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Department of Psychology and Neuroscience, Boston College
McGuinn Hall, Room 330, Chestnut Hill, MA 02467
sd.slotnick@bc.edu, 617-552-4188, sites.google.com/bc.edu/sd-slotnick

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N -A I

Family (wife, 18-year old daughter), Music (composition and theory; bass guitar, drums, guitar), Exercise (Shotokan Karate: 1st Dan, running, free weights, sailing) !

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E E

2017- Boston College, Psychology and Neuroscience Department, Professor
2020-2021 Scientist, Department of Veterans Affairs (Bedford, MA)
2011-2017 Boston College, Psychology and Department, Associate Professor
2005-2011 Boston College, Psychology Department, Assistant Professor

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Slotnick, S. D. (2013). *Controversies in Cognitive Neuroscience*. Palgrave Macmillan.

Edited Volumes

Slotnick, S. D. (Ed.). (2022).

!

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Slotnick, S. D. (2022). The hippocampus and long-term memory. *Cognitive Neuroscience*, 113–114.

Spets, D. S., & Slotnick, S. D. (2022). Sex is predicted by spatial memory multivariate activation patterns. *Learning & Memory*, 29, 297–301.

Spets, D. S., & Slotnick, S. D. (2022). It's time for sex in cognitive neuroscience. *Cognitive Neuroscience*, 1, 1–9.

Slotnick, S. D. (2021). Sex differences in the brain. *Cognitive Neuroscience*, 3–4, 103–105.

Spets, D. S., Fritch, H. A., Thakral, P. P., & Slotnick, S. D. (2021). High confidence spatial long-term memories produce greater cortical activity in males than females. *Cognitive Neuroscience*, 3–4, 112–119.

Spets, D. S., & Slotnick, S. D. (2021). Are there sex differences in brain activity during long-term memory? A systematic review and fMRI activation likelihood estimation meta-analysis. *Cognitive Neuroscience*, 3–4, 163–173.

Spets, D. S., Karanian, J. M., & Slotnick, S. D. (2021). False memories activate distinct brain regions in females and males. *NeuroImage: Reports*, 1, 100043.

Fritch, H. A., Thakral, P. P., Slotnick, S. D., & Ross, R. S. (2021). Distinct patterns of hippocampal activity associated with color and spatial source memory. *Hippocampus*, 31, 1039–1047.

Fritch, H. A., Spets, D. S., & Slotnick, S. D. (2021). Functional connectivity with the anterior and posterior hippocampus during spatial memory. *Hippocampus*, 31, 658–676.

Spets, D. S., Fritch, H. A., & Slotnick, S. D. (2021). Sex differences in hippocampal connectivity during spatial long-term memory. *Hippocampus*, 31, 669–676.

Jeye, B. M., Kark, S. M., Spets, D. S., Moo, L. R., Kensinger, E. A., & Slotnick, S. D. (2021). Support for an inhibitory model of word retrieval. *Neuroscience Letters*, 755, 135876.

Spets, D. S., & Slotnick, S. D. (2020). Thalamic functional connectivity during spatial long-term memory and the role of sex. *Brain Sciences*, 10, 898.

Fritch, H. A., MacEvoy, S. P., Thakral, P. P., Jeye, B. M., Ross, R. S., & Slotnick, S. D. (2020). The anterior hippocampus is associated with spatial memory encoding. *Brain Research*, 1732, 146696.

!

!

Jeye, B. M., McCarthy, C. R., & Slotnick, S. D. (2020). Long-term memory specificity depends on inhibition of related items. *Memory*, 28, 261–269.

Kark, S. M., Slotnick, S. D., & Kensinger, E. A. (2020). Forgotten but not gone: fMRI evidence of implicit memory for negative stimuli 24 hours after the initial study episode. *Neuropsychologia*, 136, 107277.

Hopfinger, J. B., & Slotnick, S. D. (2020). Attentional control and executive function. *Cognitive Neuroscience*, 11, 1–4.!

!

Spets, D. S., & Slotnick, S. D. (2019). Similar patterns of cortical activity in females and males during item memory. *Brain and Cognition*, 135, 103581 (1–7).

Spets, D. S., Jeye, B. M., & Slotnick, S. D. (2019). Different patterns of cortical activity in females and males during spatial long-term memory. *Neuroimage*, 199, 626–634.

Karanian, J. M., & Slotnick, S. D. (2018). Confident false memories for spatial location are mediated by V1. *Cognitive Neuroscience*, 9, 139–150.

Jeye, B. M., MacEvoy, S. P., Karanian, J. M., & Slotnick, S. D. (2018). Distinct regions of the hippocampus are associated with memory for different spatial

!

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Karanian, J. M., & Slotnick, S. D. (2017). False memory for context and true memory for context similarly activate the parahippocampal cortex. *Cortex*, *91*, 79–88.

Thakral, P. P., Jacobs, C. M., & Slotnick, S. D. (2017). An attention account of neural priming. *Memory*, *25*, 856–864.

Jeye, B. M., Karanian, J. M., & Slotnick, S. D. (2017). The anterior prefrontal cortex and the hippocampus are negatively correlated during false memories. *Brain Sciences*, *7*, 13.

Jeye, B. M., Karanian, J. M., & Slotnick, S. D. (2016). Spatial memory activity distributions indicate the hippocampus operates in a continuous manner. *Brain Sciences*, *6*, 37.

Slotnick, S. D., Jeye, B. M., & Dodson, C. S. (2016). Recollection is a continuous process: Evidence from plurality memory receiver operating characteristics. *Memory*, *1*, 2–11.

Thakral, P. P., Kensinger, E. A., & Slotnick, S. D. (2016). Familiarity and priming are mediated by overlapping neural substrates. *Brain Research*, *1632*, 107–118.

Kark, S. M., Slotnick, S. D., & Kensinger, E. A. (2016). Repetition enhancement of amygdala and visual cortex functional connectivity reflects nonconscious memory for negative visual stimuli. *Journal of Cognitive Neuroscience*, *28*, 1933–1946.

Thakral, P. P., & Slotnick, S. D. (2015). The sensory timecourses associated with conscious visual item memory and source memory. *Behavioural Brain Research*, *290*, 143–151.

Karanian, J. M., & Slotnick, S. D. (2015). Memory for shape reactivates the lateral occipital complex. *Brain Research*, *1603*, 124–132.

Karanian, J. M., & Slotnick, S. D. (2014). False memory for context activates the parahippocampal cortex. *Cognitive Neuroscience*, *5*, 186–192.

Thakral, P. P., & Slotnick, S. D. (2014). Nonconscious memory for motion activates MT+. *NeuroReport*, *25*, 1326–1330.

Karanian, J. M., & Slotnick, S. D. (2014). The cortical basis of true memory and false memory for motion. *Neuropsychologia*, *54*, 53–58.

!

!

Slotnick, S. D. (2013). The nature of recollection in behavior and the brain. *NeuroReport, 24*, 663–670.

Slotnick, S. D., & Thakral, P. P. (2013). The hippocampus operates in a threshold manner during spatial source memory. *NeuroReport, 24*, 265–269.

Thakral, P. P., & Slotnick, S. D. (2013). The role of spatial attention during spatial encoding. *Cognitive Neuroscience, 4*, 73–80.

Thakral, P. P., Slotnick, S. D., & Schacter, D. L. (2013). Conscious processing during retrieval can occur in early and late visual regions. *Neuropsychologia, 51*, 482–487.

!

!

Slotnick, S. D. (2010). High density event-related potential data acquisition in Cognitive Neuroscience. *Journal of Visualized Experiments*, 38.

Thakral, P. P., & Slotnick, S. D. (2010). Attentional inhibition mediates inattentive blindness. *Consciousness and Cognition*, 19, 636–643.

Slotnick, S. D. (2009). Rapid retinotopic reactivation during spatial memory. *Brain Research*, 1268, 97–111.

Slotnick, S. D. (2009). Memory for color reactivates color processing region. *NeuroReport*, 20, 1568–1571.

Thakral, P. P., & Slotnick, S. D. (2009). The role of parietal cortex during sustained visual spatial attention. *Brain Research*, 1202, 157–166.

Thompson, W. L., Slotnick, S. D., Burrage, M. S., & Kosslyn, S. M. (2009). Two forms of spatial imagery: Neuroimaging evidence. *Psychological Science*, 20, 1245–1253.

Ross, R. S., & Slotnick, S. D. (2008). The hippocampus is preferentially associated with memory for spatial context. *Journal of Cognitive Neuroscience*, 20, 432–446.

Moo, L. R., Emerton, B. C., & Slotnick, S. D. (2008). Functional MT+ lesion impairs contralateral motion processing. *Cognitive Neuropsychology*, 25, 677–689.

Slotnick, S. D. (2008). Imagery: Mental pictures disrupt perceptual rivalry. *Current Biology*, 18, R603–605.

Dodson, C. S., Bawa, S., & Slotnick, S. D. (2007). Aging, source memory, and misrecollections. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 33, 169–181.

Slotnick, S. D., & Schacter, D. L. (2007). The cognitive neuroscience of memory and consciousness. In P.D. Zelazo, M. Moscovitch, & E. Thompson (Eds.), *Cambridge handbook of consciousness* (pp. 809–827). New York: Cambridge University Press.

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!

Slotnick, S. D., & Schacter, D. L. (2006). The nature of memory related activity in early visual areas. *Neuropsychologia*, *44*, 2874–2886.

!

!

Schacter, D. L., & Slotnick, S. D. (2004). The cognitive neuroscience of memory distortion. *Neuron, 44*, 149–160.

Liu, T., Slotnick, S. D., & Yantis, S. (2004). Human MT+ mediates perceptual filling-in during apparent motion. *NeuroImage, 21*, 1772–1780.

Slotnick, S. D. (2004). Source localization of ERP generators. In T. C. Handy (Ed.), *Event-Related Potentials: A Methods Handbook* (pp. 149–166). Cambridge: The MIT Press.

Slotnick, S. D., Moo, L. R., Segal, J. B., & Hart, J. (2003). Distinct prefrontal cortex

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Russo, T. R., Karanian, J. M., Jeye, B. M., & Slotnick, S. D. (2018). The effects of selective retrieval and selective suppression on memory for color. Poster at the Psychonomic Society Conference.

Jeye, B. M., & Slotnick, S. D. (2018). Long-term memory specificity for faces depends on inhibition of closely related items. Poster at the Cognitive Neuroscience Society Conference.

Spets, D. S., & Slotnick, S. D. (2018). Sex differences in the brain during long-term item memory. Poster at the Cognitive Neuroscience Society Conference.

Karanian, J. M., & Slotnick, S. D. (2018). False memory for spatial location is mediated by V1. Poster at the Cognitive Neuroscience Society Conference.

McCarthy, C. R., Jeye, B. M., & Slotnick, S. D. (2018). Inhibition of distantly related items in long-term memory depends on the number of repetitions at encoding. Poster at the Cognitive Neuroscience Society Conference.

Russo, T. R., Karanian, J. M., Jeye, B. M., & Slotnick, S. D. (2018). The effects of selective retrieval and selective suppression on spatial memory. Poster at the Cognitive Neuroscience Society Conference.

Spets, D. S., Jeye, B. M., & Slotnick, S. D. (2017). Widely different patterns of

!

!

Karanian, J. M., Russo, T. R., & Slotnick, S. D. (2017). The effects of remembering and suppression on memory for spatial location. Poster at the Association for Psychological Science Conference.

Jeye, B. M., Karanian, J. M., & Slotnick, S. D. (2017). The anterior prefrontal cortex and the hippocampus are negatively correlated during false memories. Poster at the Cognitive Neuroscience Society Conference.

Karanian, J. M., & Slotnick, S. D. (2017). False memory for context and true memory for context similarly activate the parahippocampal cortex. Poster at the Cognitive Neuroscience Society Conference.

Kark, S. M., Sherman, S. M., Daley, R., Slotnick, S. D., & Kensinger, E. A. (2017). Neural correlates of true and false memory vividness. Poster at the Cognitive Neuroscience Society Conference.

Jeye, B. M., & Slotnick, S. D. (2016). Long-term memory specificity depends on detailed memory for specific items and inhibition of related items. Poster at the Psychonomic Society Conference.

Karanian, J. M., & Slotnick, S. D. (2016). True memories and false memories for visual information: A meta-analysis of retrieval-related activity in early and late visual processing regions. Poster at the Psychonomic Society Conference.

Karanian, J. M., & Slotnick, S. D. (2016). False memory for spatial location activates contralateral visual regions within 400 to 800 milliseconds. Poster at the Society for Neuroscience Conference.

Jeye, B. M., Karanian, J. M., & Slotnick, S. D. (2016). The hippocampus operates in a continuous manner during spatial memory. Poster at the Society for Neuroscience Conference.

Jeye, B. M., Karanian, J. M., & Slotnick, S. D. (2016). Place memory sub-regions in the human hippocampus. Poster at the Cognitive Neuroscience Society Conference.

Karanian, J. M., Jeye, B. M., & Slotnick, S. D. (2016). Detailed visual spatial memory produces retinotopic activity in early visual regions. Poster at the Cognitive Neuroscience Society Conference.

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!

Slotnick, S. D. (2016). The neural mechanisms of spatial memory. Talk at the Boston VA.

Karanian, J. M., & Slotnick, S. D. (2015). High confidence false memory for spatial context is mediated by the parahippocampal cortex. Poster at the Society for Neuroscience Conference.

Jeye, B. M., Karanian, J. M., Thakral, P. P., & Slotnick, S. D. (2015). Neural spatial memory ROCs indicate the hippocampus operates in a threshold manner. Poster at the Society for Neuroscience Conference.

Jeye, B. M., Karanian, J. M., & Slotnick, S. D. (2015). The hippocampus is preferentially associated with spatial memory for items in the left visual field. Poster at the Cognitive Neuroscience Society Conference.

Karanian, J. M., & Slotnick, S. D. (2015). Confident false memories for spatial

!

!

Karanian, J. M., & Slotnick, S. D. (2013). Memory for shape reactivates the lateral occipital complex. Poster at the Society for Neuroscience Conference.

Slotnick, S. D., & Thakral, P. P. (2013). Context memory and remembering recruit distinct neural substrates. Poster at the Society for Neuroscience Conference.

Karanian, J. M., & Slotnick, S. D. (2013). True memory and false memory for motion differentially activate the hippocampus and the parahippocampal cortex. Poster at the Cognitive Neuroscience Society Conference.

Karanian, J. M., & Slotnick, S. D. (2013). True memory and false memory for motion differentially activate the hippocampus and the parahippocampal cortex. Poster at the NEURON Conference. (Most Outstanding Graduate Poster Presentation)

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Thakral, P. P., & Slotnick, S. D. (2008). Evidence suggesting a functional–anatomic organization of parietal cortex during attentional control. Poster at the Cognitive Neuroscience Society Conference.

Tierney, K. P., Thakral, P. P., & Slotnick, S. D. (2008). The neural basis of attentional task set and cognitive control. Poster at the Cognitive Neuroscience Society Conference.

Slotnick, S. D. (2007). No recollection in recollection–based paradigms: ROC analysis supports a continuous (single–process) memory model. Talk at the Psychonomic Society Conference.

Slotnick, S. D. (2007). Memory for color reactivates color processing regions. Talk at the Society for Neuroscience Conference.

Thakral, P. P., & Slotnick, S. D. (2007). The neural basis of inattention blindness. Poster at the Society for Neuroscience Conference.

Moo, L. R., & Slotnick, S. D. (2007). Medial/anterior temporal lobe lateralization of memory for items versus their context. Talk at the Society for Neuroscience Conference.

Ross, R. S., Slotnick, S. D., & Schacter, D. L. (2007). Conscious–nonconscious memory boundary in visual regions is task dependent. Poster at the Society for Neuroscience Conference.

Thompson, W. L., Slotnick, S. D., & Kosslyn, S. M. (2007). Evidence for different networks in spatial mental imagery: Transformational and location memory processes. Poster at the Society for Neuroscience Conference.

Ross, R. S., & Slotnick, S. D. (2007). Color and spatial source memory activate unique sub–regions of the medial temporal lobe. Poster at the Cognitive Neuroscience Society Conference.

Grimes, J. A., & Slotnick, S. D. (2007). Spatial source memory ROCs support a continuous (single–process) model of memory. Poster at the Cognitive Neuroscience Society Conference.

Thakral, P., & Slotnick, S. D. (2007). Inattention blindness is mediated by attentional inhibition under high task load. Poster at the Cognitive Neuroscience Society Conference.

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Garoff–Eaton, R. J., Slotnick, S. D., & Schacter, D. L. (2005). Encoding of specific detail supports true and false recognition. Talk at the Society for Neuroscience Conference.

Garoff, R. J., Slotnick, S. D., & Schacter, D. L. (2005). The neural basis of gist–based and baseline false recognition. Poster at the Cognitive Neuroscience Society Conference.

Moore, C., Slotnick, S. D., & Schacter, D. L. (2005). Removal of noise in fMRI analysis through filtering multiple global effects. Poster at the Cognitive Neuroscience Society Conference.

Slotnick, S. D. (2004). On the nature of visual memory related cortical activity. Talk in the Memory Disorders Research Center, Boston University School of Medicine, and the Center for Molecular and Behavioral Neuroscience, Rutgers University.

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Moo, L.R., Slotnick, S. D., & Hillis A.E. (2004). fMRI following recovery from alexia without agraphia reveals recruitment of right hemisphere. Poster at the Cognitive Neuroscience Society Conference.

Slotnick, S. D. (2003). Neural effects and control of attentional inhibition. Talk in the Psychological and Brain Sciences Department, Dartmouth College, and the Neuroscience Department, Georgetown University.

Slotnick, S. D., & Schacter, D. L. (2003). The neural basis of true and false memory for visual shapes. Talk at the Society for Neuroscience Conference.

Moo, L. R., & Slotnick S. D. (2003). Dorsolateral prefrontal cortex activity supports a competition model of word retrieval. Poster at the Society for Neuroscience Conference.

Jackson, O., Slotnick, S. D., & Schacter, D. L. (2003). Using encoding related neural activity to predict subsequent memory performance. Poster at the Society for Neuroscience Conference.

Garoff, R. J., Slotnick, S. D., Koutstaal, W., & Schacter, D. L. (2003). Encoding origins of true and false memories: evidence from event-related fMRI. Poster at the Society for Neuroscience Conference.

Hart, J. Jr., & Slotnick, S. D. (2003). Thalamocortical evidence for a constructive memory framework. Poster at the Society for Neuroscience Conference.

Thompson, W. L., Slotnick, S. D., & Kosslyn, S.M. (2003). Visual imagery generated retinotopic maps. Poster at the Society for Neuroscience Conference.

Moo, L. R., & Slotnick, S. D. (2003). fMRI evidence of purely extrastriate basis for post-stroke quadrantanopia. Poster at the American Neurological Association Meeting.

Rauschenberger, R., Liu, T., Slotnick, S. D., & Y (t) () 0.2 (5 -1420T 0.1 (c) Tf () T.2 (e) -1480Tm /

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Moo, L. R., & Slotnick, S. D. (2003). Retinotopic mapping of homonymous

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Hart, J., & Slotnick, S. D. (2002). Thalamic modulation of cortical rhythms during semantic memory recall in human. Talk at the Toward a Science of Consciousness Conference.

Kraut, M. A., Moo, L.R., Segal, J.B., Slotnick, S. D., & Hart, J. Jr. (2002). Comparison of neural activity during letter and object processing. Talk at the American Society of Neuroradiology Conference.

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Boston College Research Incentive Grant, 6/1/09–5/31/10, \$12,740.

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Cognitive Psychology, Undergraduate Course

Cognitive Neuroscience, Advanced Undergraduate Course

Cognitive Neuroscience of Memory, Advanced Undergraduate Seminar

Methods in Human Brain Mapping, Graduate Course

Controversies in Cognitive Neuroscience, Graduate Seminar

Graduate Programming Lab, Graduate Course

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2016–2018 Cassidy McCarthy
2016–2018 Taylor Russo
2016–2017 Dylan Spets
2016–2016 Vyshnavi Anandan
2016–2016 Rachel Kriegsman
2015–2016

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Journal of Cognitive Neuroscience Scientific Reports
Journal of Experimental Psychology: Trends in Cognitive Sciences
Human Perception and Performance Visual Cognition

Book Reviewer

- 2018 Introduction to Human Neuroimaging (Cambridge University Press)
- 2015 Brain and Behavior: A Cognitive Neuroscience Perspective (David Eagleman & Jonathan Downar; Oxford University Press; lead review on back cover)
- 2013 Cognitive Psychology and its Implications (John Anderson; Worth Publishers)
- 2005 Neurobiology of Attention (Laurent Itti, Geraint Rees, & John Tsotsos; Academic Press)

Grant Reviewer

- 2023 Pennsylvania Department of Health
- 2022 NSF Division of Brain and Cognitive Sciences (Cognitive Neuroscience Program)
- 2022 Pennsylvania Department of Health
- 2021 NSF Division of Brain and Cognitive Sciences (Perception, Action & Cognition)
- 2018 NSF Division of Brain and Cognitive Sciences (Cognitive Neuroscience Program)
- 2015 NSF Division of Brain and Cognitive Sciences (Perception, Action & Cognition)
- 2013 NSF Division of Brain and Cognitive Sciences (Perception, Action & Cognition)
- 2012 NSF Division of Brain and Cognitive Sciences (Perception, Action & Cognition)
- 2010 NSF Major Research Instrumentation (MRI) competition panel, Washington, D. C. (Directorate of Social, Behavioral and Economic Sciences)
- 2010 NSF Division of Brain and Cognitive Sciences (Cognitive Neuroscience Program)
- 2008 NSF Division of Brain and Cognitive Sciences (Cognitive Neuroscience Program)
- 2006 NSF Division of Brain and Cognitive Sciences (Cognitive Neuroscience Program)
- 2005 Canadian Institutes of Health Research
- 2005 Michael Smith Foundation for Health Research
- 2004 NSF Division of Brain and Cognitive Sciences

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2018–2024

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