

Dr. Sarah Laszlo, PhD

Department of Psychology
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Employment History

State University of New York, Binghamton: 2011-Present
Assistant Professor of Psychology
Assistant Professor of Linguistics
Director, Brain and Machine Laboratory

The Plaut Lab, Carnegie Mellon University (Dr. David C. Plaut, Director): 2009-2011
Post-Doctoral Fellow

The Cognition and Brain Laboratory, University of Illinois, Urbana-Champaign (Dr. Kara D. Federmeier, Director): 2004-2009
Graduate Student, Fellow

The Productive Aging Laboratory, University of Illinois, Urbana-Champaign (Dr. Denise C. Park, Director): 2005
Research Assistant

The Banaji Laboratory for Social Cognition, Harvard University (Dr. Mahzarin Banaji, Director): 2004
Research Assistant

The Wagner Laboratory for Learning and Memory, MIT (Dr. Anthony D. Wagner, Director): 2001-2003
Undergraduate Research Assistant

Education

University of Illinois at Urbana-Champaign, Urbana, IL
PhD, Psychology
May, 2009

Dissertation Title: Filters, Neighbors, and Triangles: A Behaviorally and Electrophysiologically Informed Perspective on Visual Word Recognition

University of Illinois at Urbana-Champaign, Urbana, IL

MA, Psychology

August, 2006

Thesis Title: Acronyms Reveal the Contribution of Familiarity to Single Word Reading

Massachusetts Institute of Technology, Cambridge, MA

B.S., Brain and Cognitive Science

June, 2004

Grants

NIH/NICHD 1F32HD062043: Physiologically Constrained Computational Modeling of Visual Word Recognition

Principal Investigator: Sarah Laszlo

Sponsor: David C. Plaut

July 2010-September 2011

Training Grants and Fellowships

NIMH T32 MH019983, CMU: Combined Computational and Empirical approaches to the study of Cognitive Neuroscience

Director: Lynne M. Reder

2009-2010

NIMH T32 MHI9554, UIUC: Cognitive Psychophysiology

Director: Gregory A. Miller

2005-2007

University of Illinois, Urbana-Champaign University Fellowship

2004-2005

Awards

Sarah Mangelsdorf Award for Outstanding Female Graduate Student

May, 2009

Finalist: Psychology Department Graduate Instructor Award

2008-2009 competition

The incomplete list of teachers ranked as excellent by their students, with distinction for an "Outstanding" rating

For Fall 2008: Senior Honors Seminar in Psychology

Hans Lukas Teuber Award for Excellence in Academics in Brain and Cognitive Sciences by a senior at MIT

May 2004

MIT Brain and Cognitive Sciences Award for excellent academic record
May 2003

Professional and Academic Societies

Cognitive Science Society
2010- Present

Women in Cognitive Science
2008-Present

The Society for Psychophysiological Research
2006-Present

The Cognitive Neuroscience Society
2006-Present

Phi Beta Kappa, Xi Chapter of Massachusetts (MIT)
Inducted June, 2004

Sigma Xi, Associate Member
Inducted May, 2004

Publications

Laszlo, S., & Plaut, D.C. (2012). A neurally plausible parallel distributed processing model of event-related potential word reading data. *Brain and Language*, 120, 271-281.

Laszlo, S., Stites, M., & Federmeier, K.D. (2012). Won't Get Fooled Again: An Event-Related Potential Study of Task and Repetition Effects on the Semantic Processing of Items without Semantics. *Language and Cognitive Processes*, 27, 257-274.

Laszlo, S., & Federmeier, K.D. (2011). The N400 as a snapshot of interactive processing: evidence from regression analyses of orthographic neighbor and lexical associate effects. *Psychophysiology*, 48, 176-186.

Federmeier, K.D. & **Laszlo, S.** (2009). Time for meaning: Electrophysiology provides insights into the dynamics of representation and processing in semantic memory. *Psychology of Learning and Memory* (B. Ross, Ed.), Vol. 51, (pp 1-44). Burlington: Academic Press.

Laszlo, S., & Federmeier, K.D. (2009). A Beautiful Day in the Neighborhood: An Event-Related Potential study of lexical relationships in sentence context. *Journal of Memory and Language*, 61, 326-338.

Laszlo, S. & Federmeier, K.D. (2008). Minding the PS, queues, and PXQs: Uniformity of semantic processing across multiple stimulus types. *Psychophysiology*, 45, 458-466.

Laszlo, S. & Federmeier, K.D. (2007). The Acronym Superiority Effect. *Psychonomic Bulletin and Review*, 14(6), 1158-1163.

Laszlo, S. & Federmeier, K.D. (2007). Better the DVL you know: Acronyms reveal the contribution of familiarity to single word reading. *Psychological Science*, 18(2), 122-127.

Conference Papers

Laszlo, S., & Plaut, D.C. (2011). Simulating Event-Related Potential Reading Data in a Neurally Plausible Parallel Distributed Processing Model. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, Mahwah, NJ: Lawrence Erlbaum Associates.

Posters and Conference Presentations

Laszlo, S. (2011). What goes up, must come down: Multiple regression analysis of single-item ERPs reveals yoked oscillation of orthographic and semantic processing. *Psychophysiology*, 48, Supplement 1, S43.

MacInnes, J., **Laszlo, S.**, & Armstrong, B. (2010). Computational Evidence that Word Co-occurrence Models Predict Turing Test Humanness Judgments. 20th conference of the Canadian Society of Brain, Behavior, and Cognitive Science.

Laszlo, S., Stites, M., & Federmeier, K.D. (2010). Task and Repetition Effects on the Semantic Processing of Items Without Semantics. *Psychophysiology*, 47, Supplement 1, S28.

Laszlo, S., Armstrong, B. C., MacInnes, W. J., Plaut, D. C., & Federmeier, K. D. (2010). When dog is more wolf than bone: Computational and electrophysiological evidence for featural organization of semantic memory. *Proceedings of the 31st Annual Conference of the Cognitive Science Society*. Mahwah, NJ: Lawrence Erlbaum Associates.

Laszlo, S., Anaya, P., & Federmeier, K.D. (2009). Interacting effects of lexical variables on language-sensitive ERPs at the single-item level. *Psychophysiology*, 46, Supplement 1, S109.

Gratton, C.G., **Laszlo, S.**, & Federmeier, K.D. (2008). In whole or in part? An ERP analysis of Global / Local Processing Asymmetries with Naturalistic Objects. *Psychophysiology*, 45, Supplement 1, S70.

Laszlo, S. & Federmeier, K.D. (2008). All for one and one for all: Homogeneity of semantic access for all written inputs. *Journal of Cognitive Neuroscience*, Supplement 1, 252.

Federmeier, K.D. & **Laszlo, S.** (2007). Deriving Meaning from ERPs... And Other Acronyms. *Psychophysiology*, 44, Supplement 1, S6.

Laszlo, S. & Federmeier, K.D. (2007). How I learned to stop worrying and love the VCR: N400 processing of illegal strings in sentence context. *Psychophysiology*, 44, Supplement 1, S62.

Laszlo, S. and Federmeier, K. D. (2006). Acronyms reveal the effects of familiarity and regularity on the N400 ERP component. *Psychophysiology*, 43, Supplement 1, S57.

Goh, J.O., Jenkins, L., Hebrank, A., **Laszlo, S.**, & Park, D.C. (2006). Neural correlates of categorical and coordinate spatial processing. *Journal of Neuroscience*, 26, Supplement 1.

Park, D.C., Hebrank, A., Jenkins, L., **Laszlo, S.**, Khanna, M., & Polk, T. (2006). Neural activation patterns in frontal, parietal, and ventral visual cortices predict cognitive behavior in old and young. *Journal of Neuroscience*, 26, Supplement 1.

Laszlo, S. & Federmeier, K. D. (2006). Breaking the 'rules': Acronyms reveal mechanisms of reading. *Journal of Cognitive Neuroscience*, Supplement 1, 219.

Jenkins, L., Hebrank, A., **Laszlo, S.**, Polk, T., & Park, D.C. (2006). Age differences in neural activation patterns in frontal, parietal, and ventral visual cortex. *Journal of Cognitive Neuroscience*, Supplement 1, 206.

Invited Addresses

Laszlo, S. New Language of the Machine: How understanding the brain can help us build better computational models of reading.

Bard College, Mind, Brain, and Behavior Program
March, 2012

Laszlo, S. Words on the Brain: Challenging Classical Theories of Visual Word Recognition with Event-Related Potentials and Neurally Constrained Computational Modeling

Lehigh University Neurocognition Series

February, 2012

Laszlo, S. & Federmeier, K.D. The unstoppable juggernaut: Electrophysiology reveals the obligatory nature of semantic access

Society of Psychophysiological Research Annual Meeting

October, 2009

Laszlo, S. & Federmeier, K.D. A Beautiful Day in the Neighborhood: An ERP study of lexical relationships and sentential constraint

Society for Psychophysiological Research Annual Meeting

October, 2008

Laszlo, S. The unstoppable juggernaut: Electrophysiology reveals the obligatory nature of semantic access

Beckman Institute Graduate Student Seminar

February 2008

Laszlo, S. Neural predictors of cognitive function in aging

Beartooth Neurology Conference on Functional Magnetic Resonance Imaging

December 2006

Teaching Experience

Spring, 2012 Psychology 352, "Perception Lab"

Fall, 2011 Psychology 473L, "Models of Cognitive Function"

2007-2009 Psychology 498, "Senior Honors Seminar"

2007-2009 Psychology 398, "Junior Honors Seminar"

Fall, 2006 Psychology 593, "Methods in Cognitive Neuroscience"

Mentoring, Undergraduate Students

Supervision of Undergraduate Honors Theses

2009 Liz Babcock, "Mothers' Theories of Children's Ability: The Emotional Consequences for Children"

Tritsch Award Winner

Kim Farbota, "Stress and Methamphetamine: How Glucocorticoid Antagonism Affects Sensitization"

John Gaspar, "Effects of action video game playing on driving performance under single and dual task conditions"

Jessica Shaw, "Examining the Effects of Genistein on Sexual Dimorphisms"

2008 Caterina Gratton, "In whole or in part? An ERP analysis of global/local processing asymmetries with naturalistic objects"

Azim Kahn, "Adult Neurogenesis and Memory"

Ji Hae Lee, "Criterion Variability in Recognition Memory Judgments"

Jenna Meints, "The psychology of individual tax evasion: An exploration of personality and social cognition"

Steffen Olsen, "Psychological Needs and Emotions"

J. Oliver Siy, "Just my Luck! The Effects of Superstition on Decision Making for Bicultural Individuals"

Service

Poster Award Committee, CMU Campus-Wide Sigma Xi "Meeting of the Minds" Research Fair
2009-2010, 2010-2011 academic year cohorts

Poster Award Committee, CMU Psychology Department Undergraduate Research Fair
2009, 2010, 2011 Competitions

Society for Psychological Research Tursky Award Committee
2010, 2011, 2012 Competitions

Beckman Institute for Advanced Science and Technology 20th Anniversary Planning Committee
Student Member, 2008-2009

Ad hoc reviewer: Psychophysiology, Brain and Language, Human Brain Mapping, European Journal of Cognitive Psychology, Cerebral Cortex, Cognitive Science, Psychonomic Bulletin and Review, Applied Psycholinguistics, Experimental Brain Research