

# Kurt Braunlich, Ph.D.

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## Education

### **Colorado State University**

Ph.D., Cognitive Psychology, 2015.

Advisor: Dr. Carol Seger

Dissertation: Categorical Evidence, Confidence, and Urgency during the Integration of Multi-Feature Information

### **Western Washington University**

M.S., Experimental Psychology, 2010.

Advisor: Dr. Kristi Lemm

Thesis: Thought in the Absence of Attention

### **Catholic University of America**

B.A., Cum laude with honors. Experimental Psychology, 2004.

Advisor: Dr. Carol Glass

## Publications

**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.

**Braunlich, K.** & Seger, C. A. (2016). Categorical evidence, confidence, and urgency during probabilistic categorization. *NeuroImage*, 107, 146–162.

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.

**Braunlich, K.**, & Seger, C. A. (2013). The basal ganglia. *Wiley Interdisciplinary Reviews: Cognitive Science*, 4(2), 135–148.

- Presentations **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. Presented at the International Basal Ganglia Society Annual Meeting.
- Braunlich, K.**, Thaut, M., & Seger, C. A. (2015). The Beneficial Effects of Rhythmic Auditory Stimuli for the Production of Voluntary Motor Movements in Parkinsons Disease. 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.
- Dimond, A. J., **Braunlich, K.**, & Seger, C. A. (2013). fMRI and Behavioral Investigation of Categorical Evidence Integration. Poster session presented at the Association for Psychological Sciences Annual Meeting.
- 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

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.

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

## Awards

**David P. McCabe Award for Excellence in Research**  
Colorado State University, 2015.

**Travel Award**  
Colorado State University, 2015.  
To attend the Annual Meeting of the Cognitive Neuroscience Society

**Graduate Student Research Grant**  
Western Washington University, 2009.  
\$600 to support my research concerning the development of preference in the absence of attention

**Development Coach of the Year**  
United States Olympic Committee, 2004.  
For my work with the US Junior National Whitewater Slalom Team

## Research

**University College London**  
Postdoctoral Research Associate, 2016 - present.  
Advisor: Dr. Bradley Love  
Project: Computational Modeling of Category Learning

**Georgia Institute of Technology**  
Postdoctoral Fellow, 2015 - 2016.  
Advisor: Dr. Mark Wheeler  
Project: Neurobiological Mechanisms Underlying Flexible Modulation of Decision Strategy

**Capital Clinical Research Associates**  
Research Assistant, 2006.  
Advisor: Dr. Norman Rosenthal

**National Institutes of Mental Health:** Clinical Brain Disorders Branch  
Research Assistant, 2004.  
Advisor: Dr. Terry Goldberg

Teaching Experience	<b>Colorado State University</b>
	- Cognitive Neuroscience Laboratory - Cognitive Psychology Laboratory - Biophysical Psychology Laboratory - Introduction to fMRI Analysis
	<b>Western Washington University</b>
	- Research Methods Laboratory
Teaching Assistantships	<b>Colorado State University</b>
	- Introduction to Psychology - Research Methods
	<b>Western Washington University</b>
	- Introduction to Psychology - Experimental Approaches in Research
Lecturing	<b>University College London</b>
	- Knowledge, Learning and Inference
Peer Review	<b>Memory and Cognition</b>
	<b>Neuroimage</b>
	<b>Human Brain Mapping</b>
Professional Organizations	<b>Society for Neuroscience</b>
	<b>Cognitive Neuroscience Society</b>
Software Fluency	<b>Python, MATLAB, R</b>