

Justin B. Knight

Franklin Foundation Neuroimaging Fellow
BioImaging Research Center
Department of Psychology
University of Georgia
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Education

- Ph.D. Cognitive/Experimental Psychology, 2012 (Expected)
University of Georgia
Advisor: Brett Clementz
- M.S. Cognitive/Experimental Psychology 8/08 – 5/10
University of Georgia
Advisors: Richard Marsh and Brett Clementz
- B.S. Psychology, 2008, Magna cum laude 8/04 – 5/08
North Greenville University

Research Interests

My primary research interest is human memory. Specifically, I study prospective memory, source monitoring, and recognition memory. Additionally, I am interested in executive control and its implications in the cognitive processing involved in encoding and retrieval of associative memories. I implement both electrophysiological (EEG) and behavioral techniques in my research in order to elucidate the temporal and spatial dynamics of the neuronal activity that supports these higher order cognitive functions.

Research Experience

- Clinical Cognitive Neuroscience Laboratory 10/08-present
University of Georgia
Brett Clementz, Ph.D.
- ERPs and Oscillatory Dynamics of Prospective and Associative Memory
 - Neural Correlates of Emotion Processing
 - Responsible for designing and programming experiments, writing Matlab scripts and analyzing EEG data, and writing manuscripts
- Human Cognitive Processing Laboratory 8/08-6/10
University of Georgia
Richard L. Marsh, Ph.D.
- Prospective Memory, Recognition Memory, Source Monitoring, Cued Recall

- Responsible for designing experiments, analyzing data, training undergraduate assistants, and writing manuscripts

Furman University

6/07-4/08

Gilles O. Einstein, Ph.D.

- Prospective and Working Memory
- Responsible for recruiting subjects, running participants, and coding data

Publications

- Knight, J. B.**, Marsh, R. L., Brewer, G. A., & Clementz, B. A. (in press). Preparatory distributed cortical synchronization determines execution of some, but not all, future intentions. *Psychophysiology*.
- Knight, J. B.**, Ball, B. H., Brewer, G. A., DeWitt, M. R., & Marsh, R. L. (in press). Testing unsuccessfully: A specification of the underlying mechanisms supporting its influence on retention. *Journal of Memory and Language*.
- Knight, J. B.**, Meeks, J. T., Marsh, R. L., Cook, G. I., Brewer, G. A., & Hicks, J. L. (2011). An observation on the spontaneous noticing of prospective memory event-based cues. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 37, 298-307.
- Knight, J. B.**, Ethridge, L. E., Marsh, R. L., & Clementz, B. A. (2010). Neural correlates of attentional and mnemonic processing in event-based prospective memory. *Frontiers in Human Neuroscience*. 4:5. doi:10.3389/neuro.09.005.2010
- DeWitt, M. R., **Knight, J. B.**, Hicks, J. L., & Ball, B. H. (2012). The effects of prior knowledge on the encoding of episodic contextual details. *Psychonomic Bulletin & Review*, 19, 251-257.
- Brewer, G. A., **Knight, J. B.**, Meeks, J. T., & Marsh, R. L. (2011). On the role of imagery in event-based prospective memory. *Consciousness and Cognition*, 20, 901-907.
- Brewer, G. A., **Knight, J. B.**, Unsworth, N., & Marsh, R. L. (2010). Individual differences in event-based prospective memory: Evidence for multiple processes supporting cue detection. *Memory & Cognition*, 38, 304-311.
- Brewer, G. A., Ball, B. H., **Knight, J. B.**, DeWitt, M. R., & Marsh, R. L. (2011). Divided attention interferes with fulfilling activity-based intentions. *Acta Psychologica*, 138, 100-105.
- Knight, J. B.**, Brewer, G. A., Ball, B. H., DeWitt, M. R., & Marsh, R. L. (Invited Resubmission). The influence of mood on the process and content of encoding future intentions. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- Ball, B. H., **Knight, J. B.**, DeWitt, M. R., Goodie, A. S., Marsh, R. L., & Hicks, J. L. (Invited Resubmission). The Influence of Semantic Context on False Memories. *Journal of Memory and Language*.
- DeWitt, M. R., Hicks, J. L., Ball, B. H., & **Knight, J. B.** (Invited Resubmission). Items previously paired with prospective memory target events can serve as effective reminders. *Journal of Cognitive Psychology*.
- Thom, N., **Knight, J. B.**, Dishman, R., Sabatinelli, D., & Clementz, B. A. (Under Review). Early and late event-related potential correlates of emotional face and scene processing. *International Journal of Psychophysiology*.
- Ball, B. H., **Knight, J. B.**, Marsh, R. L., & Sabatinelli, D. (Under Review). Event-related potentials in recognition memory: Evaluating the dual-process model. *Frontiers in Psychology*.

Teaching Assistant, Introductory Psychology
University of Georgia (Cynthia Suveg, Ph.D.)

Fall 2009

Teaching Assistant, Introductory Psychology
University of Georgia (Adam Goodie, Ph.D.)

Spring 2009

Teaching Assistant, Introductory Psychology
University of Georgia (Michelle Vandellen, Ph.D.)

Fall 2008

Professional Presentations

- Knight, J. B.**, Brewer, G. A., Ball, B. H., DeWitt, M. R., Hicks, J. L. & Marsh, R. L. (November, 2010). *Mood is Encoded as an Influential Component When Planning Delayed Intentions*. Poster presented at the annual meetings of the Psychonomic Society, St. Louis, MO.
- Knight, J. B.**, Clementz, B. A., & Marsh, R. L. (July, 2010). *Oscillatory dynamics provide insight into the role of attention in prospective memory*. Poster presented at the International Conference of Prospective Memory, Vancouver, Canada.
- Knight, J. B.**, Brewer, G. A., Clementz, B. A., & Marsh, R. L. (April, 2010). *On The Role Of Attentional Processes In Event-Based Prospective Memory*. Poster presented at the annual meetings of the Cognitive Neuroscience Society, Montréal, Canada.
- Knight, J. B.**, Ethridge, L. E., Clementz, B. A. & Marsh, R. L. (April, 2009). *Neural Substrates of Prospective Memory*. Poster presented at annual meetings of the GA/SC Neuroscience Conference, Athens, GA.
- Knight, J. B.**, Brewer, G. A., Clark-Foos, A., Meeks, J. T., & Marsh, R. L. (February, 2009). *Lure Interference in Event-Based Prospective Memory*. Poster presented at the annual meetings of the Southeastern Psychological Association, New Orleans, LA.
- Knight, J. B.** (March, 2009). *Prospective Memory and Executive Functioning: Focality of the Intention Matters*. Poster presented at the annual meetings of the Psi Chi Conference, Athens, GA.
- Brewer, G. A., **Knight, J. B.**, Spillers, G. S., Unsworth, N., & Marsh, R. L. (November, 2009). *Individual Differences in Event-Based Prospective Memory*. Poster presented at the annual meetings of the Psychonomic Society, Boston, MA.
- Ball, B. H., DeWitt, M. R., **Knight, J. B.**, & Brewer, G. A. (November, 2011). *Individual Differences in the Delayed-Execution of Prospective Memories*. Poster presented at the annual meetings of the Psychonomic Society, Seattle, WA.
- DeWitt, M. R., Marsh, R. L., **Knight, J. B.**, Ball, B. H., & Hicks, J. L. (November, 2010). *Multidimensional Source Monitoring: Prior Retrieval of One Source Attribute Improves Source Memory for a Second*. Poster presented at the annual meetings of the Psychonomic Society, St. Louis, MO.
- Brewer, G. A., Ball, B. H., **Knight, J. B.**, & DeWitt, M. R. (August, 2011). *Metacognitive Monitoring and Control of Prospective Memory Processes*. Paper presented at the 5th International Conference on Memory, York, UK.
- Hicks, J. L., DeWitt, M. R., Marsh, R. L., **Knight, J. B.**, & Ball, B. H. (August, 2011). *Prior Retrieval of One Source Attribute Can Improve Memory for a Second Attribute*. Paper presented at the 5th International Conference on Memory, York, UK.

- Hicks, J. L., DeWitt, M. R., Marsh, R. L., **Knight, J. B.**, & Ball, B. H. (August, 2011). *Items Previously Paired With Prospective Memory Target Events Can Serve as Effective Reminders*. Paper presented at the 5th International Conference on Memory, York, UK.
- Meeks, J. T., Brewer, G. A., **Knight, J. B.**, Marsh, R. L., & Clark-Foos, A. (November, 2009). *On The Role Of Imagery In Event-Based Prospective Memory*. Poster presented at the annual meetings of the Psychonomic Society, Boston, MA.
- Clark-Foos, A., Meeks, J. T., **Knight, J. B.**, Brewer, G. A., & Marsh, R. L. (February, 2009). *Semantic Sense Affects Source Monitoring*. Poster presented at the annual meetings of the Southeastern Psychological Association, New Orleans, LA.
- Brewer, G. A., Clark-Foos, A., Meeks, J. T., **Knight, J. B.**, & Marsh, R. L. (February, 2009). *The Role of Declarative Knowledge in Encoding Prospective Memories*. Poster presented at the annual meetings of the Southeastern Psychological Association, New Orleans, LA.
- Meeks, J. T., Clark-Foos, A., Brewer, G. A., **Knight, J. B.**, & Marsh, R. L. (February, 2009). *Stimulus Effects on Rejection Processes in a Recognition Memory Test*. Poster presented at the annual meetings of the Southeastern Psychological Association, New Orleans, LA.
- McHenry, D., Kinney, J. A., & **Knight, J. B.** (March, 2009). *Mood and Encoding in Event-based Prospective Memory*. Poster presented at the annual meetings of the Psi Chi Conference, Athens, GA.