CRAIG J. BROZINSKY

Specialized Professional Competence

Human factors analysis of warnings and instructions. Investigation of role of perception, attention, cognitive load, and decision making in accidents. Analysis of injury databases to determine risks associated with products and activities. Driver and pedestrian behaviors related to visibility, expectation, conspicuity, distraction, and response time.

Background and Professional Honors

B.S. (Cognitive Science), Carnegie Mellon University
M.S. (Psychology), University of California, Davis
Ph.D. (Psychology), University of California, Davis

Scientist,
Talas Engineering, Inc.
Human Factors Consultant (freelance)
Scientist,
Exponent Failure Analysis Associates
Post-doctoral Fellow,
Helen Wills Neuroscience Institute, University of California, Berkeley
Lecturer,
Department of Psychology, University of California, Davis
Graduate Student Researcher,
Department of Psychology, University of California, Davis
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
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 17th 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 32st 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.).