

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)	2017–
Departments of Neurosurgery, Psychiatry, Child Study Center	
Cognitive Science Program, Interdepartmental Neuroscience Program	

Princeton University

Professor, Department of Psychology (primary)	2016–2017
Princeton Neuroscience Institute	
Princeton Institute for Computational Science & Engineering	
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)

<i>Fellow</i> , Canadian Institute for Advanced Research	2016–2026
<i>Early Investigator Award</i> , Society of Experimental Psychologists	2018
<i>Young Investigator Award</i> , Cognitive Neuroscience Society	2017
<i>Young Investigator Award</i> , Vision Sciences Society	2016
<i>Distinguished Scientific Award for Early Career Contribution to Psychology</i> , APA	2015
<i>Lawrence S. Brodie University Preceptor</i> , Princeton University	2012–2015
<i>Robert L. Fantz Memorial Award</i> , American Psychological Foundation	2014
<i>Rising Star</i> , Association for Psychological Science	2012
<i>James B. Grossman Dissertation Prize</i> , Yale University	2009
<i>Early Graduate Student Researcher Award</i> , American Psychological Association	2006
<i>Doctoral Postgraduate Scholarship (foreign)</i> , NSERC	2005–2008
<i>Masters Postgraduate Scholarship (foreign)</i> , 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

3 current, 10 former (7 in faculty positions)

Yuna Kwak (2024–)

Research: Development of multisensory integration

Omri Raccach (2023–)

Research: Multisensory perception and memory

Honors: *National Research Service Award*, NIH (F32 EY035941, 2024–2027)

Nitzan Lubianiker (2023– ; co-advisor: Kenneth Norman)

Research: Real-time neurofeedback training in depression

Laurent Caplette (2020–2024)

Research: Deep neural networks and human perception

Honors: *Postdoctoral Research Scholarship*, FRQNT (2020–2023); *Postdoctoral Fellowship*, NSERC (2023–)

Sheri Choi (2021–2023; deceased)

Research: Longitudinal memory development and infantile amnesia

Honors: *Postdoctoral Fellowship*, SSHRC (2022–2023)

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 (2018–2024)

Latest: Professor of Cognitive Neuroscience, University College London (2024–)

Nicholas Hindy (2012–2017)

Research: Action-contingent visual coding

Honors: *National Research Service Award*, NIH (F32 EY023162, 2013–2016)

After: *Assistant Professor*, University of Louisville (2017–2023)

Latest: *Assistant Professor*, College of Charleston (2023–)

Mariam Aly (2013–2017)

Research: Attentional states in memory systems

After: *Assistant Professor*, Columbia University (2017–2024)

Latest: *Associate Professor*, University of California – Berkeley (2024–)

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)

Latest: *Assistant Professor*, University of Oregon (2018–)

Vikranth Rao Bejjanki (2012–2016)

Research: Connectivity-based perceptual learning

After: *Assistant Professor*, Hamilton College (2016–)

Latest: *Associate Professor*, Hamilton College (2023–)

Naseem Al-Aidroos (2010–2012)

Research: Attentional modulation of connectivity

Honors: *Postdoctoral Fellowship*, NSERC (2010–2012)

After: *Assistant Professor*, University of Guelph (2012–2017)

Latest: *Associate Professor*, University of Guelph (2017–)

Graduate Students

6 current, 13 former (5 in faculty positions)

Sophie Allen (PhD, 2024–)

Shruti Nishith (PhD, 2024–)

Tibin John (MD, 2023–)

Research: Sequence learning in human neurons

Lily Behm (PhD, 2022–)

Research: Early development of relational memory

Honors: *Graduate Research Fellowship*, NSF (2023–2026)

Irene Zhou (PhD, 2022–)

Research: Perspective taking in memory

Erica Busch (PhD, 2020–)

Research: Learning along the neural manifold

Honors: *Graduate Research Fellowship*, NSF (2021–2024)

Kailong Peng (PhD, 2019–2024)

Research: Differentiating memories with neurofeedback

After: *Postdoctoral Fellow*, Peking University (2024–)

Kathryn Graves (PhD, 2018–2023)

Research: Learning and consolidation of regularities

Honors: *YCCI Multidisciplinary Training Program Award* (2020–2021); *Predoctoral to Postdoctoral Fellow Transition Award (F99/K00)*, NIH (2021–2023)

After: *Equity Researcher*, UBS (2023–)

Tristan Yates (PhD, 2018–2023)

Research: How infants experience the world

Honors: *Graduate Research Fellowship*, NSF (2018–2021)

After: *Postdoctoral Fellow*, Columbia University (2023–)

Brynn Sherman (PhD, 2017–2022)

Research: Tradeoffs between statistical and episodic learning

Honors: *Graduate Research Fellowship*, NSF (2017–2020)

After: *Postdoctoral Fellow*, University of Pennsylvania (2022–)

Cameron Ellis (PhD, 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)

Latest: *Assistant Professor*, Stanford University (2023–)

Matthew Panichello (PhD, 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 (2021–2024)

Latest: *Neuroscientist*, Starfish Neuroscience (2024–)

Natalia Córdova (PhD, 2012–2017)

Research: Relational attention and perception

Honors: *Quin Morton Fellowship*, Princeton University (2016–2017)

After: *Lecturer*, Yale University (2018–2020)

Latest: *Assistant Dean of Studies*, Mathey College, Princeton University (2020–)

Judith Fan (PhD, 2011–2017)

Research: Internal attention and visual production

Honors: *Graduate Research Fellowship*, NSF (2013–2016); *Early Graduate Student Researcher Award*, APA (2013); *Glushko Prize*, Cognitive Science Society (2017)

After: *Postdoctoral Fellow*, Stanford University (2017–2019)

Latest: *Assistant Professor*, Stanford University (2023–)

Megan DeBettencourt (PhD, 2010–2016; co-advisor: Kenneth Norman)

Research: Improving attention and memory with neurofeedback

Honors: *Graduate Research Fellowship*, NSF (2012–2015)

After: *Postdoctoral Fellow*, University of Chicago (2016–2023)

Latest: *Research Scientist*, Ruby Neurotech (2023–)

Ghootae Kim (PhD, 2011–2016; co-advisor: Kenneth Norman)

Research: Context-based visual prediction

After: *Postdoctoral Fellow*, University of Oregon (2016–2018)

Latest: *Senior Researcher*, Korea Brain Research Institute (2018–2023)

Anna Schapiro (PhD, 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)

Latest: *Associate Professor*, University of Pennsylvania (2019–)

Jiaying Zhao (PhD, 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)

Latest: *Associate Professor*, University of British Columbia (2019–)

Sara Verosky (PhD, 2009–2012; primary advisor: Alexander Todorov)

Research: Visual and social representations of facial identity

After: *Postdoctoral Fellow*, Harvard University (2012–2014)

Latest: *Associate Professor*, Oberlin College (2023–)

Undergraduate Alumni (selected)

Chandra Fincke (Yale '24)

James Cross (Yale '23)

Jared Fel (Yale '23)

Veer Sangha (Yale '23)

Neelam Shaikh (Yale '21)

Sreejan Kumar (Yale '19)

Emily Avery (Princeton '17)

Felicia Ng (Princeton '15)

Morgan Taylor (Princeton '15)

Lisa Yankowitz (Princeton '13)

Riana Betzler (Yale '10)

Samuel Norman-Haignere (Yale '10)

Phillip Isola (Yale '08)

After:

officer in US Space Force

medical student at Yale

graduate student at New School

Rhodes Scholar

medical student at Columbia

graduate student at Princeton

medical student at Yale

graduate student at Carnegie Mellon

graduate student at Duke

graduate student at UPenn

graduate student at Cambridge

graduate student at MIT

graduate student at MIT

Staff Alumni (selected)

Ariadne Letrou (2021–2023)

Jonathan Daniels (2019–2021)

Lindsay Rait (2017–2019)

Jennifer Bu (2017–2018)

Chandra Greenberg (2015–2017)

Nate Wilson (2014–2015)

Victoria Ritvo (Jackson-Hanen) (2012–2014)

Alexa Tomparry (2010–2012)

Nhi Ngo (2010–2011)

Ryan McKendrick (2009–2010)

After:

graduate student at Princeton

graduate student at Princeton

graduate student at Oregon

medical student at UCSD

research assistant at Princeton

graduate student at USF

graduate student at Princeton

graduate student at NYU

graduate student at Brandeis

graduate student at George Mason

Research Grants (selected)

<i>National Institutes of Health</i> (R01 NS132926)	2023–2027
Title: Generalized prediction errors in the human cerebellum	
Role: Co-I (PI: Sam McDougle)	Total: \$2,093,750
<i>Meta Reality Labs</i>	2023–2025
Title: A longitudinal study of multisensory development in humans	
Role: Site PI (w/ David Lewkowicz, Mark Wallace)	Total: \$675,000
<i>National Science Foundation</i> (BCS 2148012)	2022–2025
Title: Development of language-related neural networks using multimodal imaging	
Role: Co-PI (PI: Dick Aslin)	Total: \$747,017
<i>National Institutes of Health</i> (R21 MH128740)	2022–2024
Title: Neural mechanisms of stress effects across hippocampal encoding and prediction	
Role: Co-I (PI: Liz Goldfarb)	Total: \$460,625
<i>National Institutes of Health</i> (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
<i>National Institutes of Health</i> (R61 MH128492)	2021–2023
Title: Reducing neural perseveration through neurofeedback to alleviate depressive symptoms	
Role: Co-I (PI: Yvette Sheline)	Total: \$1,599,926
<i>James S. McDonnell Foundation</i>	2020–2024
Title: Establishing ground truth about the development of episodic memory in infancy	
Role: PI	Total: \$250,000
<i>National Science Foundation</i> (CCF 1839308)	2018–2021
Title: TRIPODS+X:RES: Investigations at the interface of data science and neuroscience	
Role: PI	Total: \$599,992
<i>National Institutes of Health</i> (R01 MH069456)	2016–2023
Title: Computational, neural, and behavioral studies of competition-dependent learning	
Role: MPI (w/ Ken Norman)	Total: \$2,343,192
<i>Intel Corporation</i>	2015–2020
Summary: Optimization and development of high-performance methods for fMRI analysis	
Role: Co-PI (PI: Jon Cohen)	Total: \$2,041,200
<i>The John Templeton Foundation</i> (57876)	2015–2018
Title: Toward a scientific understanding of the human capacity for cognitive control	
Role: Investigator (PI: Jon Cohen)	Total: \$2,997,571
<i>National Science Foundation</i> (ACI 1440750)	2014–2016
Title: A software-defined campus network for big-data sciences	
Role: Co-PI (PI: Jen Rexford)	Total: \$399,776
<i>The John Templeton Foundation</i> (36751)	2012–2015
Title: Toward a scientific understanding of the human capacity for cognitive control	
Role: Investigator (PI: Jon Cohen)	Total: \$3,986,094
<i>National Science Foundation</i> (BCS 1229597)	2012–2015
Abbrev. title: Cluster for multivariate real-time and whole-brain correlation analysis	
Role: Co-PI (PI: Jon Cohen)	Total: \$527,978 (+\$560,000 in-kind Intel)

US-Israel Binational Science Foundation (2011-2015)	2012–2015
Title: Numerical and statistical processes in normal cognition and dyscalculia	
Role: PI (w/ Liat Goldfarb)	Total: \$ 150,000
National Institutes of Health (R01 EY021755)	2011–2017
Title: Neural and behavioral interactions between attention, perception, and learning	
Role: PI	Total: \$1,783,748

Publications

Journal Articles

123. Aljishi, A., *et al.* (2024). Statistical learning in epilepsy: Behavioral and anatomical mechanisms in the human brain. *Epilepsia*, 65, 753-765.
122. Caplette, L., & Turk-Browne, N. B. (2024). Computational reconstruction of mental representations using human behavior. *Nature Communications*, 15, 4183.
121. Jordan, C. R., Ritvo, V. J. H., Norman, K. A., Turk-Browne, N. B., & Cohen, J. D. (2024). Sculpting new visual categories into the human brain. *Proceedings of the National Academy of Sciences*, 121, e2410445121.
120. Peng, K., Wammes, J. D., Nguyen, A., Jordan, M. C., Norman, K. A., & Turk-Browne, N. B. (2024). Inducing representational change in the hippocampus through real-time neurofeedback. *Philosophical Transactions of the Royal Society B*, 379, 20230091.
119. Ritvo, V. J. H., Nguyen, A., Turk-Browne, N. B., & Norman, K. A. (2024). Differentiation and integration of competing memories: A neural network model. *eLife*, 12, RP88608.
118. Sherman, B. E., Huang, I., Wijaya, E. G., Turk-Browne, N. B., & Goldfarb, E. V. (2024). Acute stress effects on statistical learning and episodic memory. *Journal of Cognitive Neuroscience*, 36, 1741-1759.
117. Sherman, B. E., Turk-Browne, N. B., & Goldfarb, E. V. (2024). Multiple memory subsystems: Reconsidering memory in the mind and brain. *Perspectives on Psychological Science*, 19, 103-125.
116. Sivaraju, A., *et al.* (2024). Systematic 1 Hz direct electrical stimulation for seizure induction: A reliable method for localizing seizure onset zone and predicting seizure freedom. *Brain Stimulation*, 17, 339-345.
115. Turk-Browne, N. B., & Aslin, R. N. (2024). Infant neuroscience: How to measure brain activity in the youngest minds. *Trends in Neurosciences*, 47, 338-354.
114. Bornstein, A. M., Aly, M., Feng, S., Turk-Browne, N. B., Norman, K. A., & Cohen, J. D. (2023). Associative memory retrieval modulates upcoming perceptual decisions. *Cognitive, Affective, and Behavioral Neuroscience*, 23, 504-524.
113. Busch, E. L., *et al.* (2023). Multi-view manifold learning of human brain state trajectories. *Nature Computational Science*, 3, 240-253.
112. Fel, J. T., Ellis, C. T. & Turk-Browne, N. B. (2023). Automated and manual segmentation of the hippocampus in human infants. *Developmental Cognitive Neuroscience*, 60, 101203.
111. Levy, S., Turk-Browne, N. B., & Goldfarb, L. (2023). Impaired visuo-spatial statistical learning with mathematical learning difficulties. *Visual Cognition*, 31, 138-148.
110. Li, Y. P., Wang, Y., Turk-Browne, N. B., Kuhl, B. A., & Hutchinson, J. B. (2023). Perception and memory retrieval states are reflected in distributed patterns of background functional connectivity. *NeuroImage*, 276, 120221.
109. Seitz, A. R., *et al.* (2023). Perceptual learning: policy insights from basic research to real world applications. *Policy Insights from the Behavioral and Brain Sciences*, 10, 324-332.

108. Sherman, B. E., *et al.* (2023). Intracranial entrainment reveals statistical learning across levels of abstraction. *Journal of Cognitive Neuroscience*, 35, 1312-1328.
107. Sherman, B. E., Harris, B. B., Turk-Browne, N. B., Sinha, R., & Goldfarb, E. V. (2023). Hippocampal mechanisms support cortisol-induced memory enhancements. *Journal of Neuroscience*, 43, 7198-7212.
106. Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2023). Face processing in the infant brain after pandemic lockdown. *Developmental Psychobiology*, 65, e22346.
105. Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2023). Functional networks in the infant brain during sleep and wake states. *Cerebral Cortex*, 33, 10820-10835.
104. Zhang, R., Wang, J., Lin, H., Turk-Browne, N. B., & Cai, Q. (2023). Neural signatures of second language proficiency in narrative processing. *Cerebral Cortex*, 33, 8477-8484.
103. 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.
102. Bethlehem, R. A. I., *et al.* (2022). Brain charts for the human lifespan. *Nature*, 604, 525-533.
101. Graves, K. N., Sherman, B. E., Huberdeau, D., Damisah, E., Quraishi, I. H., & Turk-Browne, N. B. (2022). Remembering the pattern: A longitudinal case study on statistical learning in spatial navigation and memory consolidation. *Neuropsychologia*, 174, 108341.
100. 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.
99. Sherman, B. E., Graves, K. N., Huberdeau, D. M., Quraishi, I. H., Damisah, E. C., & Turk-Browne, N. B. (2022). Temporal dynamics of competition between statistical learning and episodic memory in intracranial recordings of human visual cortex. *Journal of Neuroscience*, 42, 9053-9068.
98. Wallace, G., *et al.* (2022). RT-Cloud: A cloud-based software framework to simplify and standardize real-time fMRI. *NeuroImage*, 257, 119295.
97. Wammes, J. D., Norman, K. A., & Turk-Browne, N. B. (2022). Increasing stimulus similarity drives nonmonotonic representational change in hippocampus. *eLife*, 11, e68344.
96. Yates, T. S., Skalaban, L. J., Ellis, C. T., Bracher, A. J., Baldassano, C., & Turk-Browne, N. B. (2022). Neural event segmentation of continuous experience in human infants. *Proceedings of the National Academy of Sciences*, 119, e2200257119.
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.
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Conference Presentations (since 2010)

- Busch, E. L., Fincke, C., Lajoie, G., Krishnaswamy, S., & Turk-Browne, N. B. (Nov, 2024). Learning on the manifold of human brain activity through real-time neurofeedback. Talk at *Real-time Functional Imaging and Neurofeedback*, Heidelberg, Germany.
- Hennings, A. C., *et al.* (Nov, 2024). RT-Cloud: Cloud-based software framework to simplify and standardize real-time fMRI. Poster at *Real-time Functional Imaging and Neurofeedback*, Heidelberg, Germany.
- Behm, L., Yates, T. S., Trach, J. E., Choi, D., & Turk-Browne, N. B. (Oct, 2024). Hippocampal contributions to relational memory in human infants. Poster at *Society for Neuroscience*, Chicago, IL.
- Caplette, L., Kurumisawa, T., Borges, H., Cortes-Briones, J. A., & Turk-Browne, N. B. (Oct, 2024). The neural representation of object expectations across space and time. Poster at *Society for Neuroscience*, Chicago, IL.
- Cutts, E., *et al.* (Oct, 2024). Experience-dependent plasticity in adult human brain following visual perceptual training: a pilot study. Poster at *Society for Neuroscience*, Chicago, IL.
- Zhou, I., *et al.* (Oct, 2024). Differentiation of similar memories in the human hippocampus manipulated and measured via RNS. Poster at *Society for Neuroscience*, Chicago, IL.
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- Caplette, L., Kurumisawa, T., Borges, H., Cortes-Briones, J., & Turk-Browne, N. B. (May, 2024). The representational dynamics of visual expectations in the brain. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
- Busch, E. L., Fincke, E., Lajoie, G., Krishnaswamy, S., & Turk-Browne, N. B. (Nov, 2023). Learning on the manifold of human brain activity through real-time neurofeedback. Talk at *Society for Neuroscience*, Washington, DC.
- Trach, J. E., Yates, T. S., Choi, D., Behm, L., Ellis, C. T., McDougale, S. D., & Turk-Browne, N. B. (Nov, 2023). Striatal involvement in reward processing in the human infant brain. Poster at *Society for Neuroscience*, Washington, DC.
- Yates, T. S., Letrou, A., Trach, J. E., Choi, D., Behm, L., Ellis, C. T., & Turk-Browne, N. B. (Nov, 2023). Larger than life: Cartoons drive infant visual cortex more than realistic movies. Poster at *Society for Neuroscience*, Washington, DC.
- Zhou, I., Graves, K. N., McDevitt, E. A., Stemerman, G. L., Geisel, K. L., Norman, K. A., & Turk-Browne, N. B. (Nov, 2023). Modulation of pattern separation in episodic memory by direct electrical stimulation of the human hippocampus. Poster at *Society for Neuroscience*, Washington, DC.
- Caplette, L., & Turk-Browne, N. B. (Jul, 2023). Functional alignment of MEG activity during naturalistic movie viewing. Poster at *Organization for Human Brain Mapping*, Montreal, Canada.
- Caplette, L., & Turk-Browne, N. B. (May, 2023). An encoding model in shared functional space to reconstruct representations in multiple datasets. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
- Graves, K. N., Letrou, A., Gray, T. E., Quraishi, I. H., & Turk-Browne, N. B. (May, 2023). Decoding features of real-world navigation from the human hippocampus. Talk at *Vision Sciences Society*, St. Pete Beach, FL.
- Peng, K., Wammes, J. D., Nguyen, A., Iordan, M. C., Norman, K. A., & Turk-Browne, N. B. (May 2023). Non-monotonic plasticity from real-time inception of competition between object representations. Poster at *Vision Sciences Society*, St. Pete Beach, FL.
- Busch, E. L., *et al.* (Dec, 2022). An encoder-decoder framework for cross-modal translation of neuroimaging data. Poster at *Montreal AI & Neuroscience (MAIN)*, Montreal, Canada.
- Busch, E. L., *et al.* (Nov, 2022). A neural manifold learning framework for real-time fMRI neurofeedback. Poster at *Society for Neuroscience*, San Diego, CA.
- Choi, D., Trach, J. E., Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (Nov, 2022). Neural retrieval of infant memories during childhood. Poster at *Society for Neuroscience*, San Diego, CA.
- Fel, J. T., Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (Nov, 2022). Subsequent memory in the hippocampus of human infants. Poster at *Society for Neuroscience*, San Diego, CA.
- Graves, K. N., Gray, T. E., Letrou, A., Quraishi, I. H., & Turk-Browne, N. B. (Nov, 2022). Walking in the real world and in memory: spatial navigation during human neurophysiology. Poster at *Society for Neuroscience*, San Diego, CA.

- Harris, B., Sherman, B., Turk-Browne, N. B., Sinha, R., & Goldfarb, E. V. (Nov, 2022). Hydrocortisone alters neural mechanisms supporting emotional episodic memory. Talk at *Society for Neuroscience*, San Diego, CA.
- Peng, K., Wammes, J., Norman, K., & Turk-Browne, N. B. (Nov, 2022). Synthesizing images to build layer-specific mappings between convolutional neural networks and the brain. Poster at *Society for Neuroscience*, San Diego, CA.
- Sherman, B. E., Huang, I., Wijaya, E. G., Turk-Browne, N. B., & Goldfarb, E. V. (Nov, 2022). Acute stress modulates the use of hippocampal subsystems during learning. Poster at *Society for Neuroscience*, San Diego, CA.
- Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (Nov, 2022). Influence of sleep/wake state on functional networks in the infant brain. Poster at *Society for Neuroscience*, San Diego, CA.
- Busch, E. L., Huang, J., Wolf, G., Lajoie, G., Krishnaswamy, S., & Turk-Browne, N. B. (Oct, 2022). Learning on the manifold of human brain activity through real-time neurofeedback. Poster at *Real-time Functional Imaging and Neurofeedback*, New Haven, CT.
- Peng, K., Wammes, J., Norman, K., & Turk-Browne, N. B. (Oct, 2022). Activating visual competitors using real-time neurofeedback drives nonmonotonic representational change. Poster at *Real-time Functional Imaging and Neurofeedback*, New Haven, CT.
- 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.
- Aljisi, 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).
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- 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).
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- 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., Sklaban, 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.
- Sklaban, 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., Sklaban, 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., Sklaban, 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

<i>Psychological and Brain Sciences</i>	Dartmouth University	Apr 2025
<i>Perspectives in Neuroscience Seminar</i>	Western University	Dec 2024
<i>Wu Tsai Neurosciences Institute</i>	Stanford University	Nov 2024
<i>Cognitive and Behavioral Neuroscience Seminar</i>	Columbia University	Apr 2024
<i>Psychology</i>	Georgetown University	Mar 2024
<i>Developmental Brown Bag</i>	UCONN	Jan 2024
<i>Mind Meeting Series</i>	Max Planck Institute	Oct 2023
<i>Brain Sciences</i>	Weizmann Institute	May 2023
<i>Psychological and Brain Sciences</i>	Johns Hopkins University	Apr 2023
<i>Psychology</i>	University of Pennsylvania	Mar 2023
<i>Cognition and Perception Seminar</i>	New York University	Mar 2023
<i>Neuroscience Seminar</i>	Rockefeller University	Feb 2022
<i>Psychology</i>	University of Virginia	Dec 2021
<i>Centre for Cognitive Neuroimaging</i>	University of Glasgow	Oct 2021
<i>Psychology</i>	University of New South Wales	Jun 2021
<i>Montreal Neurological Institute</i>	McGill University	Apr 2021
<i>Center for Brain Plasticity and Recovery</i>	Georgetown University	Mar 2020
<i>Center for Cognitive Neuroscience</i>	Duke University	Jan 2020
<i>Neurology Grand Rounds</i>	Yale School of Medicine	Jun 2019
<i>Cognitive Neuroscience Speaker Series</i>	UC Riverside	May 2019
<i>Cognition Seminar Series</i>	Brown University	Apr 2019
<i>Psychology</i>	Boston College	Mar 2019
<i>Psychology</i>	Georgia Tech	Feb 2019
<i>Developmental Psychology Current Works</i>	Yale University	Feb 2019
<i>Cognitive & Behavioral Neuroscience University Seminar</i>	Columbia University	Jan 2019
<i>Psychiatry Grand Rounds</i>	Yale School of Medicine	Dec 2018
<i>Queensland Brain Institute</i>	University of Queensland	Nov 2018
<i>Molecular, Cellular & Developmental Biology Seminar</i>	Yale University	Oct 2018
<i>Westend Lectures on Brain and Cognition</i>	Max Planck Institute	May 2018
<i>Psychology</i>	Ohio State University	Apr 2018
<i>Cognitive Science</i>	Tufts University	Feb 2018
<i>Cognitive, Computational, & Systems Neuroscience</i>	Washington University	Oct 2017
<i>Center for Lifespan Psychology</i>	Max Planck Institute	Oct 2017
<i>Vision Research Seminar</i>	Vanderbilt University	Apr 2017
<i>Rotman Rounds</i>	Baycrest Hospital	May 2016
<i>Center for Vital Longevity</i>	University of Texas Dallas	Apr 2016
<i>Cognitive Science</i>	University of Maryland	Mar 2016
<i>Institute for Neuroscience</i>	George Washington	Feb 2016
<i>Cognitive Psychology</i>	VU Amsterdam	Feb 2016
<i>Psychology</i>	Stanford University	Jan 2016
<i>Psychology</i>	Carnegie Mellon	Nov 2015
<i>Psychology</i>	Yale University	Sep 2015
<i>Booth School of Business</i>	University of Chicago	May 2015
<i>Cognitive Seminar, Psychology</i>	Carnegie Mellon	Mar 2015
<i>Psychology</i>	Columbia University	Nov 2014
<i>Psychology</i>	University of Chicago	Oct 2014
<i>Brain Information Communication Group</i>	ATR	Jul 2014
<i>Cognitive Science</i>	Kyoto University	Jul 2014
<i>Cognitive Seminar, Psychology</i>	UBC	Mar 2014
<i>Cognitive Science</i>	University of Arizona	Jan 2014
<i>Psychology</i>	Tel Aviv University	Dec 2013
<i>Psychology and Safra Brain Research Center</i>	University of Haifa	Dec 2013

<i>Psychology</i>	Hebrew University	Dec 2013
<i>Cognitive Science and IGERT</i>	Indiana University	Dec 2013
<i>Center for Memory & Brain</i>	Boston University	Oct 2013
<i>Cognition, Brain, & Behavior Seminar, Psychology</i>	Harvard University	Oct 2013
<i>Human Cognitive and Brain Sciences</i>	Max Planck Institute	Sep 2013
<i>Psychology</i>	CCNY	Mar 2013
<i>Psychology and Neuroscience</i>	Duke University	Jan 2013
<i>Psychology (2 talks)</i>	Carnegie Mellon University	Jan 2013
<i>Center for Cognitive Neuroscience</i>	University of Pennsylvania	Dec 2012
<i>Psychology</i>	Western Ontario	Nov 2012
<i>Cognition & Perception Seminar, Psychology</i>	New York University	Oct 2012
<i>Cognitive Neuroscience Series, Psychology</i>	Lehigh University	Mar 2012
<i>Memory in Brain Series, Center for Neural Science</i>	New York University	Feb 2012
<i>Brain and Cognitive Sciences</i>	University of Rochester	Nov 2011
<i>Cognitive Lunch, Psychology</i>	Columbia University	Nov 2011
<i>Perceptual Science Series, Psychology</i>	Rutgers University	Oct 2011
<i>Institute for the Study of Child Development</i>	UMDNJ	Oct 2011
<i>Cognitive Brown Bag, Psychology</i>	University of Delaware	May 2011
<i>Psychology</i>	University of Nebraska	Apr 2011
<i>Cognitive Science</i>	Johns Hopkins University	Mar 2011
<i>McGovern Institute</i>	MIT	Mar 2009
<i>Cognitive Series, Psychological and Brain Sciences</i>	Dartmouth College	Mar 2009
<i>Brain and Cognitive Sciences</i>	MIT	Mar 2009
<i>Psychology</i>	Brown University	Feb 2009
<i>Psychology (2 talks)</i>	University of Oregon	Feb 2009
<i>Psychology</i>	Princeton University	Feb 2009
<i>Psychology (2 talks)</i>	UCLA	Jan 2009
<i>Psychological & Brain Sciences (2 talks)</i>	Johns Hopkins University	Dec 2008
<i>Magnetic Resonance Research Center</i>	Yale University	Dec 2008
<i>Psychological and Brain Sciences</i>	Johns Hopkins University	Jul 2008
<i>Vision Seminar Series, Brain and Cognitive Sciences</i>	MIT	Mar 2007

Invited Symposia, Workshops, & Keynotes

<i>Minnesota Symposium on Child Development</i>	Minneapolis, MN	Oct 2024
<i>Statistical Learning in the Brain Program</i>	Santa Barbara, CA	Jun 2023
<i>Cognitive Neuroscience Society</i>	San Francisco, CA	Mar 2023
<i>CIFAR Winter School</i>	Cancun, Mexico	Dec 2022
<i>RIKEN Center for Brain Science</i>	Tokyo, Japan	Oct 2022
<i>Computational Psychiatry and Ageing Symposium</i>	Marbach Castle, Germany	Aug 2022
<i>Canadian Institute for Advanced Research Workshop</i>	virtual	Nov 2021
<i>Neonatal and Infant Imaging Workshop</i>	NIMH	Jun 2021
<i>Donders Institute for Brain, Cognition and Behaviour</i>	virtual	Mar 2021
<i>Fondation des Treilles</i>	virtual	Mar 2021
<i>James S. McDonnell Foundation</i>	virtual	Feb 2021
<i>International Congress of Infant Studies Symposium</i>	virtual	Jul 2020
<i>Israeli Institute of Advanced Studies Conference</i>	Jerusalem, Israel	Jan 2020
<i>FLUX Congress Symposium</i>	New York, NY	Aug 2019
<i>Canadian Institute for Advanced Research Workshop</i>	London, ON	Jun 2019
<i>ASU-GSV Summit</i>	San Diego, CA	Apr 2019
<i>Real-time fMRI Neurofeedback Workshop</i>	NIMH	Mar 2019
<i>CIFAR Winter School on Neuroscience of Consciousness</i>	Montebello, Canada	Dec 2018
<i>Australasian Cognitive Neuroscience Society</i>	Melbourne, Australia	Nov 2018

<i>Latin American School Education, Cognitive & Neural Sci.</i>	Santiago, Chile	Jun 2018
<i>Vision Sciences Society</i>	St. Pete Beach, FL	May 2018
<i>Concepts, Actions, and Object Workshop</i>	Rovereto, Italy	May 2018
<i>International Conference on Learning and Memory</i>	Irvine, CA	Apr 2018
<i>Taiwan Cognitive Neuroscience Society</i>	Taipei, Taiwan	Jan 2018
<i>Real-time Functional Imaging & Neurofeedback Conf.</i>	Nara, Japan	Nov 2017
<i>Future Forum Annual Conference</i>	Beijing, China	Oct 2017
<i>Future Forum Public Lecture</i>	Beijing, China	Jun 2017
<i>Cognitive Neuroscience Society</i>	San Francisco, CA	Mar 2017
<i>Alpine Brain Imaging Meeting</i>	Champéry, Switzerland	Jan 2017
<i>Geneva-Princeton Workshop on Human Learning</i>	Geneva, Switzerland	Jan 2017
<i>Predictive Coding Workshop</i>	Dartmouth University	Aug 2016
<i>Canadian Institute for Advanced Research Workshop</i>	London, UK	May 2016
<i>Vision Sciences Society</i>	St. Pete Beach	May 2016
<i>Toronto Area Memory Group</i>	Toronto, ON	May 2016
<i>MURI Winter School (2 talks)</i>	San Diego, CA	Jan 2016
<i>Canadian Institute for Advanced Research Workshop</i>	Toronto, ON	Dec 2015
<i>Interdisciplinary Advances in Statistical Learning</i>	San Sebastian, Spain	Jun 2015
<i>MEMfest, conference in honor of Marcia Johnson</i>	Yale University	Jun 2015
<i>Association for Psychological Science</i>	New York, NY	May 2015
<i>UT Austin Conference on Learning and Memory</i>	Austin, TX	Apr 2015
<i>ISAT/DARPA Toward Optimal Learning Workshop</i>	Arlington, VA	Dec 2014
<i>National Cancer Institute</i>	Rockville, MD	Nov 2014
<i>Asia-Pacific Conference on Vision</i>	Takamatsu, Japan	Jul 2014
<i>Human Development Workshop</i>	Max Planck Institute	Mar 2014
<i>Brain Connectivity and Behavior Workshop</i>	Whistler, BC	Mar 2014
<i>Canadian Institute for Advanced Research Workshop</i>	Toronto, ON	Jan 2014
<i>Learning to Attend, Attending to Learn Workshop</i>	San Diego, CA	Nov 2013
<i>Memory Disorders Research Society</i>	Toronto, ON	Oct 2013
<i>Radcliffe Symposium on Real-time fMRI</i>	Harvard University	Jul 2013
<i>Advances in Memory Systems</i>	New York University	Apr 2013
<i>Perceptual Expertise Network</i>	Austin, TX	Nov 2012
<i>Memory Disorders Research Society</i>	Davis, CA	Sept 2012
<i>Adaptive Computations Meeting</i>	Santorini, Greece	May 2012
<i>International Conference on Cognitive Neuroscience</i>	Mallorca, Spain	Sept 2011
<i>Annual Retreat, PNI</i>	Princeton University	Sept 2010
<i>Kavli Workshop on Decision Making</i>	Yale University	May 2009
<i>Object Group Meeting</i>	CUNY	Mar 2007

Professional Activities

Editorial Roles

<i>Proceedings of the National Academy of Sciences</i> , Ad Hoc Editor	2024
<i>Cognition</i> , Editorial Board	2021–
<i>Visual Cognition</i> , Consulting Editor	2012–
<i>Psychological Science</i> , Editorial Board	2020–2024
<i>Open Mind</i> , Associate Editor	2015–2020
<i>Journal of Experimental Psychology: Learning, Memory, and Cognition</i> , Editorial Board	2018–2019
<i>eLife</i> , Reviewing Editor	2017–2018
<i>Attention, Perception, & Psychophysics</i> , Consulting Editor, Associate Editor	2014–2017
<i>Journal of Experimental Psychology: General</i> , 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

Princeton Conte Center, Executive Advisory Board	2023–
Vanderbilt Brain Institute, External Reviewer	2024
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

CIFAR Brain, Mind and Consciousness Program Meeting, Organizer	2024
Real-time Functional Imaging and Neurofeedback, Co-Organizer	2022
International Congress of Infant Studies, Abstract Review Panel Member	2022
Vision Sciences Society, Abstract Review Committee Member	2021–2022
CIFAR Early Developmental Neuroscience Catalyst Workshop, Co-Organizer	2018
Real-time Functional Imaging and Neurofeedback, Executive Committee	2017
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	National Science Foundation
Economic & Social Research Council (U.K.)	Natural Sci. & Eng. Research Council of Canada
Israel Science Foundation	Swiss National Science Foundation
National Institutes of Health	Vienna Science and Technology Fund

Ad Hoc Reviewing – Journals

Acta Psychologica	Journal of Neuroscience
Applied Cognitive Psychology	Journal of Neurophysiology
Attention, Perception, & Psychophysics	Journal of Vision
Brain and Language	Memory & Cognition
Brain Research	Nature
Cerebral Cortex	Nature Communications
Cognition	Nature Neuroscience
Cognitive Psychology	Nature Reviews Neuroscience
Cognitive Science	NeuroImage
Consciousness & Cognition	NeuroImage: Clinical
Cortex	Neuron
Current Biology	Neuropsychologia
Developmental Cognitive Neuroscience	Neuroscience Letters
Developmental Science	Perception
European Journal of Cognitive Psychology	Philosophical Transactions of the Royal Society
Frontiers in Developmental Psychology	Proceedings of the National Academy of Sciences
Human Brain Mapping	Psychological Science
Infant Behavior and Development	Psychonomic Bulletin & Review
Journal of Cognitive Neuroscience	PLoS Biology
Journal of Experimental Child Psychology	PLoS Computational Biology
Journal of Experimental Psychology (JEP): General	Quarterly Journal of Experimental Psychology
JEP: Human Perception and Performance	Scientific Reports
JEP: Learning, Memory, and Cognition	Science

Trends in Cognitive Sciences
Trends in Neurosciences
Vision Research

Visual Cognition

Society Memberships

Association for Psychological Science
Cognitive Neuroscience Society
International Congress of Infant Studies
Memory Disorders Research Society (elected)

Psychonomic Society (elected)
Society for Neuroscience
Society of Experimental Psychologists (elected)
Vision Sciences Society

Consulting

Liulishuo (LAIX)
Houghton Mifflin Harcourt - Learning Sciences

2017–2020

2019–2020

Lab Software

Brain Imaging Analysis Kit (BrainIAK)
BrainIAK Tutorials
NeuroPipe
Infant NeuroPipe
Experiment Menu

<https://brainiak.org>
<https://brainiak.org/tutorials>
<https://github.com/ntblab/neuropipe>
https://github.com/ntblab/infant_neuropipe
https://github.com/ntblab/experiment_menu

Teaching

Primary Instructor

Computational Methods in Human Neuroscience (undergrad/grad research methods course):
2018, 2019, 2021, 2022, 2023, 2024, 2025
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 Psychology (team-taught grad proseminar): 2022
Foundations of Neuroscience (team-taught grad course): most years 2017–2022
Foundations of Systems Neuroscience (team-taught grad course): most years 2018–2024
Interdepartmental Neuroscience Program Bootcamp (grad prep course): 2021
Neurotechnologies for Analysis of Neural Dynamics (grad lecture course): 2016
Princeton Neuroscience Institute Core Course (team-taught grad course): 2014–2016

Dissertation Defense Committees

2024: Kailong Peng; Dominik Garber
2023: Antonio Fonseca; Kathryn Graves; Tristan Yates
2022: Qi Lin; Paola Odriozola; Lauren Patrick; Angela Renton; Viola Mocz; Brynn Sherman; Michael Farruggia
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

2024: Krystian Loetscher
 2022: Kailong Peng; Antonio Fonseca; Michael Farrugia
 2021: Kathryn Graves; Tristan Yates; Viola Mocz
 2019: Qi Lin; Mike Farrugia; 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

Service

Yale University

Primary roles

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

Committees

Chair, Wu Tsai Institute Executive Committee	2021–
Chair, Wu Tsai Institute Hiring Committee	2021–
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	2017–2023
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, International Alliance of Research Universities	2024
Host, Sterling Fellows Lunch	2024
Presenter, Yale University Council	2024
Presenter, Yale Corporation	2024
Organizer, 100 College Street Building Dedication	2023
Speaker, School of Medicine Scientific Advisory Board	2022

Speaker, School of Medicine Chairs' Retreat	2022
Moderator, Campaign Launch Neuroscience Panel	2021
Speaker, Yale Sterling Fellows	2021
Panelist, Yale 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
Presenter, Coalition for National Science Funding (Washington, DC)	2019
Speaker, Yale 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

Primary roles

Associate Chair, Psychology	2015–2016
Cognitive Area Coordinator, Psychology	2012–2015

Committees

Member, Princeton Committee on Conference and Faculty Appeal	2014–2017
Member, Canadian Studies Executive Committee	2015–2016
Chair, Psychology Undergraduate Curriculum Committee	2014–2016
Member, Provost's Priorities Committee	2014–2016
Member, Cognitive. Science Executive Committee	2014–2016
Member, PNI Computing Steering Committee	2014–2016
Member, PICSciE Research Computing Advisory Group	2014–2016
Member, Psychology Graduate Curriculum Committee	2014
Member, Developmental Psychology Faculty Search	2013–2014
Member, Psychology Major Junior Paper Committee	2012–2013
Member, PNI Scanner Instrumentation Committee	2010–2014
Member, Princeton Committee on the Library and Computing	2010–2013
Member, Princeton Institutional Review Board for Human Subjects	2010–2013
Member, Cognitive Psychology Faculty Search	2010–2012
Member, Psychology Graduate Student Recruitment Committee	2010–2011
Member, SEAS Essig-Enright and Pyne Grants Panel	2011

Other activities

Faculty Fellow, Butler College	2012–2017
Keynote, Princeton Class Leadership Conference Dinner	2015
Speaker, Presidential Retreat on the Natural Sciences	2015
Speaker, Psychology Graduate Student Orientation	2011, 2012, 2014
Panelist, SEAS Strategic Planning Workshop	2014
Speaker, PNI/PSH Building Dedication	2014
Speaker, Psychology Graduate Alumni Reunion	2013
Keynote, Princeton Alumni Association of Canada Dinner	2013
Faculty Advisor & Fellow, Forbes College	2010–2012
Participant, Humanities Council Faculty Seminar	2012
Speaker, Class of '68 Alumni Seminar	2011
Presenter, Psychology Class Day	2010