

Kinsey Bice

Curriculum Vitae

Current Information

Postdoctoral Fellow
Institute for Learning and Brain Sciences
Department of Psychology
University of Washington

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Seattle, WA 98195
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Education

- 2018-
Present **Postdoctoral Fellow, University of Washington**
Department of Psychology & Institute for Learning and Brain Sciences
(Advisors: Drs. Chantel Prat and Rajesh Rao)
- 2012-2018 **M.S. (2014), Ph.D. (2018), Pennsylvania State University**
Department of Psychology (Advisor: Dr. Judith F. Kroll)
α Dual-Title Doctoral Degree in Language Science
α Specialization in Cognitive and Affective Neuroscience
α Dissertation: *Dynamics of Language Processing and the Consequences for New Language Learning*
- 2016-2018 Visiting Scholar, **University of California-Riverside**
Department of Psychology
- 2008-2012 **B.A., University of Wisconsin-Madison**
Psychology, Spanish
- 2009-2010 International Study Abroad, **University of Hyderabad, India; Universidad Complutense de Madrid, Spain**

Professional Appointments

- 2018-
Present *Postdoctoral Fellow*
Principal Investigators: Drs. Chantel Prat & Andrea Stocco
Cognition and Cortical Dynamics Lab: <https://sites.uw.edu/ccdl/>
Institute for Learning and Brain Sciences
University of Washington
- 2016-2018 *Graduate Research Assistant*
Principal Investigator: Dr. Judith F. Kroll
Bilingualism, Mind, Brain Lab: <http://www.bilingualismmindbrain.com>
University of California-Riverside

- 2015
Fall *Research Internship*
Principal Investigator: Dr. Michele T. Diaz
Human Electrophysiology Facility:
<http://www.imaging.psu.edu/facilities/hef>
Social, Life, and Engineering Sciences Imaging Center
Pennsylvania State University
- 2012-2016 *Graduate Research Assistant*
Principal Investigator: Dr. Judith F. Kroll
Cognition and Language Lab: <http://cls.psu.edu/research/cognition-and-language-laboratory>
Center for Language Science
Pennsylvania State University
- 2011-2012 *Undergraduate Research Assistant*
Principal Investigators: Drs. Maryellen MacDonald and Mark Seidenberg
Language and Cognitive Neuroscience Lab: <http://lcnl.wisc.edu/>
University of Wisconsin-Madison

Funding and Fellowships

- 2018-2020 *Washington Research Foundation Innovation Postdoctoral Fellowship in Neuroengineering*
Application of exogenous and endogenous neuromodulation methods for manipulating specific aspects of language learning
- 2017 *Penn State Global Programs Graduate Student Travel Grant*
Travel support to present research at international conference venue (\$750)
- 2016-2018 *National Science Foundation Doctoral Dissertation Research Grant, BCS-1551892 (PI, Judith F. Kroll): Dynamics of language processing and the consequences for new language learning (\$18,228)*
- 2016 Spring *Pennsylvania State University College of Liberal Arts RGSO Award (\$2,000)*
- 2016 *William Orr Dingwall Neurolinguistics Dissertation Fellowship*
Using ERPs to capture native language changes during foreign language learning (\$30,000)
- 2016
February *Adele Miccio Travel Award, Center for Language Science, Penn State University*
Description of award: <http://cls.psu.edu/news-events/news/adele-miccio-travel-award-for-2015-16>
Sponsor: Dr. Lee Osterhout, Cognitive Neuroscience of Language Lab, University of Washington

Professional Experience

- 2019
Summer *Summer Workshop on the Dynamic Brain*
Co-hosted by the Allen Institute and the Computational Neuroscience Program at the University of Washington
2-week, project-based interdisciplinary course on current state of the neurobiology of sensory processing, neural population dynamics, and computational modeling of brain data: [Workshop Description](#)
Project title: *Characterizing cortical-hippocampal dialogue in neuropixels data.*
- 2017
Summer *National Science Foundation Partnerships in International Research and Education (PIRE) Fellow*
ERP data collection for 3 weeks
Sponsor: Dr. Brendan S. Weekes, University of Hong Kong
- 2016
March-
April *National Science Foundation Partnerships in International Research and Education (PIRE) Fellow*
Acquired training on data analytic techniques for incidental learning study
Sponsor: Dr. Marianne Gullberg, Lund University, Sweden
- 2015
October *Brain Vision Analyzer 2 Workshop*
ERP acquisition and analysis software workshop at the University of California-Riverside
- 2015
March-
April *National Science Foundation Partnerships in International Research and Education (PIRE) Fellow*
Effects of incidental learning while immersed in a bilingual community
ERP data collection for 8 weeks at the University of Hong Kong
Sponsor: Dr. Brendan S. Weekes, University of Hong Kong
- 2014
November *Methods in Language Comprehension Workshop*
University of Trento, Italy
[Workshop description](#)

Publications

*Peer reviewed

Bice, K., & Prat, C. S. (in preparation). *Comparing the effects of frontal and temporal neurostimulation on second language learning.*

Rossi, E., **Bice, K.,** Kürüm, E., & Kroll, J. F. (in preparation). *Dynamic changes in resting-state EEG after short-term new language learning.*

***Bice, K.,** & Kroll, J. F. (under review). *How do language proficiency and working memory shape grammatical processing in the native vs. dominant language?*

***Bice, K.,** Yamasaki, B., & Prat, C. S. (under review). *Bilingual language experience shapes resting-state brain rhythms.*

- *Kroll, J. F., **Bice, K.**, Botezatu, M. R., & Zirnstein, M. (under review). *On the dynamics of lexical access in two or more languages*. In L. Gleitman, A. Papafragou, & J. Trueswell (Eds.), *Handbook of the Mental Lexicon*, New York: Oxford University Press.
- ***Bice, K.**, & Kroll, J. F. (2019). English only? Monolinguals in linguistically diverse contexts have an edge in language learning. *Brain & Language*, *196*, 104644. doi: 10.1016/j.bandl.2019.104644
- Kroll, J. F., & **Bice, K.** (2019). How does the brain accommodate multiple languages? In W. Wolfram & C. Myrick (Eds.). *The 5-minute linguist: Bite-sized essays on language and linguistics*. Third Edition. Sheffield, UK: Equinox Publishers.
- *Zirnstein, M., **Bice, K.**, & Kroll, J. F. (2019). Variation in language experience shapes the consequences of bilingualism. In I. A. Sekerina, L. Spradlin, & V. V. Valian (Eds.), *Bilingualism and Executive Function: An Interdisciplinary Approach* (pp. 35-48). Amsterdam, NL: John Benjamins Publishers.
- *Bogulski, C. A., **Bice, K.**, & Kroll, J. F. (2018). Bilingualism as a desirable difficulty: Advantages in word learning depend on regulation of the dominant language. *Bilingualism: Language and Cognition*. doi:10.1017/S1366728918000858
- ***Bice, K.**, & Kroll, J. F. (2015). Native language change during early stages of second language learning. *NeuroReport*, *26*(16), 966-971. doi: 10.1097/WNR.0000000000000453
- Kroll, J. F., & **Bice, K.** (2015). Bimodal bilingualism reveals mechanisms of cross-language interaction. Commentary on Emmorey, Giezen, & Gollan (2015). Insights from bimodal bilingualism: Psycholinguistic, cognitive, and neural implications of bimodal bilingualism. *Bilingualism: Language and Cognition*, *8*, 1-3. doi: 10.1017/S1366728915000449.
- Kroll, J. F., Dussias, P. E., **Bice, K.**, & Perrotti, L. (2015). Bilingualism, mind, and brain. In M. Liberman & B. H. Partee (Eds.), *Annual Review of Linguistics*, *1*, 377-394.

Invited Talks

- Bice, K. (2020, January). *Comparing the effects of frontal and temporal neurostimulation on second language learning*. Talk given at the Neural Computation and Engineering Connection Conference, University of Washington.
- Bice, K. (2019, November). *How can we improve language learning for adults?* Talk given at the Cognitive Area Brown Bag Series, Department of Psychology, University of Washington.
- Bice, K. (2018, April). *Dynamics of Language Processing and the Consequences for New Language Learning*. Talk given at the Center for Language Science Speaker Series,

Pennsylvania State University.

Bice, K. (2017, October). *Native language change in successful second language acquisition*. Keynote talk at The Selectivity of L1 Attrition workshop, Edinburgh, Scotland, UK.

Bice, K. (2016, April). *The consequences of teaching old dogs new tricks: Dynamics of language processing during adult second language learning*. Talk given at the Language Acquisition Seminar Series, Lund University, Sweden.

Bice, K. (2016, February). *The consequences of teaching old dogs new tricks: Dynamics of language processing during adult second language learning*. Talk given at the Cognitive Neuroscience of Language Lab (PI: Dr. Lee Osterhout), University of Washington.

Bice, K. (2015, April). *Adult second language acquisition and the role of the native language*. Talk given at the Laboratory for Language, Learning, and the Brain (PI: Dr. Patrick Wong), Chinese University of Hong Kong, China.

Contributed Presentations

*Refereed

*Bice, K., & Prat, C. S. (2020, March). *Transcranial Direct Current Stimulation Influences Reliance on Declarative vs. Procedural Learning*. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, Virtual Conference.

*Bice, K., & Kroll, J. F. (2019, June). *Living in linguistically diverse communities bolsters foreign language learning*. Paper presented as part of symposium: Impacts of language diversity on language abilities, executive control, and brain plasticity in bilingual and monolingual adults, 12th International Symposium on Bilingualism, Edmonton, Alberta, Canada.

*Rossi, E., Kürüm, E., & Bice, K. (2019, June). *Dynamic changes in resting state EEG after short-term new language learning*. Paper presented as part of symposium: Innovative approaches using resting-state functional connectivity to understand bilingualism and cognition, 12th International Symposium on Bilingualism, Edmonton, Alberta, Canada.

*Bice, K. & Kroll, J. F. (2019, June). *Competition and Coordination Change the Native Language*. Paper presented as part of symposium: What does second language learning reveal about plasticity?, 12th International Symposium on Bilingualism, Edmonton, Alberta, Canada.

Bice, K., Kürüm, E., Kroll, J. F., & Rossi, E. (2018, November). *Tracking changes in resting-state EEG during novel language learning*. Poster presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA.

*Bice, K. (2018, February). *Early literacy in heritage language processing*. Paper presented as part of symposium: Heritage Speakers' Language Processing and Language Learning, 3rd International Conference on Heritage/Community Languages, University of California-Los Angeles, CA.

- Bice, K., & Kroll, J. F. (2017, October). *Using ERPs to investigate the stability of individual differences in sentence processing in two languages*. Poster presented at Bilingualism Matters Inaugural Conference, University of California-Riverside.
- *Bice, K., & Kroll, J. F. (2017, June). *What makes bilinguals better vocabulary learners? Examining the contribution of language experience, phonological openness, and domain-general learning*. Talk given at the 11th International Symposium on Bilingualism, Limerick, Ireland.
- Bice, K. (2016, October). *What the native language can tell us about new language learning*. Talk given at the Cognitive Area Brown Bag Meeting, University of California-Riverside, CA.
- *Bice, K. & Kroll, J. F. (2016, August). *Bilingualism creates desirable difficulties*. Invited poster presented at special seminar *Memory Dynamics and the Optimization of Instruction Revisited* at the Annual Meeting of the American Psychological Association, Denver, CO.
- *Bice, K., & Kroll, J. F. (2016, July). *Relating L2 phonological production and perception to L2 vocabulary acquisition*. Poster presented at the International Workshop on Language Production, San Diego, CA.
- Bice, K., & Kroll, J. F. (2016, May). *Investigating why language learning is difficult and variable: Across learning settings, populations, and languages*. Poster presented at the National Science Foundation Partnerships in International Research and Education Annual Meeting, Washington D.C.
- *Bice, K., Ezrina, E., Rossi, E., Weekes, B. S., & Kroll, J. F. (2016, May). *Language knowledge and context affect how comprehension spills over to production*. Poster presented at the International Meeting of the Psychonomic Society, Granada, Spain.
- Bice, K., Weekes, B. S., & Kroll, J. F. (2015, November). *Regulating the L1 across contexts to investigate L2 acquisition*. Poster presented at the Annual Meeting of Psychonomics, Chicago, IL.
- *Bice, K., & Kroll, J. F. (2015, May). *Understanding L2 proficiency by comparing comprehension and production performance*. Talk given at the 10th International Symposium on Bilingualism, Rutgers University, NJ.
- *Kroll, J. F., & Bice, K. (2015, May). *Negotiating more than one language in the brain: It's about the native language too!* Paper presented as a part of a special session, Neural correlates of bilingual language processing: Using bilingualism to study brain plasticity, E. Rossi (organizer), 10th International Symposium on Bilingualism, Rutgers University, NJ.
- Bice, K., Massimino, B., & Kroll, J. F. (2014, November). *Examining native language performance to test a new hypothesis about second language learning*. Poster presented at the Annual Meeting of Psychonomics, Long Beach, CA
- Bice, K. (2014, April). *A New Hypothesis About Second Language Learning*. Talk given to Cognitive Area Brown Bag, Pennsylvania State University, PA
- *Bice, K., Massimino, B., & Kroll, J. F. (2013, October). *What the native language tells us about second language learning*. Poster presented at the International Conference on Multilingualism: Linguistic Challenges and Neurocognitive Mechanisms, McGill

University, Montreal, Canada.

Bice, K. (2013, March). *L1 Change in the Face of L2 Learning*. Talk given to Cognitive area faculty and graduate students for the Cognitive Area Brown Bag, Pennsylvania State University, PA

Bice, K. (2013, March). *First Language Plasticity During Adult Second Language Learning*. Poster presented at Young Scholar Speaker Series Poster Session, Pennsylvania State University, PA.

Teaching Experience

- 2019 *Guest Lecture on Adult Language Learning- Neuroscience of Mind (302)*
University of Washington
- 2018 *Guest Lecture- Honors Research Seminar in Psychology (350)*
University of Washington
- 2017-
2018 *Instructor- Introduction to Cognitive Psychology (256)*
Online course of 35 students.
Penn State University
- 2016
Fall *Graduate Student Online Teaching Certificate*
<http://wcf.d.psu.edu/programs/graduate-student-online-teaching-certificate/>
Penn State University
- 2014
Fall *Teaching Assistant- Basic Research Methods in Psychology (301W)*
Independently taught section of 20 students
Instructor: Dr. Nicholas Pearson
Penn State University
- 2013
Fall *Teaching Assistant- Work Attitudes and Motivation (484)*
Instructor: Paige Deckert
Penn State University
- 2013
Spring *Teaching Assistant- Psychology of Language (487)*
Guest Lectured on Bilingualism
Instructor: Rhonda McClain
Penn State University
- 2012
Fall *Teaching Assistant- Introduction to Psychology, Honors (100H)*
Guest Lectured on Language Development
Instructor: Dr. William Ray
Penn State University
- 2011-2012 *Spanish Instructor*
After-school language program for elementary students
Futura Language Professionals
<http://futuraadventures.com/>

Madison, WI

2010
Spring *English Tutor*
Canterbury English
Madrid, Spain

Professional Service and Affiliations

Ad Hoc Reviewer:

Bilingualism: Language and Cognition; Brain Research; Cognition; Cognitive Science;
International Journal of Bilingualism; Journal of Experimental Psychology: General;
Journal of Experimental Psychology: Learning, Memory, and Cognition; Second
Language Research; Studies in Second Language Acquisition

2013-
Present *Women in Cognitive Science*
<http://womenincogsci.org/>

2014-2016; *Bilingualism Matters*
2017-2018 <http://www.bilingualism-matters.ppls.ed.ac.uk/>
Penn State: <http://cls.psu.edu/bilingualism-matters>
University of California, Riverside:
<https://ideasandsociety.ucr.edu/programs/bilingualism/>

2012-2018 *Center for Language Science*
<http://cls.psu.edu/>

2017 *Co-Organizer and Event Staff for Bilingualism Matters*
Bilingualism Matters chapter launch at University of California-Riverside
Training and multilingualism conference (2-day event)

2017 *Search Committee*
NSF Partnerships in International Research and Education
Administrative Support position
University of California-Riverside

2015-2016 *Student Advisory Committee Member for the Social, Life, and Engineering
Sciences Imaging Center*
Reviewed dissertation proposals for MRI scanning hours
Advised the Center on matters of graduate student concerns
Search committee for MR Tech position

2014 *Young Scholar Speaker Series Co-Organizer*
<http://cls.psu.edu/news-events/photos-of-previous-events/young-scholar-speaker-series/2014>
Center for Language Science