

## KAILYN A. L. BRADLEY

University of Houston  
Department of Psychology  
126 Heyne Building  
Houston, TX 77204-5022

Office: (713)743-8828  
Home: (832) 689-4114  
kailyn.bradley@gmail.com

### EDUCATION

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- Ph.D. Developmental Psychology (Developmental Cognitive Neuroscience) exp. 2015  
**University of Houston**, Houston, TX
- M.A. Psychology 2012  
**University of Houston**, Houston, TX  
THESIS: *Neural correlates of imagery-based foreign word learning*  
Advisor: Arturo, E. Hernandez, Ph.D.
- M.A. Interdisciplinary Studies 2009  
**University of Texas at Dallas**, Richardson, TX  
CAPSTONE PAPER: *Cognitive deficits in children with ADHD: A review of the biological, psychosocial, and environmental factors that contribute to impairment*  
Advisor: George Fair, Ph.D.
- B.S. Biology and Criminology, *Cum Laude* 2007  
**University of Texas at Dallas**, Richardson, TX

### RESEARCH INTERESTS

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- Structural and functional neuroimaging methods
- Language processing in typical development and in neurodevelopmental disorders
- Executive control of language
- Neural mechanisms of second language acquisition

### RESEARCH EXPERIENCE

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- Graduate Research Assistant** 2012-present  
The University of Texas-Houston, Children's Learning Institute  
Brain Research Analysis in Neurodevelopment Lab  
Supervisor: Jenifer Juranek, Ph.D.
- Training in magnetic resonance (MR) image acquisition
  - Training in structural neuroimaging analyses using Freesurfer, FSL, and Trackvis
  - Project 1: Currently using diffusion tensor imaging (DTI) to investigate the integrity of callosal white matter tracks involved in verbal auditory processing in spina bifida.
- Graduate Student** 2010-present

The University of Houston  
 Laboratory for the Neural Bases of Bilingualism  
 Supervisor: Arturo E. Hernandez, Ph.D.

- Training in fMRI image acquisition and analysis using SPM
- Project 1: Investigated differences in brain activation of the cognitive control network in bilinguals and monolinguals after foreign word learning.
- Project 2: Investigated the influence of training method and individual differences on the neural mechanisms involved in novel word learning.
- Project 3: Currently examining how monolinguals and bilinguals differentially engage the cognitive control network to resolve language competition tasks.

### Research Assistant

2009-2010

The University of Texas at Dallas  
 Center for BrainHealth  
 Supervisor: Fan-pei Gloria Yang, Ph.D.

- Training in EEG data collection and analysis
- Training in fMRI data analysis
- Training in DTI data analysis using DTI Studio
- Project 1: Investigated the role of N400 and P600 in metaphorical language comprehension using EEG.
- Project 2: Investigated the neural correlates of figurative language (puns) comprehension using fMRI.
- Project 3: Investigated how the integrity of white matter tracks involved in language processing is impacted by mild, diffuse traumatic brain injury using DTI.

### PUBLICATIONS

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**Bradley, K. A. L.**, King, K. E., & Hernandez, A. E. (2013). Language experience differentiates prefrontal and subcortical activation of the cognitive control network in novel word learning. *NeuroImage*, *67*, 101-110.

Hernandez, A. E., & **Bradley, K.A.L.** (2013). How the ordinary become extraordinary [Review of the book *Babel no more: The search for the world's most extraordinary language learners*, by Michael Erard]. *PsycCRITIQUES*, *58*(18). doi: 10.1037/a0032100

Yang, F. G., **Bradley, K.**, Huq, M., Wu, D., & Krawczyk, D. C. (2013). Contextual effects on conceptual blending in metaphors: An event-related potential study. *Journal of Neurolinguistics*, *26*(2), 312-326.

Yang, F. G., Khodaparast, N., **Bradley, K.**, Fang, Min-Chieh, Bernstein, A., & Krawczyk, D. C. (2013). The influence of semantic property and grammatical class on semantic selection. *Brain and Language*, *124*(2), 194-203.

### PRESENTATIONS

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**Bradley, K. A. L.**, Bartolotti, J., Chabal, S, Marian, V., & Hernandez, A. E. (April, 2013).

*Cortical control of native language phonological competition in monolinguals and bilinguals.* Poster session presented at the 20<sup>th</sup> annual Cognitive Neuroscience Society meeting, San Francisco, CA.

Hernandez, A. E. & **Bradley, K. A. L.** (April, 2013). *Neural correlates of imagery-based foreign word learning.* Poster session presented at the 20<sup>th</sup> annual Cognitive Neuroscience Society meeting, San Francisco, CA.

**Bradley, K. A. L.** & Hernandez, A. E. (October, 2012). *Neural correlates of imagery based second language word learning.* Poster session presented at Neuroscience 2012, the Society for Neuroscience's annual meeting, New Orleans, LA.

Chang, Y., Yang, F., **Bradley, K.**, Dorner, B., Simpson, C., & Krawczyk, D. (2012). *White matter disruption in language network after mild traumatic brain injury.* Poster session presented at the Organization for Human Brain Mapping's (OHBM) 2012 conference, Beijing, China.

**Bradley, K. A. L.**, King, K. E., & Hernandez, A. E. (November, 2011). *Neural substrates underlying novel word learning in adult monolinguals and early Spanish-English bilinguals.* Poster session presented at the 3rd annual Neurobiology of Language conference, Annapolis, MD.

**Bradley, K. A. L.**, King, K. E., & Hernandez, A. E. (April, 2011). *Neural substrates underlying new word learning in adult monolinguals and early Spanish-English bilinguals.* Poster session presented at the 18<sup>th</sup> annual Cognitive Neuroscience Society meeting, San Francisco, CA.

**Lipowski, K.**, King, K. E., Woods, E. A., & Hernandez, A. E. (October, 2010). *Neural correlates of early word learning in adult monolinguals.* Poster session presented at the 20<sup>th</sup> annual ARMADILLO meeting, College Station, TX.

Yang, F., Bernstein, A., Sharma, S., Khodaparst, N., **Lipowski, K.**, & Krawczyk, D. (October, 2010). *Distinct neural mechanisms for puns and non-meaningful sentences.* Poster session presented at the 2<sup>nd</sup> annual Neurobiology of Language conference, San Diego, CA.

Yang, F. G., **Lipowski, K.**, Huq, M., Brier, M. R., Maguire, M. J., & Krawczyk, D. C. (October, 2009). *Contextual effects on conceptual blending in metaphors: An event-related potential study.* Poster session presented at the 1<sup>st</sup> annual Neurobiology of Language conference, Chicago, IL.

Yang, F. G., Khodaparst, N., Bernstein, A., Andrew, C., **Lipowski, K.**, Huq, M., & Krawczyk, D. C. (October, 2009). *The influence of semantic property and grammatical class on semantic competition.* Paper session presented on behalf of Dr. Yang at Neuroscience 2009, the Society for Neuroscience's annual meeting, Chicago, IL.

fMRI DATA ANALYSIS WORKSHOP

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SPM8 for Basic and Clinical Investigators, Boston, MA 2011  
Instructors: Tom Zeffiro, Ph.D., Robert Savoy, Ph.D., and Susan Whitfield-Gabrieli, Ph.D.

PROFESSIONAL AFFILIATIONS

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Society for Neuroscience  
Cognitive Neuroscience Society  
Society for the Neurobiology of Language

TEACHING EXPERIENCE

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Teaching Assistant, The University of Houston, Houston, TX 2010-2012

- PSYC 1300, *Honors* Introduction to Psychology
- PSYC 2350, Child Development
- PSYC 3550, Introduction to Cognitive Psychology

HONORS AND AWARDS

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The University of Texas at Dallas, *Cum Laude* Graduation Honors 2007