



## **CRAIG J. BROZINSKY**

### **Senior Scientist**

**Principia Engineering, Inc.  
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### **Experience**

Dr. Craig Brozinsky is a Human Factors scientist with Principia. His areas of expertise include driver and pedestrian behaviors related to visibility, expectation, distraction, and response time. In the context of warnings and safety information, he analyzes injury databases to determine risks associated with consumer products and activities. He evaluates slips and falls and is a Certified XL Tribometrist.

Prior to working at Principia, Dr. Brozinsky was a Scientist at Talas Engineering, and prior to that a Scientist with Exponent. He received his Ph.D. in Psychology at University of California, Davis, where he specialized in the cognitive neuroscience of memory, and he continued researching memory as a post-doctoral researcher at Helen Wills Neuroscience Institute, University of California, Berkeley. He has experience lecturing on topics including memory, perception, attention, and decision-making.

### **Background and Professional Honors**

- Ph.D. (Psychology), University of California, Davis
- M.A. (Psychology), University of California, Davis
- B.S. (Cognitive Science, minor History), Carnegie Mellon University
  
- Scientist, Talas Engineering, Inc.
- Scientist, Exponent Failure Analysis Associates
- Post-doctoral Fellow, Helen Wills Neuroscience Institute, University of California, Berkeley
- Lecturer, Graduate Student Researcher, and Graduate Student Teaching Assistant, Department of Psychology, University of California, Davis
- Laboratory Technician, Department of Brain and Cognitive Sciences, University of Rochester
- Undergraduate Researcher, Center for Innovation in Learning, Pittsburgh
- Undergraduate Teaching Assistant, Carnegie Mellon University, Pittsburgh

### **Certifications**

- Certified XL Tribometrist

### **Professional Activities & Memberships**

- Member, Human Factors & Ergonomics Society
- Participating Member, ASTM International F13 – Pedestrian/Walkway Safety and Footwear
- Past Reviewer for *Neuropsychologia*
- Past Reviewer for *Journal of Cognitive Neuroscience*
- Past Reviewer for *Neuroimage*

### **Awards**

- Ruth L. Kirschstein National Research Service Award (NRSA) awarded by the National Institutes of Health (NIH/NINDS)
- Scholarship to attend the Summer Institute in Cognitive Neuroscience at Dartmouth College, New Hampshire
- Block Grant, Department of Psychology, University of California, Davis
- Honorable Mention, National Science Foundation Graduate Fellowship
- First Year Graduate Fellowship, Department of Psychology, University of California, Davis
- Howard Hughes Medical Institute Undergraduate Grant

### **Selected Publications and Presentations**

#### ***Research Articles & Publications***

- “Oscillatory EEG Correlates of Episodic Trace Decay,” *Cerebral Cortex*, 2006 (with W. Klimesch, S. Hanslmayr, et al.).
- “Lag-sensitive Repetition Suppression Effects in the Anterior Parahippocampal Gyrus,” *Hippocampus*, 2005 (with A.P. Yonelinas, N.E.A. Kroll, et al.).
- “Working Memory Maintenance Contributes to Long-term Memory Formation: Neural and Behavioral Evidence,” *Journal of Cognitive Neuroscience*, 2005 (with C. Ranganath & M.X. Cohen).
- “Functional Connectivity with the Hippocampus During Successful Memory Formation,” *Hippocampus*, 2005 (with C. Ranganath, M.X. Cohen, et al.).
- “Motion Velocity Thresholds in Deaf Signers: Changes in Lateralization but not in Overall Sensitivity,” *Cognitive Brain Research*, 2004 (with D. Bavelier).
- “Impact of Early Deafness and Early Exposure to Sign Language on the Cerebral Organization for Motion Processing,” *J Neurosci.*, 2001 (with D. Bavelier, A. Tomann, et al.).



***Poster Presentations & Talks***

- “Relational Memory Retrieval at Short Delays Under Interference from Recently Encountered Associations,” Poster session presentation at the 41st annual meeting of the Society for Neuroscience Conference, Washington, D.C., 2011 (with L.T.S. Yee, M. D’Esposito, et al.).
- “Recollection and Familiarity: Medial Temporal and Prefrontal Contributions after Short Retention Intervals,” Talk presented at the Bay Area Memory Meeting, Berkeley, CA, 2011 (with M. D’Esposito).
- “Prefrontal and Medial Temporal Contributions to Recognition over Short Retention Intervals,” Poster session presentation the 17th annual meeting of the Organization for Human Brain Mapping Quebec City, Quebec, 2011 (with M. D’Esposito).
- “Hippocampal and Behavioral Contributions to Recollection at Short Delays,” Poster session presentation the 40th annual meeting of the Society for Neuroscience, San Diego, CA, 2011 (with L.T.S. Yee, N.J. Cohen, et al.).
- “The Effects of Medial Temporal Lobe Damage on Proactive Interference,” Poster session presentation the 16th annual meeting of the Cognitive Neuroscience Society, New York, NY, 2009 (with D. Badre & M. D’Esposito).
- “Does Amnesia Exacerbate the Phonological Similarity Effect?,” Poster session presentation at the 14th annual meeting of the Cognitive Neuroscience Society, New York, NY, 2007 (with C. Ranganath, N.E.A. Kroll, et al.).
- “The Impact of Phonological Rehearsal on Recency Effects,” Poster session presentation at the 13th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA, 2006 (with N.E.A. Kroll, A.P. Yonelinas).
- “Plasticity in the Neural Circuitry of Working Memory: Task and Object Learning Effects,” Poster session presentation at the 33rd annual meeting of the Society for Neuroscience Conference, Washington, D.C., 2005 (with A.S. Heller, M.X. Cohen, et al.).
- “The Functional Neuroanatomy of the Von Restorff Effect,” Poster session presentation at the 17<sup>th</sup> annual meeting of the American Psychological Society, Los Angeles, CA, 2005 (with M. Kishiyama, A.P. Yonelinas, et al.).
- “The Functional Neuroanatomy of the Von Restorff Effect: An Event-Related fMRI Study,” Slide session presentation at the 32nd annual meeting of the Society for Neuroscience Conference, San Diego, CA, 2004 (with M. Kishiyama, A.P. Yonelinas, et al.).
- “Recognition-related Activity in Rhinal Cortex: Evidence for Repetition Suppression Across Different Repetition Intervals,” Talk presented at the first annual Bay Area Memory Meeting, Berkeley, CA, 2004 (with A.P. Yonelinas, N.E.A. Kroll, et al.).



- “Functional Significance of EEG Theta Oscillations for Human Working Memory,” Poster session presentation at the 2003 Autumn School in Cognitive Neuroscience, Oxford, UK, 2003 (with P. Sauseng, W. Klimesch, et al.).
- “Neural Activity Associated with Working Memory and Long-Term Memory Encoding,” Poster session presentation at the 10th annual meeting of the Cognitive Neuroscience Society, New York, NY, 2003 (with M.X. Cohen & C. Ranganath).
- “Differentiating Recollection and Familiarity: A Continuous Recognition Approach,” Poster session presentation the 10th annual meeting of the Cognitive Neuroscience Society, New York, NY, 2003 (with N.E.A. Kroll & A.P. Yonelinas).
- “Does Early Deafness Alter Motion Processing?,” Poster session presentation at the 31st annual meeting of the Society for Neuroscience Conference, San Diego, CA, 2001 (with D. Bavelier).
- “Processing of Motion Velocity in Deaf Signers,” Poster session presentation at the eighth annual meeting of the Cognitive Neuroscience Society, New York, NY, 2001 (with D. Bavelier, A. Tomann, et al.).

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