

# Nicholas C. Hindy

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## ACADEMIC APPOINTMENTS

Assistant Professor – August 2017 – Present  
Department of Psychological and Brain Sciences, University of Louisville

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## EDUCATION

Postdoctoral Research Fellow (Princeton University) – 2012 – 2017  
advisor: Nicholas B. Turk-Browne

Ph.D. University of Pennsylvania (Psychology) – 2012  
advisor: Sharon L. Thompson-Schill

M.A. University of Pennsylvania (Psychology) – 2008

B.A. Cornell University (Psychology/Cognitive Studies) – 2007  
Magna Cum Laude

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## FELLOWSHIPS & AWARDS

NIH/NEI Ruth L. Kirschstein NRSA Postdoctoral Fellowship – 2013 – 2016

NIH/NEI Clinical Research Loan Repayment Program Award – 2014 – 2016

NSF Graduate Research Fellowship – 2009 – 2012

Summer Institute in Cognitive Neuroscience Fellowship – 2011

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## PUBLICATIONS

**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. (Selected as Feature Article for May 2016)

Solomon, S.H., **Hindy, N.C.**, Altmann, G.A., & Thompson-Schill, S.L. (2015). Competition between mutually exclusive object states in event comprehension. *Journal of Cognitive Neuroscience*, *27*, 2324–2338.

**Hindy, N.C.**, Solomon, S.H., Altmann, G.A., & Thompson-Schill, S.L. (2015). A cortical network for the encoding of object change. *Cerebral Cortex*, *25*, 884-894.

**Hindy, N.C.**, Altmann, G.A., Kalenik, E., & Thompson-Schill, S.L. (2012). The effect of state changes on event cognition: Do objects compete with themselves? *Journal of Neuroscience*, *32*, 5795-5803.

**Hindy, N.C.**, Hamilton, R., Houghtling, A.S., Coslett, H.B., Thompson-Schill, S.L. (2009). Computer-mouse movements reveal TMS disruptions of prefrontal function during semantic retrieval. *Journal of Neurophysiology*, *102*, 3405-3413.

Farmer, T.A., Cargill, S.A., **Hindy, N.C.**, Dale, R., Spivey, M.J. (2007). Tracking the continuity of language comprehension: Computer-mouse trajectories suggest parallel syntactic processing. *Cognitive Science*, *31*, 889-909.

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## CONFERENCE PROCEEDINGS AND PRESENTATIONS

Ekves, Z., Paz-Alonso, P.M., **Hindy, N.C.**, Solomon, S.H., & Altmann, G.T.M. (2017). Functional connectivity between cognitive control and episodic memory systems in event comprehension. To be presented at the Annual Meeting of the Society for the Neurobiology of Language, November.

**Hindy, N.C.**, Avery, E. W., & Turk-Browne, N. B. (2017). Semantic knowledge and action-based visual prediction. Presented at the Annual Meeting of Vision Sciences Society, May. St. Pete Beach.

**Hindy, N.C.**, Avery, E. W., & Turk-Browne, N. B. (2016). Action-based prediction for known and novel associations between real-world objects. Presented at the Annual Meeting of the Society for Neuroscience, November. San Diego.

**Hindy, N.C.**, Ng, F.N., & Turk-Browne, N.B. (2016). Action-based prediction in the hippocampus. Presented at the Context and Episodic Memory Symposium, May. Philadelphia.

Ekves, Z., Paz-Alonso, P. M., **Hindy, N.C.**, Solomon, S. Altmann, G. (2016). Language, events, and the hippocampus: types, tokens, and token-states. Presented at the Annual Cognitive Neuroscience Society Meeting, April. New York.

**Hindy, N.C.**, Ng, F.N., & Turk-Browne, N.B. (2015). Action-based predictive coding from different timescales of memory. Presented at the Annual Meeting of the Society for Neuroscience, October. Chicago.

**Hindy, N.C.**, Ng, F.N., & Turk-Browne, N.B. (2015). Neural sources of prediction in visual cortex. Presented at the Annual Meeting of Vision Sciences Society, May. St. Pete Beach.

**Hindy, N.C.**, Ng, F.N., & Turk-Browne, N.B. (2014). Linking predictive coding in visual cortex to object representations in the medial temporal lobe. Presented at the Annual Meeting of Vision Sciences Society, May. St. Pete Beach.

**Hindy, N.C.**, Ng, F.Y., Turk-Browne, N.B. (2013). Action-based binding of object states in human medial temporal lobe. Presented at the Annual Meeting of the Society for Neuroscience, November. San Diego.

Solomon, S.H., **Hindy, N.C.**, Altmann, G.A., & Thompson-Schill, S.L. (2013). Single and multiple object tracking in event comprehension. Presented at the Annual Meeting of the Psychonomic

Society, November. Toronto.

**Hindy, N.C.**, Turk-Browne, N.B. (2013). Action-specific predictive coding of object states. Presented at the Vision Sciences Society Conference, May. Naples.

**Hindy, N.C.**, Altmann, G.A., Kalenik, E., & Thompson-Schill, S.L. (2012). Object state-change predicts neural similarity of visual representations before and after a described event. Presented at the Vision Sciences Society Conference, May. Naples.

**Hindy, N.C.**, Altmann, G.A., Kalenik, E., & Thompson-Schill, S.L. (2011). Contrast-based interference between object representations during event comprehension. Presented at the Rovereto Workshop on Concepts, Actions, and Objects: Functional and Neural Perspectives. Rovereto, Italy.

**Hindy, N.C.**, Coslett, H.B., & Thompson-Schill, S.L. (2011). Cross-method comparisons reveal new hypotheses in cognitive neuroscience. Presented at the Annual Cognitive Neuroscience Society Meeting, April. San Francisco.

Altmann, G.A., **Hindy, N.C.**, Kalenik, E., & Thompson-Schill, S.L. (2011). LIFG resolves competition between representations of an object before and after an event. Presented at the Annual Cognitive Neuroscience Society Meeting, April. San Francisco.

Altmann, G.A., **Hindy, N.C.**, Kalenik, E., & Thompson-Schill, S.L. (2011). Event comprehension and competition between multiple representations of the same object. Presented at the Annual CUNY Sentence Processing Conference, April. Stanford.

**Hindy, N.C.**, Altmann, G.A., & Thompson-Schill, S.L. (2010). The effect of state changes on event cognition: Do objects compete with themselves? Presented at the Annual Meeting of the Psychonomic Society, November. St. Louis.

**Hindy, N.C.**, Houghtling, A.S., Hamilton, R., Coslett, H.B., & Thompson-Schill, S.L. (2008). Do distinct regions of ventrolateral prefrontal cortex play different roles in cognitive control? A transcranial magnetic stimulation (TMS) test of neuroimaging findings. Presented at the Annual Meeting of the Society for Neuroscience, November. Washington, DC.

**Hindy, N.C.**, & Spivey, M.J. (2008). Motor dynamics of task switching. *Proceedings of the 30<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 2474-2479).

Farmer, T.A., Cargill, S.A., **Hindy, N.C.**, Dale, R., & Spivey, M.J. (2006). Streaming x,y coordinates imply continuous interaction during on-line syntactic processing. *Proceedings of the 28<sup>th</sup> Annual Conference Meeting of the Cognitive Science Society* (pp. 208-213).

Dale, R., **Hindy, N.C.**, Spivey, M.J. (2006). Typicality gradients in lexical categorization revealed by graded manual responses. *Proceedings of the 28<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 1162-1167).

Farmer, T.A., Cargill, S.A., Dale, R., **Hindy, N.C.**, & Spivey, M.J. (2006). Mouse tracking the visual world: Streaming x,y coordinates imply continuous interaction during syntactic ambiguity resolution. Presented at the Annual CUNY Sentence Processing Conference, April. New York.

Maurer, U., Rossion, B., **Hindy, N.C.**, & McCandliss, B.D. (2006). Adaptation and spatial competition N170 effects do not apply to visual words. Presented at the Annual Cognitive Neuroscience Society Meeting, April. San Francisco.

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## **TEACHING EXPERIENCE**

Instructor (University of Louisville) – 2017 – Present  
courses: Introduction to Cognitive Neuroscience (Fall 2017), Introduction to Computer Programming for Psychology (Spring 2018)

Graduate Research Mentor (University of Louisville) – 2017 – Present  
student: William B. Corley

Undergraduate Research Mentor (University of Louisville) – 2017 – Present  
students: McKenzie Goodwyn, Mazura Ibragimova, Georgiana Sook, Kelly Stephens

Undergraduate Research Mentor (Princeton University) – 2013 – 2017  
students: Felicia Y. Ng, Emily W. Avery

Undergraduate Research Mentor (University of Pennsylvania) – 2008 – 2012  
students: Song-I Yang, Kara Cohen, Emily Kalenik

Teaching Assistant (University of Pennsylvania) – 2008 – 2009  
courses: Introduction to Cognitive Neuroscience, Introduction to Psychology

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## **AD HOC REVIEWING**

*Cerebral Cortex*  
*Journal of Cognitive Neuroscience*  
*Nature Communications*  
*NeuroImage*  
*Neuropsychologia*  
*Psychonomic Bulletin & Review*  
*Scientific Reports*

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## **ACTIVITIES & ACADEMIC MEMBERSHIPS**

Vision Sciences Society  
Cognitive Neuroscience Society  
Society for Neuroscience  
Phi Beta Kappa National Honor Society  
Psi Chi National Honor Society in Psychology