Benjamin Zinszer

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Education

2014 - pres.	Postdoctoral Associate, Raizada Lab
	Department of Brian and Cognitive Sciences, University of Rochester
2014	Ph.D., Psychology, Pennsylvania State University
2014	M.A.S., Applied Statistics, Pennsylvania State University
2012	M.S., Psychology, Pennsylvania State University (University Park, Pennsylvania)
2008	B.A., Psychology, Wheaton College (Wheaton, Illinois)

Fellowships & Honors

2013-14	Pennsylvania Space Grant Consortium Graduate Fellow
2013	Multi-modal Neuroimaging Training Program participant
2012	NSF East Asia and Pacific Summer Institutes Fellow
2012	Mu Sigma Rho, Statistics Honor Society, Charter member Penn State chapter
2011	Center for Language Science PIRE Graduate Fellow
2009	University Graduate Fellowship, Pennsylvania State University

Other Awards & Funds

2013	Bruce V. Moore Graduate Fellowship in Psychology *($1100)*
2013	Pennsylvania Space Grant Consortium *($7500)*
2013	Center for Language Science Conference Support *($120)*
2013	Center for Language Science Conference Support *($150)*
2012	Penn State Confucius Institute Scholarship *($1000)*
2011	Center for Language Science Conference Support *($270)*
2010	Graduate School NSF-GRFP Incentive Award (*$500*)
2010	Robert J. Glushko and Pamela Samuelson Foundation Student Travel Grant *($460*)
2010	Research and Graduate Office Travel Award *($150)*
2010	Donald A. Trumbo Psychology Department Student Research Award *($150)*
2010	Center for Language Science Conference Support *($200)*
2009	College of Liberal Arts NSF-GRFP Incentive Award *($1000)*

Teaching Experience

Spring 2014	Lab Instructor, Penn State University
	PSYCH 301W – Basic Research Methods in Psychology
Fall 2013	Graduate Instructor, Penn State University
	PSYCH 457 – Psychology of Language
Summer 2013	Online Instructor, Penn State University (World Campus)
	PSYCH 200 – Introductory Statistics
2010-2011	Lab Instructor, Penn State University
	PSYCH 301W – Basic Research Methods in Psychology
2008	Teaching Assistant, Wheaton College
	PSYC 772 – Cognition and Emotion

Research Experience

2014 - pres.	Raizada Lab, Rochester Center for Brain Imaging
2013	Statistical Consulting intern: Guangwai Brain and Language Lab
	Guangdong University of Foreign Studies (telecommuting)
2010 - 2013	Research assistant: Brain, Language, and Computation Lab
	Center for Language Science, Penn State University
2012	Research rotation: Comparative Communication Laboratory, Adult Lab
	Center for Language Science, Penn State University
2012	East Asia and Pacific Summer Institute Fellow, National Science Foundation
	Beijing Normal University: State Key Lab for Cognitive Neuroscience and Learning
2011	Partnership for International Research and Education Fellow, NSF
	Beijing Normal University: State Key Lab for Cognitive Neuroscience and Learning
July 2010	Guest researcher: Cognitive Neuroengineering & Quantitative Experimental Research Collaborative, Drexel University
2008 - 2009	Research assistant: Visual Psychophysics Lab, Wheaton College

Computational & Technical Experience

Matlab (incl. SPM8, SOM Toolbox, NIRS-SPM), R/R-Studio, SPSS, E-Prime 1 & 2, HomER/HomER2), Python, Multi-voxel pattern analysis of fMRI and fNIRS data, Siemens 3T MRI, Functional near-infrared spectroscopy (Hitachi ETG-4000, Techen CW6), Connectionist modeling, Behavioral psycholinguistic measures, SPM and connectivity modeling of functional neuroimaging data

Papers Published

Zinszer, B. D., Anderson, A. J., Kang, O., Wheatley, T., & Raizada, R.D.S. (2016). Semantic structural alignment of neural representational spaces enables translation between English and Chinese words. *Journal of Cognitive Neuroscience,* in press.

Karuza, E., Li, P., Weiss, D. J., Bulgarelli, F., **Zinszer, B. D.,** & Aslin, R. (2016). Sampling over non-uniform distributions: A neural efficiency account of the primacy effect in statistical learning. *Journal of Cognitive Neuroscience,* in press.

Fang, S., **Zinszer, B. D.**, Malt, B.C., & Li, P. (2016). Bilingual object naming: A connectionist model. *Frontiers in Psychology: Cognitive Science*, in press. doi:10.3389/fpsyg.2016.00644

Anderson, A. J., **Zinszer, B. D.**, & Raizada, R. (2016). Representational similarity encoding for fMRI: Pattern-based synthesis to predict brain activity using stimulus-model-similarities. *Neuroimage, 128, 44-53.* doi:10.1016/j.neuroimage.2015.12.035

Zinszer, B. D., Chen, P., Wu, H., Shu, H., & Li, P. (2015). Second language experience modulates neural specialization for L1 lexical tones. *Journal of Neurolinguistics*, *33*, 50-66. doi:10.1016/j.jneuroling.2014.09.005

Zinszer, B. D., Malt, B., Ameel, E., Li, P. (2014). Native-likeness in second language lexical categorization reflects individual language history and linguistic community norms. *Frontiers in Psychology, 5*(01203). doi:10.3389/fpsyg.2014.01203.

Zou, L., Abutalebi, J., **Zinszer, B.**, Yan, X., Shu, H., Peng, D., Ding, G. (2012). Second language experience modulates functional brain network for the native language production in bimodal bilinguals. *Neuroimage, 62*(3), 1367-75.

Papers Under Review / Revision

Emberson, L., **Zinszer, B. D.,** Raizada, R. D. S., & Aslin, R. Decoding the infant mind: Multichannel pattern analysis (MCPA) using fNIRS.

Wu, R., Pruitt, Z., & **Zinszer, B. D.** Dieting shapes rapid attentional selection for search of food images.

Zinszer, B. D., Rolotti, S. V., Li, P. Bayesian word learning in multiple language environments.

Zinszer, B. D., Wang, R., & Li, P. Non-prototypical objects and the importance of categorization in picture naming.

Papers in Preparation

Zinszer, B. D., Wang, R., & Li, P. Bilinguals' native language production shows on-line influence from L2 lexical semantics: evidence from the anterior cingulate and pars triangularis.

Zinszer, B. D., Wang, R., & Li, P. Ventral stream activity in picture naming revisited through richer object naming norms.

Weiss, D. J, Poepsel, T. J., **Zinszer, B. D.** Detecting structural changes in statistical learning.

Refereed Conference Papers

Zinszer, B. D., Anderson, A. J., Raizada, R.D.S. (2016). Chinese and English speakers' neural representations of word meaning offer a different picture of cross-language semantics than corpus and behavioral measures. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.

Zinszer, B. D., Anderson, A. J., Kang, O., Wheatley, T., & Raizada, R.D.S. (2015). You say potato, I say tudou: How speakers of different languages can share the same concept. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*.

Fang, S., **Zinszer, B. D.**, Malt, B.C., & Li, P. (2015). A computational model of object naming convergence in the bilingual lexicon. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*.

Zinszer, B. D. & Weiss, D. J. (2013). When to hold and when to fold: Detecting structural changes in statistical learning. *Proceedings of the 35th Annual Conference of the Cognitive Science Society*.

Zinszer, B. D. & Li, P. (2010). A SOM model of first language lexical attrition. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Refereed Presentations

Zinszer, B. D., Emberson, L., Raizada, R. D. S., & Aslin, R. Decoding the infant mind: Multichannel pattern analysis (MCPA) using fNIRS. Poster to be presented at the Cognitive Neuroscience Society, April 4, 2016.

Zinszer, B. D., Anderson, A. J., Kang, O., Wheatley, T., & Raizada, R.D.S. Chinese and English speakers share representations for word-elicited concepts, but semantic models struggle to capture this similarity. Poster presented at the Society for the Neurobiology of Language, October 16, 2015.

Zinszer, B. D., Wang, R., & Li, P. Bilingual categorization reveals cross-language lexical semantic competition in naming. Talk presented at the 10th International Symposium on Bilingualism, May 2015.

Zhang, T., **Zinszer, B. D.**, Wang, R., & Li, P. Bilinguals' anterior cingulate and *pars triangularis* reflect both native and second language norms during native language production. Poster presented at the 22nd annual meeting of the Cognitive Neuroscience Society, March 2015.

Zinszer, B. D., Poepsel, T., Aslin, R., & Weiss, D. J. When to hold and when to fold: Detecting structural changes in statistical learning. Poster presented at the 39th annual Boston University Conference on Language Development, November 7, 2014.

Zinszer, B. D., Malt, B., Ameel, E, & Li, P. What is a cup? Effects of immersion, language, and learner variables on lexical category convergence. Poster presented at Psychonomic Society 54th Annual Meeting, November 26, 2013.

Zinszer, B. D., Holt, T., Han, W., Shu, H., & Li, P. Age of L2 onset modulates left MTG specialization for L1 lexical tones. Society for the Neurobiology of Language, November 6, 2013.

Zinszer, B. D. & Weiss, D. J. When to hold and when to fold: Detecting structural changes in statistical learning. Poster presented at the 35th Annual Conference of the Cognitive Science Society, August 3, 2013.

Rolotti, S. V., **Zinszer, B. D.**, Carlson, E. A. & Li, P. Bayesian Word Learning in Multiple Languages. Poster presented at the 35th Annual Conference of the Cognitive Science Society, August 3, 2013.

Zinszer, B. D., Malt, B., Ameel, E, & Li, P. Effects of immersion, language, and learner variables on lexical category convergence. Talk presented at the 9th International Symposium of Bilingualism, June 13, 2013.

Weiss, D.J., Poepsel, T., & **Zinszer, B.** Know when to hold 'em: Detecting structural changes in statistical learning. Talk presented at the Association for Psychological Science, Washington, D.C., May 23-26, 2013.

Rolotti, S. V., **Zinszer, B. D.**, & Li, P. Bayesian Inference for Bilingual Word Learning. Poster presented at The Society for Computers in Psychology, November 14, 2012.

Zinszer, B. D. & Li, P. Predictors of native-like categorization in Chinese learners of English. Talk presented at Second Language Research Forum, October 21, 2012.

Zinszer, B. D. & Li, P. Bilingual categorization behavior: internally or externally emergent? Talk presented at the 8th International Symposium of Bilingualism, June 15-18, 2011.

Zinszer, B. D. & Li, P. Cross-Language Lexical Interaction in Object Naming. Poster presented at Psychonomic Society 51st Annual Meeting, November 20, 2010.

Zinszer, B. D. & Li, P. Modeling age of onset in first language lexical attrition. Talk presented at Society for Computers in Psychology 40th Annual Meeting, November 18, 2010.

Zinszer, B. & Li, P. A SOM model of first language lexical attrition. Talk presented at the 32nd Annual Conference of the Cognitive Science Society, Portland, Oregon, August, 2010.

Zinszer, B. D. & Phinney, R. E. Effects of mask-to-target energy ratio on cyclopean metacontrast masking. Poster presented Vision Sciences Society 9th Annual Meeting, May 13-18 2009.

Reviewer
Behavior Research Methods
Bilingualism: Language and Cognition
Brain & Language
Journal of Neurolinguistics

The Modern Language Journal
Neuropsychologia
Workshop on Bilingualism and Cognitive Control (abstracts)

Professional Service
2nd and 3rd grade classroom presenter – Brain Awareness Week, Spring 2016
Consultant – Penn State Statistical Consulting Center, Spring 2013
Delegate – 2nd Young Scientist Forum, US-China Consultation on People-to-People Exchange, 2012
Finalist Round Judge – Pennsylvania Junior Science and Humanities Symposium, 2011
Web Development – Center for Language Science: PIRE (http://www.cls.psu.edu/pire), 2011
Webmaster – Brain, Language, and Computation Lab (http://cogsci.psu.edu), 2009-2011
President of Student Health Advisory Committee – Wheaton College, 2007-2008