Nicholas B. Turk-Browne

Curriculum Vitae
July 2017

Contact Information

Department of Psychology
Yale University
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Academic Appointments

Yale University

Professor, Department of Psychology	2017–
Affiliated Faculty, Child Study Center, Cognitive Science Program, Interdepartmental Neuroscience Program	2017–

Princeton University

Professor, Department of Psychology	2016–2017
Associated Faculty, Princeton Institute for Computational Science & Engineering	2014–2017
Associated Faculty, Princeton Neuroscience Institute	2011–2017
Associate Professor (tenured), Department of Psychology	2014–2016
Assistant Professor, Department of Psychology	2009–2014

Education

Ph.D.	Yale University	Cognitive Psychology (co-advisors: Marvin Chun & Brian Scholl)	2009
M.Phil.	Yale University	Cognitive Psychology	2006
M.S.	Yale University	Cognitive Psychology	2005
H.B.Sc.	University of Toronto	Cognitive Science/Artificial Intelligence (advisor: Jay Pratt)	2004

Awards & Fellowships (selected)

Senior Fellow, Canadian Institute for Advanced Research	2016–2020
Young Investigator Award, Cognitive Neuroscience Society	2017
Young Investigator Award, Vision Sciences Society	2016
Distinguished Scientific Award for Early Career Contribution to Psychology American Psychological Association	2015
Robert L. Fantz Memorial Award, American Psychological Foundation	2014

Lawrence S. Brodie University Preceptor, Princeton University   2012–2015

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)   2005–2008
Natural Sciences and Engineering Research Council of Canada

Masters Postgraduate Scholarship (foreign)   2004–2005
Natural Sciences and Engineering Research Council of Canada

Research Interests

General Areas

Perception and Attention
Learning and Memory

Current Topics (selected)

Statistical Learning: *How do we learn the structure of the world and use it for prediction?*
Memory-Guided Attention: *How can attention both control and be controlled by memory?*
Background Connectivity: *How do brain networks reconfigure to support tasks and goals?*
Early Development: *What is the functional architecture of the infant and toddler brain?*

Techniques

Behavioral psychophysics
Functional brain imaging
Patients with brain damage
Theoretical modeling
Computational analysis

Research Grants

National Institutes of Health   (R01 MH069456)   2016–2021
Title: Computational, neural, and behavioral studies of competition-dependent learning
Role: PI (w/ Ken Norman)   Total: $ 2,343,192

Intel Corporation   2015-2018
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   (ACI1440750)   2014–2016
Title: A software-defined campus network for big-data sciences
Role: co-PI   Total: $ 399,776

David A. Gardner '69 Magic Project, Humanities Council, Princeton University   2015
Title: Drawing as a window into the mind
Role: co-PI   Total: $ 25,750

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   (BCS1229597)   2012–2015
Abbrev. title: Cluster for multivariate real-time and whole-brain correlation analysis
Role: co-PI   Total: $ 527,978 (+ $ 560,000 in-kind donation from 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

David A. Gardner '69 Magic Project, Humanities Council, Princeton University   2013
Title: Explain me this: how we learn what not to say
Role: co-PI   Total: $ 15,000

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

Aly, M., & Turk-Browne, N. B. (in press). Flexible weighting of diverse inputs makes hippocampal function malleable. *Neuroscience Letters*.

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

deBettencourt, M. T., Norman, K. A., & Turk-Browne, N. B. (in press). Forgetting from lapses of sustained attention. *Psychonomic Bulletin & Review*.

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

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

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.

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.

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.

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

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.

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.

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.

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.

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.

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

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.

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.

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.

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

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.

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.

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.

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.

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.

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

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.

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

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

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.

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.

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

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

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

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.

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

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.

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

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.

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.

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.

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.

Chun, M. M., Golomb, J. D., & Turk-Browne, N. B. (2011). A taxonomy of external and internal attention. *Annual Review of Psychology, 62*, 73-101.

Zhao, J., Ngo, N., McKendrick, R., & Turk-Browne, N. B. (2011). Mutual interference between statistical summary perception and statistical learning. *Psychological Science, 22*, 1212-1219.

Zhao, J., & Turk-Browne, N. B. (2011). Incidental encoding of numerosity in visual long-term memory. *Visual Cognition, 19*, 928-955.

Turk-Browne, N. B., Norman-Haignere, S. V., & McCarthy, G. (2010). Face-specific resting functional connectivity between the fusiform gyrus and posterior superior temporal sulcus. *Frontiers in Human Neuroscience, 4*, 176.

Turk-Browne, N. B., Scholl, B. J., Johnson, M. K., & Chun, M. M. (2010). Implicit perceptual anticipation triggered by statistical learning. *Journal of Neuroscience, 30*, 11177-11187.

Turk-Browne, N. B., & Scholl, B. J. (2009). Flexible visual statistical learning: Transfer across space and time. *Journal of Experimental Psychology: Human Perception and Performance, 35*, 195-202.

Turk-Browne, N. B., Scholl, B. J., Chun, M. M., & Johnson, M. K. (2009). Neural evidence of statistical learning: Efficient detection of visual regularities without awareness. *Journal of Cognitive Neuroscience, 21*, 1934-1945.

Leber, A. B., Turk-Browne, N. B., & Chun, M. M. (2008). Neural predictors of moment-to-moment fluctuations in cognitive flexibility. *Proceedings of the National Academy of Sciences, 105*, 13592-13597.

Turk-Browne, N. B., Isola, P. J., Scholl, B. J., & Treat, T. A. (2008). Multidimensional visual statistical learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 34*, 399-407.

Turk-Browne, N. B., Scholl, B. J., & Chun, M. M. (2008). Habituation in infant cognition and functional neuroimaging. *Frontiers in Human Neuroscience, 2*, 16.

Yi, D. J., Turk-Browne, N. B., Flombaum, J. I., Kim, M. S., Scholl, B. J., & Chun, M. M. (2008). Spatiotemporal object continuity in human ventral visual cortex. *Proceedings of the National Academy of Sciences, 105*, 8840-8845.

Yi, D. J., Turk-Browne, N. B., Johnson, M. K., & Chun, M. M. (2008). When a thought equals a look: Refreshing enhances perceptual encoding. *Journal of Cognitive Neuroscience, 20*, 1371-1380.

Chun, M. M., & Turk-Browne, N. B. (2007). Interactions between attention and memory. *Current Opinion in Neurobiology, 17*, 177-184.

Firestone, A., Turk-Browne, N. B. & Ryan, J. D. (2007). Age-related deficits in face recognition are related to underlying changes in scanning behavior. *Aging, Neuropsychology and Cognition, 14*, 594-607.

Ryan, J. D., Leung, G., Turk-Browne, N. B., & Hasher, L. (2007). Assessment of age-related changes in inhibition and binding using eye movement monitoring. *Psychology & Aging, 22*, 239-250.

Turk-Browne, N. B., Yi, D. J., Leber, A. B., & Chun, M. M. (2007). Visual quality determines the direction of neural repetition effects. *Cerebral Cortex, 17*, 425-433.

Xu, Y., Turk-Browne, N. B., & Chun, M. M. (2007). Dissociating task performance from fMRI repetition attenuation in ventral visual cortex. *Journal of Neuroscience, 27*, 5981-5985.

Turk-Browne, N. B., Yi, D. J., & Chun, M. M. (2006). Linking implicit and explicit memory: Common encoding factors and shared representations. *Neuron, 49*, 917-927.

Turk-Browne, N. B., Jungé, J. A., & Scholl, B. J. (2005). The automaticity of visual statistical learning. *Journal of Experimental Psychology: General, 134*, 552-564.

Turk-Browne, N. B., & Pratt, J. (2005). Attending to eye movements and retinal eccentricity: Evidence for the activity distribution model of attention reconsidered. *Journal of Experimental Psychology: Human Perception and Performance, 31*, 1061-1066.

Pratt, J., & Turk-Browne, N. B. (2003). The attentional repulsion effect in perception and action. *Experimental Brain Research, 152*, 376-382.

Book Chapters, Commentaries, & Proceedings

Aly, M., & Turk-Browne, N. B. (2017). How hippocampal memory shapes, and is shaped by, attention. Chapter in D. E. Hannula & M. C. Duff (Eds.), *The Hippocampus from Cells to Systems* (pp. 369-403). Springer.

Wang, Y., *et al.* (2016). Real-time full correlation matrix analysis of fMRI data. Paper on presentation at *IEEE International Conference on Big Data*.

Fan, J. E., Yamins, D. L. K., & Turk-Browne, N. B. (2015). Common object representations for visual recognition and production. Paper on presentation at *Cognitive Science Society*.

Schapiro, A. C., & Turk-Browne, N. B. (2015). Statistical learning. Chapter in A. W. Toga & R. A. Poldrack (Eds.), *Brain Mapping: An Encyclopedic Reference* (pp. 501-506). Academic Press.

Wang, Y., *et al.* (2015). Optimizing full correlation matrix analysis of fMRI data on Intel Xeon Phi coprocessors. Paper on presentation at *Supercomputing*.

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.

Johnson, M. A., Turk-Browne, N. B., & Goldberg, A. E. (2013). Prediction plays a key role in language development as well as processing. Commentary in *Behavioral and Brain Sciences, 36*, 32-33.

Turk-Browne, N. B. (2012). Statistical learning and its consequences. Chapter in M. D. Dodd & J. H. Flowers (Eds.), *The Influence of Attention, Learning, and Motivation on Visual Search* (pp. 117-146). Springer.

Turk-Browne, N. B. (2012). Statistical learning in perception. Chapter in N. M. Seel (Ed.), *Encyclopedia of the Sciences of Learning* (pp. 3182-3185). Springer.

Scholl, B. J., & Turk-Browne, N. B. (2010). Statistical learning. Chapter in B. Goldstein (Ed.), *Encyclopedia of Perception* (pp. 935-938). Sage Publications.

Zhao, J., & Turk-Browne, N. B. (2010). The perception of number from long-term memory. Paper on presentation at *Cognitive Science Society*.

Chun, M. M., & Turk-Browne, N. B. (2008). Associative learning mechanisms in vision. Chapter in S. J. Luck & A. Hollingworth (Eds.), *Visual Memory* (pp. 209-245). Oxford University Press.

Craik, F. I. M., & Turk-Browne, N. B. (2007). The effects of attention and emotion on memory for context. Chapter in J.S. Nairne (Ed.), *The Foundations of Remembering: Essays in Honor of Henry L. Roediger III* (pp. 159-170). Psychology Press.

Conference Presentations (last three years)

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.

Invited Colloquia

Cognitive Science	Tufts University	Mar 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

Taiwan Cognitive Neuroscience Society	Taipei, Taiwan	Jan 2018
Future Forum	Beijing, China	Oct 2017
Future Forum	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

eLife, Reviewing Editor	2017–
Open Mind, Associate Editor	2015–
Visual Cognition, Consulting Editor	2012–
Attention, Perception, & Psychophysics, Associate Editor	2015–2017
Attention, Perception, & Psychophysics, Consulting Editor	2014
Journal of Experimental Psychology: General, Special Section Co-organizer	2013

Conference Planning

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

Advisory Boards

National Academies Committee on Reducing Counterfeiting Using the Behavioral Sciences	2016–
APA Early Career Award Selection Committee	2016

Ad Hoc Reviewing – Awards and Grants

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
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 Communications
Nature Neuroscience
Nature Reviews Neuroscience
NeuroImage
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
Vision Research
Visual Cognition

Society Memberships

American Psychological Association
Association for Psychological Science
Memory Disorders Research Society (elected)

Psychonomic Society (elected)
Society for Neuroscience
Vision Sciences Society

Software Development

Brain Imaging Analysis Kit (BrainIAK)   http://brainiak.org
NeuroPipe   http://ntblab.github.io/neuropipe

Mentoring

Postdoctoral Fellows

Peter Kok (2016–)
        Research: Neural sources of prediction
        Honors: *Rubicon Fellowship*, Netherlands Organisation for Scientific Research (2016–2018)

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

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

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

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

Graduate Students

Lena Skalaban (2016–)
> Research: Learning and memory over development

Cameron Ellis (2014–)
> Research: Early developmental neuroimaging

Victoria Jackson-Hanen (2014– ; primary advisor: Kenneth Norman)
> Research: Associating and forgetting object features

Matthew Panichello (2013– ; primary advisor: Timothy Buschman)
> Research: Perception as fusion of sensation and expectation
> Honors: *Graduate Fellowship*, NDSEG (2015-2018)

Natalia Córdova (2012–2017)
> Research: Relational attention and perception
> Honors: *Quin Morton Fellowship*, Princeton University (2016–2017)
> After Princeton: *Lecturer*, Princeton University (2017–)

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 Princeton: *Postdoctoral Fellow*, Stanford University (2017–)

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

Ghootae Kim (2011–2016; co-advisor: Kenneth Norman)
    Research: Context-based visual prediction
    After Princeton: *Postdoctoral Fellow*, University of Oregon (2016–)

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 Princeton: *Postdoctoral Fellow*, Harvard Medical School (2015–)

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 Princeton: *Assistant Professor*, University of British Columbia (2013–)

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

Dissertation Defense Committees
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
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
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

Undergraduate Students (selected)
Jarryd Osborne (Princeton '18)
Emily Avery (Princeton '17)   multiple poster presentations at conferences
Sahiba Singh (Princeton '16)   co-winner Neuroscience thesis prize
Felicia Ng (Princeton '15)   graduate student at Carnegie Mellon
Sarah Pak (Princeton '15)   poster presentations at *SfN* and *VSS '12*
Morgan Taylor (Princeton '15)   research assistant at University of Maryland

Lisa Yankowitz (Princeton '13)	graduate student at UPENN
Lauren Kustner (Princeton '11)	thesis work published in *Current Biology*
Harrison Korn (Yale '11)	poster presentation at *SfN '09*
Riana Betzler (Yale '10)	poster presentation at *VSS '09*
Samuel Norman-Haignere (Yale '10)	graduate student at MIT
Phillip Isola (Yale '08)	graduate student at MIT, postdoc at Berkeley

Lab Staff (selected)

Lindsay Rait (2017–)	
Jennifer Bu (2017–)	
Chandra Greenberg (2015–)	
Nate Wilson (2014–2015)	now graduate student at USF
Victoria Jackson-Hanen (2012–2014)	now graduate student at Princeton University
Alexa Tompary (2010–2012)	now graduate student at New York University
Nhi Ngo (2010–2011)	now graduate student at Brandeis University
Ryan McKendrick (2009–2010)	now graduate student at George Mason University

Teaching

Introduction to Psychology, PSY101 (undergrad lecture/lab course)	2013,2015
Visual Aesthetics, Junior Lab (undergrad lab course)	2012
Research Seminar in Cognitive Psychology, PSY543 (area seminar)	2011,2012
Visual Cognition, PSY305 (undergrad lecture course)	2011
Proseminar in Cognitive Psychology, PSY501 (grad lecture course)	2009,2010,2012,2014,2016

Service

Yale University

Primary roles

Co-Director of Undergraduate Studies, Neuroscience Major	2017–

Committees

Chair, Central Campus Scanner Governance Committee	2017–
Member, Neuroscience Major Curriculum Committee	2017–
Member, INP Graduate Student Curriculum Committee	2017–

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

University-wide

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