

## Jordan L. Poppenk

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*My research combines cognitive, neuroimaging, and computational approaches to investigate human memory retrieval, its consequences, and the brain structures that support and mediate these, especially the hippocampus and its direct connections.*

### Academic career

2014-	<b>Assistant Professor and Canada Research Chair in Cognitive Neuroimaging</b>	<u>Queen's University</u> Dept. of Psychology & Centre for Neuroscience Studies
2011-2014	<b>Post-doctoral Research Fellow</b> <i>Enhanced forgetting of unwanted memories through fMRI-based retrieval monitoring</i>	<u>Princeton University</u> Advisor: Kenneth Norman
2007-2011	<b>Ph.D. Psychology</b> <i>Revisiting cognitive and neuropsychological novelty effects</i>	<u>University of Toronto</u> Advisors: Morris Moscovitch & Anthony McIntosh
2005-2007	<b>M.A. Psychology</b> <i>Why is novel information remembered well? A test of the novelty effect and its mechanisms</i>	<u>University of Toronto</u> Advisors: Morris Moscovitch & Anthony McIntosh
2001-2005	<b>B.Sc. (Hons.) Psychology</b> <i>The neural substrates of the verbatim effect for auditorily apprehended information: revealed with fMRI</i>	<u>University of Western Ontario</u> Advisor: Stefan Köhler

### Financial awards

2014	Canada Research Chair, Tier 2, \$500,000/5 yrs
2013	Cermak Postdoctoral Travel Award, <i>Memory Disorders Research Society</i> , \$500
2011-13	NSERC Post-Doctoral Fellowship, \$80000 / 2 yrs
2007-10	NSERC Post-Graduate Scholarship – Doctoral, \$63000 / 3 yrs
2009	Adel S. Sedra Graduate Finalist, <i>University of Toronto</i> , \$1000
2008	Adel S. Sedra Graduate Finalist, <i>University of Toronto</i> , \$1000
2008	Travel Sponsorship, <i>UCLA Institute of Pure and Applied Mathematics</i> , \$2000
2006	Graduate Students Present, <i>Cognitive Neuroscience Society</i> , \$500

2005	Ontario Graduate Scholarship, \$15000
2003-5	National In-Course Millennium Scholarship, \$10000 / 2 yrs
2004	NSERC Undergraduate Summer Research Award, \$4500
2004	In-Course Scholarship, <i>University of Western Ontario</i> , \$700
2001	Scholarship of Excellence, <i>University of Western Ontario</i> , \$2000

## Academic Honours

2009	<b>Psychological Science Superstars Award</b> , <i>American Psychological Association</i> Abstract selected for featured presentation.
2008	<b>Clarkson Laureate</b> , <i>Right Honourable Adrienne Clarkson, former Gov. Gen. of Canada</i> Award for meritorious public service.
2005	<b>W.J. McClelland Thesis Award</b> , <i>University of Western Ontario</i> Most outstanding Psychology Undergraduate Honours Thesis.

## Publications: peer-reviewed journals

1. **Poppenk, J.**, & Norman, K.A. (2014). Briefly cuing memories leads to suppression of their neural representations. *Journal of Neuroscience*, 34, 8010-8020.
2. **Poppenk, J.**, Evensmoen, H., Nadel, L., & Moscovitch, M. (2013). Long-axis specialization in the human hippocampus. *Trends in Cognitive Sciences*, 17, 230-40.
3. Chapman, H.A., Johannes, K., **Poppenk, J.**, Moscovitch, M. & Anderson, A.K. (in press). Evidence for the differential salience of disgust and fear in episodic memory. *Journal of Experimental Psychology: General*.
4. **Poppenk, J.**, & Norman, K.A. (2012). Familiarization helps contextual features stick to item features: A multi-voxel pattern analysis study. *Neuropsychologia*, 50, 3015-26.
5. **Poppenk, J.**, & Moscovitch, M. (2011). A hippocampal marker of recollection memory ability among healthy young adults: contributions of posterior and anterior segments. *Neuron*, 6, 931-937.
6. O'Neil, E., Protzner, A., McCormick, C., McLean, A., **Poppenk, J.**, Cate, A., & Köhler, S. (2011). Distinct patterns of functional connectivity between perirhinal cortex and other cortical regions in recognition memory and perceptual discrimination. *Cerebral Cortex*, 22, 74-85.
7. Bowles, B., O'Neil, E., Mirsattari, S., **Poppenk, J.**, & Köhler, S. (2011). Preserved hippocampal novelty responses following anterior temporal-lobe resection that impairs familiarity but spares recollection. *Hippocampus*, 21, 847-854.
8. **Poppenk, J.**, Köhler, S., & Moscovitch, M. (2010). Revisiting the novelty effect: When familiarity, not novelty, enhances memory. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 36, 1321-1330.
9. **Poppenk, J.**, McIntosh, A.R., Craik, F.I.M., & Moscovitch, M. (2010). Prior experience modulates the neural mechanisms of episodic memory formation. *Journal of Neuroscience*, 30, 4707-4716.
10. **Poppenk, J.**, Moscovitch, M., McIntosh, A.R., Ozcelik, E., & Craik, F.I.M. (2010). Encoding the future: Successful processing of intentions engages predictive brain networks. *NeuroImage*, 49, 905-913.

11. **Poppenk, J.**, Walia, G., Joannisse, M., McIntosh, A.R., & Köhler, S. (2008). Why is the meaning of sentences better remembered than their form? An fMRI study on the role of novelty-encoding processes. *Hippocampus*, 18, 909-18.

## Selected Talks

- 2014 Georgia Institute of Technology, The Ohio State University, Queen's University, and The University of Chicago.  
*Cognitive contributions and hippocampal substrates of long-term memory retrieval.*
- 2013 Memory Disorders Research Society. Toronto, Ontario.  
*Weakly cueing memories leads to suppression of their neural representations.*
- 2012 Memory Disorders Research Society. Davis, California.  
*Differential contributions of the anterior and posterior hippocampus to human memory.*
- 2011 University of Toronto Scarborough. Toronto, Ontario.  
*Influences of long-term memory on human cognitive and neural dynamics.*
- 2009 American Psychological Association. Toronto, Ontario.  
*Familiarity enhances memory by facilitating deeper processing.*
- 2008 Rotman Research Institute (Rotman Rounds). Toronto, Ontario.  
*Does experience change the way we make memories?*
- 2006 Cognitive Neuroscience Society. San Francisco, California.  
*Why is form poorly remembered? An fMRI study on the role of novelty-encoding processes.*

## Conference Presentations

- Poppenk, J.**, & Norman, K.A. (2013). Briefly cueing memories leads to suppression of their neural representations. Poster presented at the annual meetings of the *Society for Neuroscience*, San Diego, CA, and *Psychonomics*, Toronto, Ontario.
- Lositsky, O., Toker, D., Chen, J., Honey, C. J., **Poppenk, J.**, Hasson, U., & Norman, K.A. (2013). Time perception and contextual drift with a naturalistic stimulus. Poster presented at the annual meeting of the *Society for Neuroscience*, San Diego, CA.
- Poppenk, J.**, & Norman, K.A. (2012). Moderate reactivation of cued associates leads to forgetting in an RSVP task. Poster presented at the annual meeting of the *Society for Neuroscience*. New Orleans, L.A.
- Poppenk, J.**, & Norman, K.A. (2011). Familiarization helps contextual features stick to item features: A multi-voxel pattern analysis study. Poster presented at the 2011 annual meeting of the *Society for Neuroscience*. Washington, D.C.
- Bakker, N., **Poppenk, J.**, & Moscovitch, M. (2011). Anterior and posterior hippocampus are embedded in different structural networks: Implications for dual-system models of recognition memory. Poster presented at the annual meeting of the *Canadian Psychological Association*. Toronto, Ontario.
- Poppenk, J.**, & Moscovitch, M. (2010). Why are encounters with familiar materials remembered best? Contributions of semantic and episodic retrieval networks. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*. Montreal, Quebec.

- Poppenk, J., & Moscovitch, M. (2009).** Enhanced by experience: Superior source memory for familiar over novel scenes is associated with posterior hippocampal activation at encoding. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*. San Francisco, California.
- O'Neil, E., Bowles, B., **Poppenk, J., & Köhler, S. (2009).** Distinct patterns of functional connectivity between perirhinal cortex and other cortical regions in recognition memory and perceptual discrimination. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*. San Francisco, California.
- Poppenk, J., Köhler, S., & Moscovitch, M. (2008).** Revisiting the novelty effect: When familiarity, not novelty, enhances memory. Poster presented at the annual meeting of the *Canadian Society for Brain, Behaviour and Cognitive Science*. London, Ontario.
- Poppenk, J., Talmi, D., Moscovitch, M., Anderson, A.K., & McIntosh, R. (2008).** Emotional modulation of the hippocampus by the amygdala: functional connectivity analysis supports an attention-gated dual pathway model. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*. San Francisco, California.
- Bowles, B., O'Neil, E., **Poppenk, J.,** Mirsattari, S., & Köhler, S. (2008). Direct fMRI evidence for preserved hippocampus functioning after partial removal of anterior temporal lobe input structures. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*. San Francisco, California.
- Poppenk, J., Köhler, S., Moscovitch, M., & McIntosh, A.R. (2007).** Sentence novelty induces increased hippocampal-prefrontal functional connectivity. Poster presented at the annual meeting of the *Cognitive Neuroscience Society*. New York, New York.

## Ad-hoc reviewer

**Journals:** Brain Research, Canadian Journal of Behavioural Science, Cerebral Cortex, Frontiers in Psychology, Hippocampus, Human Brain Mapping, Journal of Cognitive Neuroscience, Journal of Neurophysiology, Journal of Neuroscience, NeuroImage, Neuropsychologia, Neuropsychopharmacology, PNAS

## Teaching Experience

- 2013-2014 **Research mentor**, Princeton University
- One honors thesis student
- 2007-2010 **Research mentor**, University of Toronto
- Four independent project students
  - One research assistant
  - Three research volunteers
- 2005-2008 **Teaching Assistant**, University of Toronto
- *Cognitive Neuroscience* (with guest lecture)
  - *Theories of Psychopathology and Psychotherapy*
  - *Introduction to Psychology* (x2)
  - *Introduction to Cognition* (with guest lecture)
  - *Introduction to Learning* (with guest lecture)

## **Professional Affiliations**

Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS)

Cognitive Neuroscience Society (CNS)

Massey College

Society for Neuroscience (SFN)