

Kurt Braunlich, PhD

Address University College London
Division of Psychology and Language Sciences
26 Bedford Way
London, UK. WC1E 6BT

Email k.braunlich@ucl.ac.uk
Web kbraunlich.github.io
Skype kurt.braunlich1
Phone (US) +1 (360) 535-3495
Phone (UK) +44 (0) 77 0998 8317

Education

- 2015 **Colorado State University**
Ph.D., Cognitive Psychology.
Advisor: Dr. Carol Seger
Dissertation: Categorical Evidence, Confidence, and Urgency during the Integration of Multi-Feature Information
- 2010 **Western Washington University**
M.S., Experimental Psychology.
Advisor: Dr. Kristi Lemm
Thesis: Thought in the Absence of Attention
- 2004 **Catholic University of America**
B.A., Cum laude with honors. Experimental Psychology.
Advisor: Dr. Carol Glass

Publications

- 2017 **Braunlich, K.**, Liu, Z. & Seger, C. A. (2017). Occipitotemporal category representations are sensitive to abstract category boundaries defined by generalization demands. *The Journal of Neuroscience*, in press.
- 2016 **Braunlich, K.** & Seger, C. A. (2016). Categorical evidence, confidence, and urgency during probabilistic categorization. *NeuroImage*, 107, 146–162.
- 2015 Seger, C. A., **Braunlich, K.**, Wehe, H., & Liu, Z. (2015). Generalization in category learning: The roles of representational and decisional uncertainty. *The Journal of Neuroscience*, 35(23), 8802–8812.
- Braunlich, K.**, Gomez-Lavin, J., & Seger, C. A. (2015). Frontoparietal networks involved in categorization and item working memory. *NeuroImage*, 107, 146–162.
- Liu, Z., **Braunlich, K.**, Wehe, H. S., & Seger, C. A. (2015). Neural networks supporting switching, hypothesis testing, and rule application. *Neuropsychologia*, 77, 19–34.
- Seger, C. A., & **Braunlich, K.** (2015). Category learning. In A. W. Toga (Ed.), *Human Brain Mapping: An Encyclopedic Reference* (Vol. 3, 487–492). Elsevier Inc.
- 2013 **Braunlich, K.**, & Seger, C. A. (2013). The basal ganglia. *Wiley Interdisciplinary Reviews: Cognitive Science*, 4(2), 135–148.

Presentations

- 2017 **Braunlich, K.**, Kluger, B. M., Thaut, M. H., & Seger, C. A. (2017). Rhythmic Auditory Cues Shape Neural Network Plasticity Underlying Motor Control in Parkinson's Disease. Poster Presented at the International Basal Ganglia Society Annual Meeting.

- 2015 **Braunlich, K.**, Thaut, M. H., & Seger, C. A. (2015). The Beneficial Effects of Rhythmic Auditory Stimuli for the Production of Voluntary Motor Movements in Parkinsons Disease. Poster presented at the Society for Neuroscience Annual Meeting.
- Braunlich, K.** & Seger, C. A. (2015). The Accumulation of Probabilistic Categorical Information. Poster presented at the Organization of Human Brain Mapping Annual Meeting.
- Braunlich, K.** & Seger, C. A. (2015). The Accumulation of Probabilistic Categorical Information. Poster presented at the Cognitive Neuroscience Society Annual Meeting.
- Seger, C. A. & **Braunlich, K.** (2015). Decision Making and the Strategic Control of Generalization. Poster presented at the Cognitive Neuroscience Society Annual Meeting.
- Braunlich, K.** & Seger, C. A. (2015). The Accumulation of Probabilistic Categorical Information. Poster presented at the Front-Range Neuroscience Group Annual Meeting.
- 2013 Dimond, A. J., **Braunlich, K.**, & Seger, C. A. (2013). fMRI and Behavioral Investigation of Categorical Evidence Integration. Poster presented at the Association for Psychological Sciences Annual Meeting.
- 2012 **Braunlich, K.**, Fan, G., & Seger, C. A. (2012). The Accumulation of Information for Categorization. Poster presented at the Society for Neuroscience Annual Meeting.
- Braunlich, K.**, Gomez-Lavin, J., & Seger, C. A. (2012) Shared and Distinct Frontal, Parietal and Striatal Bases for Item and Category Working Memory. Poster presented at the Organization for Human Brain Mapping Annual Meeting.
- Gomez-Lavin, J., **Braunlich, K.**, Seger, C. A. & Horwitz, Z. (2012). Frontal-Parietal Network Differences for Item and Category Working Memory. Poster presented at the CURC Annual Conference at CSU.
- Gomez-Lavin, J., **Braunlich, K.** & Seger, C. A. (2012). Frontal-Parietal Network Differences for Item and Category Working Memory. Poster presented at the Cognitive Neuroscience Society Annual Meeting.
- Gomez-Lavin, J., **Braunlich, K.** & Seger, C. A. (2012). Frontal-Parietal Network Differences for Item and Category Working Memory. Poster presented at the Southern Society of Philosophy and Psychology Annual Meeting.
- 2011 Spiering, B. J., **Braunlich, K.** & Seger, C. A. (2011). An fMRI Study of the Basal Ganglia's Role in Multiple Category-Learning Systems. Poster presented at the Cognitive Neuroscience Society Annual Meeting.
- Spiering, B. J., **Braunlich, K.**, & Seger, C. A. (2011). Switching Between Category Learning Systems: An fMRI Study. Poster presented at the Executive Function and Emotion Conference at the University of Colorado, Boulder.
- Spiering, B. J. **Braunlich, K.**, & Seger, C. A. (2011). Switching Between Category-Learning Systems: An fMRI Study. Molecular, Cellular and Integrative Neuroscience Conference at Colorado State University.

Invited Talks

- 2010 **Braunlich, K.** & Lemm, K. M. (2010). Thought in the Absence of Attention. Talk presented at the Northwest Cognition and Memory Annual Meeting.

Awards

- 2015 **David P. McCabe Award for Excellence in Research**
Colorado State University.
- 2015 **Travel Award**
Colorado State University.
To attend the Annual Meeting of the Cognitive Neuroscience Society
- 2009 **Graduate Student Research Grant**
Western Washington University.
\$600 to support my research concerning the development of preference
in the absence of attention
- 2004 **Development Coach of the Year**
United States Olympic Committee.
For my work with the US Whitewater Slalom Team

Research

- 2016 - **University College London**
Postdoctoral Research Associate.
Advisor: Dr. Bradley Love
Project: Computational Modeling of Category Learning
- 2015 - 16 **Georgia Institute of Technology**
Postdoctoral Fellow.
Advisor: Dr. Mark Wheeler
Project: Neurobiological Mechanisms Underlying Flexible Modulation of Decision Strategy
- 2010 - 15 **Colorado State University**
Graduate Research Assistant.
Advisor: Dr. Carol Seger
- 2009 - 10 **Western Washington University**
Graduate Research Assistant.
Advisor: Dr. Kristi Lemm
- 2006 **Capital Clinical Research Associates**
Research Assistant.
Advisor: Dr. Norman Rosenthal
- 2004 **National Institutes of Mental Health:** Clinical Brain Disorders Branch
Research Assistant.
Advisor: Dr. Terry Goldberg

Teaching Experience

Colorado State University

- Cognitive Neuroscience Laboratory
- Cognitive Psychology Laboratory
- Biophysical Psychology Laboratory
- Introduction to fMRI Analysis

Western Washington University

- Research Methods Laboratory

Teaching Assistantships

Colorado State University

- Introduction to Psychology
- Research Methods

Western Washington University

- Introduction to Psychology
- Experimental Approaches in Research

Invited Lectures

University College London

- Knowledge, Learning and Inference

Peer Review

Memory and Cognition
Neuroimage
Human Brain Mapping

Professional Organizations

Society for Neuroscience
Cognitive Neuroscience Society

Software Fluency

Python, MATLAB, R