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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. & 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.

Manuscripts

Under Review

Braunlich, K., Liu, Z., & Seger, C. A. (2017). Decision-making, perceptual generalization and strategic control of the categorization boundary.

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

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

Lecturing

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