

KAILYN A. L. BRADLEY

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Department of Psychology
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EDUCATION

- Ph.D. Candidate, Developmental Cognitive Neuroscience expected 2014
University of Houston, Houston, TX
- M.A. Psychology 2012
University of Houston, Houston, TX
- M.A. Interdisciplinary Studies 2009
University of Texas at Dallas, Richardson, TX
- B.S. Biology and Criminology, *Cum Laude* 2007
University of Texas at Dallas, Richardson, TX

RESEARCH INTERESTS

- Language learning and executive control in typical and atypical development
- Structural and functional neuroimaging methods

RESEARCH EXPERIENCE

- Graduate Research Assistant** 2012-present
The University of Texas-Houston, Children's Learning Institute
Brain Research Analysis in Neurodevelopment Lab
Supervisors: Jenifer Juranek, Ph.D. and Jack M. Fletcher, Ph.D.
- Training in structural neuroimaging analysis using Freesurfer and DTI analysis using FSL and Trackvis.
 - Project 1: Investigates differences in microstructure between anterior and posterior sections of the corpus callosum in spina bifida myelomeningocele.
 - **Dissertation:** Uses DTI and probabilistic tractography to investigate how early disruption of corpus callosum development due to spina bifida myelomeningocele impacts verbal auditory interhemispheric transfer.

- Graduate Student** 2010-present
The University of Houston
Laboratory for the Neural Bases of Bilingualism
Advisor: Arturo E. Hernandez, Ph.D.
- Training in fMRI analysis using SPM.

- Project 1: Investigated neural activation of the cognitive control network after novel vocabulary learning in monolinguals and bilinguals.
- **Thesis:** Investigated the influence of training method and individual differences on novel word learning.
- Project 3: In collaboration with Viorica Marian, Ph.D., at Northwestern University, investigated how monolinguals and bilinguals differentially engaged the cognitive control network to resolve phonological onset competition.
- Project 4: Investigated developmental differences in neural recruitment in L1 and L2 during covert word reading between adult and child Spanish-English bilinguals.

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, fMRI data analysis using SPM, and DTI analysis using DTIStudio.
- 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 mild, diffuse traumatic brain injury impacted the integrity of white matter pathways involved in language processing using DTI.

PUBLICATIONS

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- Hernandez, A. E., Woods, E. A., & **Bradley, K. A.** (Invited revision under review). Neural correlates of single word reading in bilingual children and adults.
- Marian, V., Chabal, S., Bartolotti, J., **Bradley, K. A. L.**, & Hernandez, A. E. (Submitted). Differential recruitment of executive control regions during phonological competition in monolinguals and bilinguals.
- 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).
- 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.

MANUSCRIPTS IN PREPARATION

Bradley, K. A. L., Juranek, J., & Fletcher, J. M. (in preparation). Microstructural differences between the anterior and posterior corpus callosum in children with spina bifida myelomeningocele.

Bradley, K. A. L. & Hernandez, A. E. (in preparation). The influence of individual variability and imagery-based training on foreign vocabulary learning: An fMRI investigation.

PRESENTATIONS

Bradley, K. A. L., Juranek, J., & Fletcher, J. M. (Accepted for June, 2014). *Deterministic tractography of the corpus callosum in children with spina bifida myelomeningocele*. Poster session to be presented at the annual Organization for Human Brain Mapping meeting (OHBM), Hamburg, Germany.

Bradley, K. A. L. & Hernandez, A. E. (November, 2013). *The influence of imagery-based training and individual variability on foreign vocabulary learning*. Poster session presented at the annual Society for the Neurobiology of Language conference, San Diego, CA.

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 20th 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 20th 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. (June, 2012). *White matter disruption in language network after mild traumatic brain injury*. Poster session presented at the annual Organization for Human Brain Mapping (OHBM) meeting, 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 18th 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 20th 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 2nd 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 1st 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.

DATA ANALYSIS WORKSHOPS

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

Organization for Human Brain Mapping (OHBM)	2013-present
Cognitive Neuroscience Society (CNS)	2011-present
Society for the Neurobiology of Language (SNL)	2009-present
Society for Neuroscience (SfN)	2009-present

TEACHING EXPERIENCE

Teaching Assistant, The University of Houston, Houston, TX	
Hybrid: half online/half discussion section	
• PSYC 1300, <i>Honors</i> Introduction to Psychology	2012
Online	
• PSYC 3550, Introduction to Cognitive Psychology	2011
Lecture	
• PSYC 2350, Child Development	2011
• PSYC 1300, Introduction to Psychology	2010

HONORS, AWARDS, & FELLOWSHIPS

Graduate Tuition Fellowship	2010-present
The University of Texas at Dallas, <i>Cum Laude</i> Graduation Honors	2007