, A. (May, 2013). Robust selectivity for faces in the human amygdala. Poster at *Vision Sciences Society*, Naples, FL.

Seidl, K. N., Turk-Browne, N. B., & Kastner, S. (May, 2013). Capture by object exemplars during category-based search of real-world scenes. Poster at *Vision Sciences Society*, Naples, FL.
Verosky, S. C., Turk-Browne, N. B., & Todorov, A. (May, 2013). Social group knowledge biases face perception. Poster at *Vision Sciences Society*, Naples, FL.
Wang, Y., Li, K., Charikar, M., Cohen, J. D., & Turk-Browne, N. B. (May, 2013). What you find depends on how you look: Category selectivity in frontal cortex revealed by whole-brain correlation analysis. Poster at *Vision Sciences Society*, Naples, FL.
Zhao, J., Goldfarb, L., & Turk-Browne, N. B. (May, 2013). When numbers and statistics collide: Competition between numerosity perception and statistical learning. Talk at *Vision Sciences Society*, Naples, FL.
Kim, G., Lewis-Peacock, J. A., Norman, K. A., & Turk-Browne, N. B. (May, 2013). Pruning of visual memories based on contextual prediction error. Talk at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Schapiro, A. C., Gregory, E., Landau, B., McCloskey, M., & Turk-Browne, N. B. (May, 2013). The necessity of the medial temporal lobe for statistical learning. Talk at *Context and Episodic Memory Symposium*, Philadelphia, PA.
deBettencourt, M. T., Lee, R. F., Cohen, J. D., Norman, K. A., & Turk-Browne, N. B. (Oct, 2012). Decoding and training sustained attention with real-time fMRI. Poster at *Society for Neuroscience*, New Orleans, LA.
Hutchinson, J. B., Pak, S. S., & Turk-Browne, N. B. (Oct, 2012). Memory-guided attention: How prior experience influences encoding of novel information. Poster at *Society for Neuroscience*, New Orleans, LA.
Keung, W., Greene, A., Wang, Y., Li, K., Charikar, M., Turk-Browne, N. B., & Cohen, J. D. (Oct, 2012). Decoding task-specific representations from fMRI using hyperalignment and whole-brain correlation analysis. Poster at *Society for Neuroscience*, New Orleans, LA.
Kim, G., Lewis-Peacock, J. A., Norman, K. A., & Turk-Browne, N. B. (Oct, 2012). Context-based prediction and memory suppression. Poster at *Society for Neuroscience*, New Orleans, LA.
Mende-Siedlecki, P., Verosky, S. C., Turk-Browne, N. B., & Todorov, A. (Oct, 2012). Robust selectivity for faces in the human amygdala. Poster at *Society for Neuroscience*, New Orleans, LA.
Tompary, A., Al-Aidroos, N., & Turk-Browne, N. B. (Oct, 2012). Modulation of background connectivity in human visual cortex by spatial attention. Poster at *Society for Neuroscience*, New Orleans, LA.
Schapiro, A. C., Rogers, T. T., Cordova, N. I., Turk-Browne, N. B., & Botvinick, M. M. (July, 2012). Neural representations of events arise from temporal 'community' structure. Talk at *Neural Computation and Psychology* workshop, San Sebastián, Spain.
deBettencourt, M. T., Lee, R. F., Cohen, J. D., Norman, K. A., & Turk-Browne, N. B. (May, 2012). Real-time decoding and training of attention. Poster at *Vision Sciences Society*, Naples, FL.
Fan, J. E., & Turk-Browne, N. B. (May, 2012). Accessing visual memory distorts object representations. Talk at *Vision Sciences Society*, Naples, FL.
Hutchinson, J. B., Pak, S. S., & Turk-Browne, N. B. (May, 2012). When old meets new: Repetition enhances encoding of competing novel items. Poster at *Vision Sciences Society*, Naples, FL.
Zhao, J., Al-Aidroos, N., & Turk-Browne, N. B. (May, 2012). Attention is drawn spontaneously to regularities during statistical learning. Talk at *Vision Sciences Society*, Naples, FL.
Al-Aidroos, N., Said, C. P., & Turk-Browne, N. B. (Nov, 2011). Goal-directed attention switches background connectivity in human visual cortex. Talk at *Society for Neuroscience*, Washington, DC.
Johnson, M. A., Turk-Browne, N. B., & Goldberg, A. E. (Nov, 2011). The process of learning novel linguistic constructions revealed by functional neuroimaging. Poster at *Society for Neuroscience*, Washington, DC.
Schapiro, A. C., Kustner, L. V., & Turk-Browne, N. B. (Nov, 2011). Multi-voxel object representations in the human medial temporal lobe are shaped by incidental learning of temporal regularities. Talk at *Society for Neuroscience*, Washington, DC.
Verosky, S. C., Turk-Browne, N. B., & Todorov, A. (Nov, 2011). Person knowledge affects face representations in ventral temporal cortex. Poster at *Society for Neuroscience*, Washington, DC.
Kool, W., Conway, A. R. A., & Turk-Browne, N. B. (Nov, 2011). The sequential dynamics of visual short-term memory. Poster at *Psychonomic Society*, Seattle, WA.
Johnson, M. A., Turk-Browne, N. B., & Goldberg, A. E. (Sept, 2011). The process of learning novel linguistic constructions revealed by functional neuroimaging. Poster at *Architectures and Mechanisms for Language Processing*, Paris, France.

Al-Aidroos, N., Said, C. P., & Turk-Browne, N. B. (May, 2011). Top-down attention alters background connectivity between retinotopic and category-specific visual areas. Poster at *Vision Sciences Society*, Naples, FL.
Schapiro, A. C., Kustner, L. V., & Turk-Browne, N. B. (May, 2011). Contributions of visual and temporal similarity to statistical learning. Poster at *Vision Sciences Society*, Naples, FL.
Suttle, L. & Turk-Browne, N. B. (May, 2011). Visual benefits from auditory statistical learning: the case of reading. Poster at *Vision Sciences Society*, Naples, FL.
Turk-Browne, N. B., Sederberg, P. B., & Simon, M. G. (May, 2011). Visual representations of temporal context. Poster at *Vision Sciences Society*, Naples, FL.
Verosky, S. C. & Turk-Browne, N. B. (May, 2011). Facial identity information is transferred asymmetrically between hemispheres. Talk at *Vision Sciences Society*, Naples, FL.
Zhao, J., Ngo, N., McKendrick, R., & Turk-Browne, N. B. (May, 2011). Statistical summary perception interferes with statistical learning and vice versa. Poster at *Vision Sciences Society*, Naples, FL.
Schapiro, A. C., Kustner, L. V., & Turk-Browne, N. B. (May, 2011). Contributions of visual and temporal similarity to statistical learning. Poster at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Turk-Browne, N. B., Sederberg, P. B., & Simon, M. G. (May, 2011). Scene representations in parahippocampal cortex depend on temporal context. Talk at *Context and Episodic Memory Symposium*, Philadelphia, PA.
Verosky, S. C., Turk-Browne, N. B., & Todorov, A. (Mar, 2011). Person knowledge affects early neural representations of faces. Poster at *Opportunities/Challenges in Social Neuroscience*, Utrecht, Netherlands.
Turk-Browne, N. B., Sederberg, P. B., & Simon, M. G. (Nov, 2010). Visual representations of temporal context. Poster at *Society for Neuroscience*, San Diego, CA.
White, J. M., Zhao, J., Lee, R., Turk-Browne, N. B., & Osherson, D. (Nov, 2010). Visual cortex detects the amount of structure in novel abstract images. Poster at *Society for Neuroscience*, San Diego, CA.
Zhao, J., & Turk-Browne, N. B. (Aug, 2010). The perception of number from long-term memory. Talk at *Cognitive Science Society*, Portland, OR.
White, J. M., Zhao, J., Lee, R., Turk-Browne, N. B., & Osherson, D. (June, 2010). Visual cortex detects the amount of structure in novel abstract images. Poster at *Organization for Human Brain Mapping*, Barcelona.

Invited Colloquia

Psychological and Brain Sciences	Johns Hopkins University	Apr 2023
Neuroscience Seminar	Rockefeller University	Feb 2022
Psychology	University of Virginia	Dec 2021
Centre for Cognitive Neuroimaging	University of Glasgow	Oct 2021
Psychology	University of New South Wales	Jun 2021
Montreal Neurological Institute	McGill University	Apr 2021
Center for Brain Plasticity and Recovery	Georgetown University	Mar 2020
Center for Cognitive Neuroscience	Duke University	Jan 2020
Neurology Grand Rounds	Yale School of Medicine	Jun 2019
Cognitive Neuroscience Speaker Series	UC Riverside	May 2019
Cognition Seminar Series	Brown University	Apr 2019
Psychology	Boston College	Mar 2019
Psychology	Georgia Tech	Feb 2019
Developmental Psychology Current Works	Yale University	Feb 2019
Cognitive & Behavioral Neuroscience University Seminar	Columbia University	Jan 2019
Psychiatry Grand Rounds	Yale School of Medicine	Dec 2018
Queensland Brain Institute	University of Queensland	Nov 2018
Molecular, Cellular & Developmental Biology Seminar	Yale University	Oct 2018
Westend Lectures on Brain and Cognition	Max Planck Institute	May 2018
Psychology	Ohio State University	Apr 2018
Cognitive Science	Tufts University	Feb 2018
Cognitive, Computational, & Systems Neuroscience	Washington University	Oct 2017
Center for Lifespan Psychology	Max Planck Institute	Oct 2017

Vision Research Seminar	Vanderbilt University	Apr 2017
Rotman Rounds	Baycrest Hospital	May 2016
Center for Vital Longevity	University of Texas Dallas	Apr 2016
Cognitive Science	University of Maryland	Mar 2016
Institute for Neuroscience	George Washington	Feb 2016
Cognitive Psychology	VU Amsterdam	Feb 2016
Psychology	Stanford University	Jan 2016
Psychology	Carnegie Mellon	Nov 2015
Psychology	Yale University	Sep 2015
Booth School of Business	University of Chicago	May 2015
Cognitive Seminar, Psychology	Carnegie Mellon	Mar 2015
Psychology	Columbia University	Nov 2014
Psychology	University of Chicago	Oct 2014
Brain Information Communication Group	ATR	Jul 2014
Cognitive Science	Kyoto University	Jul 2014
Cognitive Seminar, Psychology	UBC	Mar 2014
Cognitive Science	University of Arizona	Jan 2014
Psychology	Tel Aviv University	Dec 2013
Psychology and Safra Brain Research Center	University of Haifa	Dec 2013
Psychology	Hebrew University	Dec 2013
Cognitive Science and IGERT	Indiana University	Dec 2013
Center for Memory & Brain	Boston University	Oct 2013
Cognition, Brain, & Behavior Seminar, Psychology	Harvard University	Oct 2013
Human Cognitive and Brain Sciences	Max Planck Institute	Sep 2013
Psychology	CCNY	Mar 2013
Psychology and Neuroscience	Duke University	Jan 2013
Psychology (2 talks)	Carnegie Mellon University	Jan 2013
Center for Cognitive Neuroscience	University of Pennsylvania	Dec 2012
Psychology	Western Ontario	Nov 2012
Cognition & Perception Seminar, Psychology	New York University	Oct 2012
Cognitive Neuroscience Series, Psychology	Lehigh University	Mar 2012
Memory in Brain Series, Center for Neural Science	New York University	Feb 2012
Brain and Cognitive Sciences	University of Rochester	Nov 2011
Cognitive Lunch, Psychology	Columbia University	Nov 2011
Perceptual Science Series, Psychology	Rutgers University	Oct 2011
Institute for the Study of Child Development	UMDNJ	Oct 2011
Cognitive Brown Bag, Psychology	University of Delaware	May 2011
Psychology	University of Nebraska	Apr 2011
Cognitive Science	Johns Hopkins University	Mar 2011
McGovern Institute	MIT	Mar 2009
Cognitive Series, Psychological and Brain Sciences	Dartmouth College	Mar 2009
Brain and Cognitive Sciences	MIT	Mar 2009
Psychology	Brown University	Feb 2009
Psychology (2 talks)	University of Oregon	Feb 2009
Psychology	Princeton University	Feb 2009
Psychology (2 talks)	UCLA	Jan 2009
Psychological & Brain Sciences (2 talks)	Johns Hopkins University	Dec 2008
Magnetic Resonance Research Center	Yale University	Dec 2008
Psychological and Brain Sciences	Johns Hopkins University	Jul 2008
Vision Seminar Series, Brain and Cognitive Sciences	MIT	Mar 2007

Invited Symposia, Workshops, & Keynotes

RIKEN Center for Brain Science	Tokyo, Japan	Oct 2022
Computational Psychiatry and Ageing Symposium	Marbach Castle, Germany	Aug 2022
Canadian Institute for Advanced Research Workshop	virtual	Nov 2021
Neonatal and Infant Imaging Workshop	NIMH	Jun 2021
Donders Institute for Brain, Cognition and Behaviour	virtual	Mar 2021
Fondation des Treilles	virtual	Mar 2021
James S. McDonnell Foundation	virtual	Feb 2021
International Congress of Infant Studies Symposium	virtual	Jul 2020
Israeli Institute of Advanced Studies Conference	Jerusalem, Israel	Jan 2020
FLUX Congress Symposium	New York, NY	Aug 2019
Canadian Institute for Advanced Research Workshop	London, ON	Jun 2019
ASU-GSV Summit	San Diego, CA	Apr 2019
Real-time fMRI Neurofeedback Workshop	NIMH	Mar 2019
CIFAR Winter School on Neuroscience of Consciousness	Montebello, Canada	Dec 2018
Australasian Cognitive Neuroscience Society	Melbourne, Australia	Nov 2018
Latin American School Education, Cognitive & Neural Sci.	Santiago, Chile	Jun 2018
Vision Sciences Society	St. Pete Beach, FL	May 2018
Concepts, Actions, and Object Workshop	Rovereto, Italy	May 2018
International Conference on Learning and Memory	Irvine, CA	Apr 2018
Taiwan Cognitive Neuroscience Society	Taipei, Taiwan	Jan 2018
Real-time Functional Imaging & Neurofeedback Conf.	Nara, Japan	Nov 2017
Future Forum Annual Conference	Beijing, China	Oct 2017
Future Forum Public Lecture	Beijing, China	Jun 2017
Cognitive Neuroscience Society	San Francisco, CA	Mar 2017
Alpine Brain Imaging Meeting	Champéry, Switzerland	Jan 2017
Geneva-Princeton Workshop on Human Learning	Geneva, Switzerland	Jan 2017
Predictive Coding Workshop	Dartmouth University	Aug 2016
Canadian Institute for Advanced Research Workshop	London, UK	May 2016
Vision Sciences Society	St. Pete Beach	May 2016
Toronto Area Memory Group	Toronto, ON	May 2016
MURI Winter School (2 talks)	San Diego, CA	Jan 2016
Canadian Institute for Advanced Research Workshop	Toronto, ON	Dec 2015
Interdisciplinary Advances in Statistical Learning	San Sebastian, Spain	Jun 2015
MEMfest, conference in honor of Marcia Johnson	Yale University	Jun 2015
Association for Psychological Science	New York, NY	May 2015
UT Austin Conference on Learning and Memory	Austin, TX	Apr 2015
ISAT/DARPA Toward Optimal Learning Workshop	Arlington, VA	Dec 2014
National Cancer Institute	Rockville, MD	Nov 2014
Asia-Pacific Conference on Vision	Takamatsu, Japan	Jul 2014
Human Development Workshop	Max Planck Institute	Mar 2014
Brain Connectivity and Behavior Workshop	Whistler, BC	Mar 2014
Canadian Institute for Advanced Research Workshop	Toronto, ON	Jan 2014
Learning to Attend, Attending to Learn Workshop	San Diego, CA	Nov 2013
Memory Disorders Research Society	Toronto, ON	Oct 2013
Radcliffe Symposium on Real-time fMRI	Harvard University	Jul 2013
Advances in Memory Systems	New York University	Apr 2013
Perceptual Expertise Network	Austin, TX	Nov 2012
Memory Disorders Research Society	Davis, CA	Sept 2012
Adaptive Computations Meeting	Santorini, Greece	May 2012
International Conference on Cognitive Neuroscience	Mallorca, Spain	Sept 2011
Annual Retreat, PNI	Princeton University	Sept 2010
Kavli Workshop on Decision Making	Yale University	May 2009

Object Group Meeting	CUNY	Mar 2007

Professional Activities

Editorial Roles

Cognition, Editorial Board	2021–
Psychological Science, Editorial Board	2020–
Visual Cognition, Consulting Editor	2012–
Open Mind, Associate Editor	2015–2020
Journal of Experimental Psychology: Learning, Memory, and Cognition, Editorial Board	2018–2019
eLife, Reviewing Editor	2017–2018
Attention, Perception, & Psychophysics, Consulting Editor, Associate Editor	2014–2017
Journal of Experimental Psychology: General, Special Section Co-organizer	2013

Grant Panels

NIH Human Complex Mental Function Study Section (HCMF), Standing Member	2021–2025
NIH Cognition and Perception Study Section (CP), Standing Member	2019–2020

Advisory Boards

NIMH Board of Scientific Counselors, Ad Hoc Reviewer	2021
APA Committee on Scientific Awards, Chair	2020–2021
APA Committee on Scientific Awards, Member	2018–2020
National Academies Cmte. on Reducing Counterfeiting Using Behavioral Sciences, Member	2016–2020
APA Early Career Award Selection Committee, Member	2016

Conference Planning

International Congress of Infant Studies, Abstract Review Panel Member	2022
Vision Sciences Society, Abstract Review Committee Member	2021
CIFAR Early Developmental Neuroscience Catalyst Workshop, Co-organizer	2018
Real-time Functional Imaging and Neurofeedback, Executive Committee	2017,2022
Geneva-Princeton Workshop on Human Learning, Co-organizer	2017
Memory Disorders Research Society, Co-organizer	2016
Cognitive Neuroscience Society, Poster Committee Member	2013–2015

Ad Hoc Reviewing – Awards and Grants

Canada Research Chairs
Economic & Social Research Council (U.K.)
Israel Science Foundation
National Institutes of Health
National Science Foundation
Natural Sci. & Eng. Research Council of Canada
Swiss National Science Foundation
Vienna Science and Technology Fund

Ad Hoc Reviewing – Journals

Acta Psychologica
Applied Cognitive Psychology
Attention, Perception, & Psychophysics
Brain and Language
Brain Research
Cerebral Cortex
Cognition
Cognitive Psychology
Cognitive Science
Consciousness & Cognition
Cortex
Current Biology
Developmental Cognitive Neuroscience
Developmental Science
European Journal of Cognitive Psychology
Frontiers in Developmental Psychology
Human Brain Mapping
Infant Behavior and Development
Journal of Cognitive Neuroscience
Journal of Experimental Child Psychology
Journal of Experimental Psychology (JEP): General
JEP: Human Perception and Performance
JEP: Learning, Memory, and Cognition
Journal of Neuroscience

Journal of Neurophysiology
Journal of Vision
Memory & Cognition
Nature
Nature Communications
Nature Neuroscience
Nature Reviews Neuroscience
NeuroImage
NeuroImage: Clinical
Neuron
Neuropsychologia
Neuroscience Letters
Perception
Philosophical Transactions of the Royal Society
Proceedings of the National Academy of Sciences
Psychological Science
Psychonomic Bulletin & Review
PLoS Biology
PLoS Computational Biology
Quarterly Journal of Experimental Psychology
Scientific Reports
Science
Trends in Cognitive Sciences
Trends in Neurosciences
Vision Research
Visual Cognition

Society Memberships

Association for Psychological Science
Cognitive Neuroscience Society
Memory Disorders Research Society (elected)
Psychonomic Society (elected)
Society for Neuroscience
Society of Experimental Psychologists (elected)
Vision Sciences Society

Science Policy

Coalition for National Science Funding Exhibition	Washington, DC	Apr 2019

Consulting

Liulishuo (LAIX)	2017–2020
Houghton Mifflin Harcourt - Learning Sciences	2019–2020

Lab Software

Brain Imaging Analysis Kit (BrainIAK)	https://brainiak.org
BrainIAK Tutorials	https://brainiak.org/tutorials
NeuroPipe	https://github.com/ntblab/neuropipe
Infant NeuroPipe	https://github.com/ntblab/infant_neuropipe
Experiment Menu	https://github.com/ntblab/experiment_menu

Teaching

Primary Instructor

Computational Methods in Human Neuroscience (undergrad/grad research methods course): 2018, 2019, 2021, 2022
Senior Empirical Research Seminar (undergrad seminar): 2020
Introduction to Psychology (undergrad lecture course): 2013 (+ lab), 2015 (+ lab), 2019
Proseminar in Cognitive Psychology (grad lecture course): 2009, 2010, 2012, 2014, 2016
Research Seminar in Cognitive Psychology (area seminar): 2011, 2012
Visual Aesthetics (undergrad lab course): 2012
Visual Cognition (undergrad lecture course): 2011

Guest Lectures

Foundations of Neuroscience (team-taught grad lecture course): 2017, 2018, 2019, 2020, 2022
Foundations of Systems Neuroscience (team-taught grad lecture course): 2018, 2019, 2020, 2022
Interdepartmental Neuroscience Program Bootcamp (grad prep course): 2021

Dissertation Defense Committees

2022: Qi Lin; Paola Odriozola; Lauren Patrick; Angela Renton; Viola Mocz
2021: Cameron Ellis; David Richter; Clara Colombatto; Abigail Greene
2020: Kevin Anderson; Anne Mennen; Matt Panichello; Scott Tillem
2019: Bud Lambert; Thomas O'Connell
2017: Chaz Firestone; Yi-Chia Chen; Natalia Córdova
2016: Wouter Kruijne; Judy Fan; Jane Keung; Megan deBettencourt; Ghootae Kim
2015: Kathi Seidl-Rathkopf; Wouter Kool
2014: Daniel Ames; Drew Jacoby-Senghor; Peter Mende-Siedlecki; Rachel Montana; Anna Schapiro
2013: Mike Arcaro; Matt Johnson; Jiaying Zhao
2012: Tyson Aflalo; Miriam Bocarsly; Michael Todd; Timothy Schoenfeld; Sara Verosky
2011: Hjalmar Turesson
2010: Greg Detre; Chris Moore; Sara Szczepanski

Dissertation Proposal Committees

2022: Kailong Peng; Antonio Fonseca, Michael Farrugia
2021: Kathryn Graves; Tristan Yates; Viola Mocz
2019: Qi Lin; Mike Farruggia; Lauren Patrick
2018: Anne Mennen; Matt Panichello; Abigail Greene
2016: Adam Brockett
2015: Judith Fan; Ghootae Kim; Mor Regev; Natalia Córdova
2013: Wouter Kool; Jane Keung
2012: Drew Jacoby-Senghor; Matthew Johnson; Peter Mende-Siedlecki; Anna Schapiro
2011: Michael Arcaro; Laura Suttle
2010: Lauren Silbert; Michael Todd; Sara Verosky

General Exam Committees

2020: Amber Howell
2019: Cameron Ellis; Sahana Kribakaran; Ryosuke Tanaka
2018: Victoria Ritvo
2016: Aaron Kurosu; Angela Radulescu
2015: Asieh Zadbood; Luis Piloto
2013: Judith Fan; Ghootae Kim
2012: Wouter Kool; Kathi Seidl; Kaite Yang
2011: Drew Jacoby-Senghor
2010: Michael Arcaro; Samuel Gershman; Laura Suttle

Service

Yale University

Primary roles

Institute Director, Wu Tsai Institute	2021–
Co-Director of Undergraduate Studies, Neuroscience Major	2017–2021

Committees

Member, Clinical Psychology Faculty Search Committee	2021–2022
Member, Psychology Committee for Racial Equity and Justice	2020–2022
Member, YSM Neuroscience Department Chair Search Committee	2020, 2021
Member, Yale Center for Research Computing Budget Sub-committee	2019–2021
Member, Social Sciences Area and Tenure Appointments Committee	2019–2020
Member, Neuroscience Working Group	2019

Chair, Cognitive Psychology Faculty Search Committee	2018-2019
Chair, Central Campus Scanner Governance Committee	2017–
Member, INP Executive Committee	2017–2022
Member, Neuroscience Major Curriculum Committee	2017–2021
Member, Yale Center for Research Computing Steering Committee	2017–2021
Member, INP Graduate Student Curriculum Committee	2017–2018
Member, Psychology Graduate Program Advisory Committee	2017–2018

Other activities

Speaker, School of Medicine Chairs' Retreat	2022
Moderator, Campaign Launch Neuroscience Panel	2021
Speaker, Class of '65 Alumni Seminar (virtual)	2021
Speaker, Sterling Fellows	2021
Panelist, Parents Leadership Council	2021
Speaker, Wu Tsai Institute Announcement	2021
Panelist, Mental Health and the Brain Webinar	2020
Speaker, Neuroscience Development Dinner (San Francisco)	2020
Speaker, Yale Corporation	2020
Speaker, Parents Leadership Council	2019
Speaker, Neuroscience Development Dinner (New York City)	2019
Panelist, Yale Explores… Creativity (Chicago)	2019
Participant, Yale Development Council	2019

Princeton University

Department of Psychology

Primary roles

Associate Chair	2015–2016
Coordinator, Cognitive area	2012–2015

Committees

Chair, Undergraduate curriculum committee	2014–2016
Member, Graduate curriculum committee	2014
Member, Developmental faculty search	2013–2014
Member, Junior paper committee	2012–2013
Member, Cognitive faculty search	2010–2012
Member, Graduate student recruitment committee	2010–2011
Member, Miller-Schroeder prize committee	2010

Other activities

Representative, Academic Expo	2015
Speaker, Graduate student orientation	2011,2012,2014
Speaker, Building dedication	2014
Speaker, Graduate alumni reunion	2013
Presenter, Class Day	2010
Representative, Majors' Fair	2010
Speaker, Graduate student visiting day	2010

Affiliated units

Committees

Member, Executive committee, *Canadian Studies*	2015–2016

Member, Executive committee, *Cognitive Science*	2014–2016
Member, Computing steering committee, *PNI*	2014–2016
Member, Research Computing Advisory Group, *PICSciE*	2014–2016
Member, Scanner instrumentation committee, *PNI*	2010–2014
Member, Dale award committee, *Forbes College*	2011
Member, Essig-Enright and Pyne grants panel, *SEAS*	2011

Other activities

Faculty fellow, *Butler College*	2012–2017
Guest Lecturer, Graduate PNI core course	2014–2016
Guest Lecturer, Neurotechnologies for Analysis of Neural Dynamics	2015
Panelist, Strategic planning workshop, *SEAS*	2014
Participant, Faculty seminar, *Humanities Council*	2012
Panelist, New faculty orientation, *McGraw Center*	2012
Faculty fellow, *Forbes College*	2010–2012
Academic advisor, *Forbes College*	2010–2011

<u>University-wide</u>

Committees

Member, Committee on Conference and Faculty Appeal	2014–2017
Member, Provost's Priorities Committee	2014–2016
Member, Committee on the Library and Computing	2010–2013
Member, Institutional Review Board for Human Subjects	2010–2013

Other activities

Speaker, Presidential Retreat on the Natural Sciences	2015
Keynote, Class Leadership Conference dinner	2015
Keynote, Princeton Alumni Association of Canada annual dinner	2013
Speaker, Class of '68 Alumni Seminar	2011