University of Pittsburgh | 651 Learning Research & Development Center | car120@pitt.edu | 740 507-3935

**Education**

In progress **Ph.D. program, Cognitive Psychology and Cognitive Neuroscience**

Department of Psychology/Learning Research and Development Center, Center for the Neural Basis of Cognition

University of Pittsburgh, Pittsburgh PA

Advisor: Natasha Tokowicz, PhD

2017 **M.S., Cognitive Psychology**

Department of Psychology, University of Pittsburgh, Pittsburgh, PA

Advisor: Natasha Tokowicz, PhD

2011 **B.A.**, **Psychology**

Grinnell College, Grinnell IA

**Academic Honors**

2018 *Language Learning* Dissertation Grant ($2000)

2017 Best Poster Award from Second Language Research Forum ($250)

2017 Women in Cognitive Science International Collaborations Award ($1500)

2016-18 Behavioral Brain Research Training Fellowship, NSF 4T32GM081760-10

($40,000/year for tuition, stipend, benefits, and travel)

2016 Honorable Mention, NSF Graduate Research Fellowship Program

2015 Honorable Mention, NSF Graduate Research Fellowship Program

**Publications**

**Rice, C.,** & Tokowicz, N. (revise and resubmit). A review of laboratory studies of adult second language vocabulary training.

**Rice, C.,** Fraundorf, S.H., Liburd, T., Tokowicz, N. (2019). The complex interactions of context availability, polysemy, word frequency and orthographic variables during lexical processing.Advance online publication. doi: https://doi.org/10.3758/s13421-019-00934-4

**Rice, C.,** Beekhuizen, B., Dubrovsky, V., Stevenson, S., & Armstrong, B. C. (2018). A comparison of homonym meaning frequency estimates derived from movie and television subtitles, free association, and explicit ratings. *Behavior Research Methods.* Advance online publication. doi: https://doi.org/10.3758/s13428-018-1107-7

Litman, D., Paletz, S. Allegretti, S., Rahimi, Z., & **Rice, C.** (2016, November). The Teams Corpus and entrainment in multi-party spoken dialogues. *Proceedings Empirical Methods in Natural Language Processing*, Austin: TX. doi: 10.18653/v1/D16-1149

Nittrouer, S., Sansom, E., Low, K., **Rice, C.,** & Caldwell-Tarr, A. (2014). Language structures used by kindergarteners with cochlear implants: Relationship to phonological awareness, lexical knowledge and hearing-loss. *Ear & Hearing, 35,* 506-518.

Nittrouer, S., Caldwell-Tarr, A., Tarr, E., Lowenstein, J., **Rice, C.,** & Moberly, A. (2013). Improving speech-in-noise recognition for children with hearing loss: Potential effects of language abilities, binaural summation, and head shadow. *International Journal of Audiology, 52,* 513-525.

**Conference Presentations**

Tokowicz, N., **Rice, C.,** & Terrazas, G. (2018, June). *Words with multiple translations across languages: Alleviating the learning disadvantage.* Poster presented at the 6th International Workshop on Advanced Learning Sciences: Perspectives on the learner: Cognition, Brain, and Education, Pittsburgh, PA.

Armstrong, B.C., Beekhuizen, B., **Rice, C.,** Milic, S., & Stevenson, S. (2018, July). *How are ambiguous word meanings learned, represented, and processed?  Insights from computational modeling*. In the B.C. Armstrong & J.M. Rodd (Co-organizers) symposium on *Accessing the meanings of words: Perspectives on lexical ambiguity* at the 2018 Joint Meeting of the Canadian Society for Brain, Behavior, and Cognitive Science and the Experimental Psychology Society, St. John’s, Newfoundland. Oral presentation.

Beekhuizen, B., **Rice, C.,** Dubrovsky, V., Stevenson, S., Armstrong, B. (2017, November). *Comparing meaning frequency estimates: Corpus-based modeling vs. human norms.* Talk presented at the Annual Meeting of the Society for Computers in Psychology, Vancouver, British Columbia, Canada.

**Rice, C.,** Ekves, Z., & Tokowicz, N. (2017, November). *Mitigating the translation-ambiguity disadvantage: The effect of presenting multiple translations simultaneously.* Poster presented at the Psychonomic Society Annual Meeting, Vancouver, British Columbia, Canada.

**\*Rice, C.** & Tokowicz, N. (2017, September). *Teaching translation ambiguous words: Simultaneous or consecutive order of presentation.* Poster presented at the Second Language Research Forum Meeting, Columbus, OH. ***\*Best Poster Award***

**Rice, C.,** Balass, M., Tokowicz, N. (2016, November). *Effects of consecutive and random presentation of varied contexts on the acquisition of new word meaning.* Poster presented at the Psychonomic Society Annual Meeting, Boston, MA.

**Rice, C.,** Tokowicz, N. Fraundorf, S.H., Liburd, T.L. (2016, March). *The polysemy advantage in lexical access: The role of context availability and orthographic neighborhood variables.* Poster session presented at the Graduate Student Expo, University of Pittsburgh, PA.

**Rice, C.,** Tokowicz, N. Fraundorf, S.H., Liburd, T.L. (2015, November). *The polysemy advantage in lexical access: The role of context availability and orthographic neighborhood variables.* Poster session presented at the Psychonomic Society Annual Meeting, Chicago, IL.

Nittrouer, S., Caldwell-Tarr, A., **Rice, C.,** & Lowenstein, J. (2013, July). *Speech perception of second-grade children with cochlear implants: Comparison to typical children.* Poster session presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

**Invited Talks and Colloquia**

*A review of laboratory studies of adult second language vocabulary training* (2018, April). University of Pittsburgh, Department of Linguistics.

*The polysemy advantage in lexical access: The role of context availability and orthographic neighborhood variables* (2017, August)*.* University of Toronto, Psycholinguistics Group, Departments of Psychology, Linguistics, and Computer Science.

**Teaching Experience**

Fall 2016, Spring 2019 **Teaching Fellow,** Introduction to Psychology

Department of Psychology, University of Pittsburgh

Summer 2016 **Instructor,** Introduction to Psychology

Department of Psychology, University of Pittsburgh

Spring 2016 **Guest Lecturer,** First Experiences in Research Seminar

University of Pittsburgh

“*Research Methods and Statistics in Psychology”*

Spring 2016 **Guest Lecturer**,Introduction to Psychology

Department of Psychology, University of Pittsburgh

“*Associative and Cognitive Learning”*

Fall 2014, Spring 2016 **Teaching Assistant,** Introduction to Psychology

Department of Psychology, University of Pittsburgh

Fall 2015 **Teaching Assistant,** Learning and Motivation Lab

Spring 2013 **Teaching Assistant,** Participatory Planning

Department of City and Regional Planning, The Ohio State University

Fall 2010 **Teaching Assistant,** Introduction to Psychology w/lab

Psychology Department, Grinnell College

**Academic Service and Mentorship**

2019 Ad hoc reviewer, *Journal of Experimental Psychology: Learning, Memory, and Cognition*

2019 Ad hoc reviewer, *Cognitive Science Society*

2018-19 Honors Thesis Committee Member (Rodica Constantine, Kyra Samuda)

2017 Ad hoc reviewer, *Language, Cognition and Neuroscience*

2017 Ad hoc reviewer, *Quarterly Journal of Experimental Psychology*

2016-17 Cognitive Psychology Department Student Representative

2016-17 Cognitive Psychology Department Brown Bag Coordinator

2015-17 Hot Metal Bridge Post-Baccalaureate Program Mentor

2015-2016 Presented EEG demonstration to AP Psychology students on three occasions

2015-16 Department of Psychology Diversity Committee Member

2015-18 Graduate Student Organizing Committee Member

2014-19 Undergraduate Research Assistant Mentor (20 undergraduates mentored)

**Statistical Training & Software**

*Software packages:* R, SAS, SPSS, LaTeX

*Statistical analyses:* ANOVA, linear and logistic regression modeling, hierarchical linear modeling (HLM), linear mixed effects modeling (LME), non-parametric tests, longitudinal analyses, neural network modeling (including word2vec and GloVe), co-occurrence analyses, EEG/ERP data analysis