

Wednesday Bushong

wbushong@ur.rochester.edu

RESEARCH INTERESTS	language processing & production, information theory, cue integration, statistical learning, statistical methods in cognitive science
EDUCATION	<p>Ph.D Candidate, Brain and Cognitive Sciences 2020 (expected) University of Rochester</p> <p>M.A. Brain and Cognitive Sciences 2018 University of Rochester</p> <p>B.A. Linguistics, with Distinction 2015 B.S. Cognitive Science, specialization in Neuroscience, with Distinction University of California, San Diego</p>
PUBLICATIONS	<p>Bushong, W. and Jaeger, T. F. (in preparation). Cumulative syntactic priming as rational expectation adaptation.</p> <p>Bushong, W. and Jaeger, T. F. (in preparation). Dynamic re-weighting of acoustic and contextual cues in spoken word recognition.</p> <p>Jaeger, T. F., Burchill, Z. and Bushong, W. (under review). Strong evidence for expectation adaptation during language understanding, not a replication failure: A reply to Harrington Stack, James, and Watson (2018).</p> <p>Bicknell, K., Bushong, W., Tanenhaus, M., and Jaeger, T. F. (in revision). Listeners can maintain and rationally update uncertainty about prior words.</p>
CONFERENCE PROCEEDINGS	<p>Bushong, W. and Jaeger, T. F. (2019). Modeling long-distance cue integration in spoken word recognition. To appear in <i>Proceedings of NAACL 2019 Cognitive Modeling and Computational Linguistics Workshop</i>.</p> <p>Bushong, W. and Jaeger, T. F. (2019). Memory maintenance of gradient speech representations is mediated by their expected utility. To appear in <i>Proceedings of the Forty-First Annual Conference of the Cognitive Science Society</i>.</p> <p>Bushong, W., and Jaeger, T. F. (2017). Maintenance of perceptual information in speech perception. In <i>Proceedings of the Thirty-Ninth Annual Conference of the Cognitive Science Society</i>.</p>
CONFERENCE PRESENTATIONS	<p>Bushong, W. and Jaeger, T. F. (2018, September). <i>Modeling long-distance cue integration in spoken word recognition</i>. Poster to be presented at the Forty-First Annual Conference of the Cognitive Science Society, Montreal, Canada. <i>*Also presented at CMCL 2019 (see Conference Proceedings)</i></p> <p>Bushong, W. and Jaeger, T. F. (2018, September). <i>Expected utility of later context mediates maintenance of subcategorical information</i>. Poster presented at the 24th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP), Berlin, Germany. <i>*Also presented at CogSci 2019 (see Conference Proceedings)</i></p> <p>Bushong, W. and Jaeger, T. F. (2018, September). <i>Cue reliability and adaptive re-weighting in spoken word recognition</i>. Poster presented at the 24th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP), Berlin, Germany. <i>*Also presented at CUNY 2018</i></p> <p>Bushong, W., Burchill, Z., and Jaeger, T. F. (2018, September). <i>Understanding changes in garden-paths as expectation adaptation</i>. Poster presented at the 24th Annual Conference on Architectures</p>

and Mechanisms for Language Processing (AMLaP), Berlin, Germany.

Burchill, Z., **Bushong, W.** and Jaeger, T. F. (2018, September). *Wasted power and false interactions in reading time analyses*. Poster presented at the 24th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP), Berlin, Germany.

Bushong, W. and Jaeger, T. F. (2018, March). *Cue reliability and re-weighting in speech perception*. Poster presented at the 31st Annual CUNY Conference on Human Sentence Processing, Davis, CA.

Bushong, W., and Jaeger, T. F. (2017, March). *Expectation adaptation to high-level linguistic constraints on word order*. Talk presented at the 30th Annual CUNY Conference on Human Sentence Processing, Cambridge, MA.

Bushong, W., Bicknell, K., and Jaeger, T. F. (2017, March). *Listeners maintain uncertainty about linguistic input*. Poster presented at the 30th Annual CUNY Conference on Human Sentence Processing, Cambridge, MA. **Also presented at CogSci 2017 (see Conference Proceedings)*

Bushong, W. and Jaeger, T. F. (2016, October). *Processing the relative ordering of definite and indefinite noun phrases*. Poster presented at the Dimensions of D Workshop, Rochester, NY.

Bushong, W., Morgan, E., Yen, M., and Levy, R. (2015, September). *Compositional and holistic representations in multiword expressions*. Poster presented at the 21st Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP), Valletta, Malta.

Bushong, W., Ürgen, B. A., Miller, L. E., and Saygin, A. P. (2015, May). *Influence of form and motion on biological motion prediction*. Poster presented at Vision Sciences Society 15th Annual Meeting, St. Pete, Florida.

INVITED PRESENTATIONS **Bushong, W.**, Burchill, Z., and Jaeger, T. F. (2018, September). Learning to expect the unexpected: adaptation to new distributions of grammatical structures. Poster presented at NSF NRT PI Meeting, Washington, D.C.

Bushong, W. (2017, September). Maintenance of perceptual information in speech perception. Talk presented at University of Rochester NRT Mini-Conference, Rochester, NY.

THESES **Bushong, W.** (2015). *Compositional and holistic processing in novel and attested multiword expressions*. Undergraduate Honors Thesis, Department of Linguistics, UC San Diego. (advisor: Roger Levy)

Bushong, W. (2015). *Influence of form and motion on biological motion prediction*. Undergraduate Honors Thesis, Department of Cognitive Science, UC San Diego. (committee: Ayşe Saygin, Seana Coulson, Burcu Ürgen)

TEACHING EXPERIENCE *At University of Rochester*
Co-Instructor, BCS 152: Language & Psycholinguistics Aug 2018 – Dec 2018
Teaching Assistant, BCS 152: Language & Psycholinguistics Aug 2017 – Dec 2017
Teaching Assistant, CSP 519: Data Analysis II: General Linear Models Jan 2017 – May 2017
Teaching Assistant, BCS 111: Foundations of Cognitive Science Aug 2016 – Dec 2016
At UC San Diego
Instructional Assistant, COGS 14A: Introduction to Research Methods Sep 2013 – Dec 2013

FELLOWSHIPS AND AWARDS Teaching-As-Research (TAR) Fellowship, Center for the Integration of Research, 2019
Teaching, and Learning (CIRTL)
Donald M. and Janet C. Barnard Fellowship, University of Rochester 2018 – 2019
Edward Peck Curtis Award for Excellence in Graduate Teaching, University of Rochester 2018
NSF National Research Training (NRT) Fellowship, University of Rochester 2016 – 2018
NSF Graduate Research Fellowship Honorable Mention 2015

	Provost Fellowship, University of Rochester	2015 – 2017
	Outstanding Graduate in Linguistics, UC San Diego	2015
	Chancellor’s Scholarship, UC San Diego	2011 – 2015
ACADEMIC SERVICE	<i>At University of Rochester</i> Graduate Representative, Graduate Admissions Committee	Fall 2018 – Spring 2019
	Graduate Representative, Title IX Education Assessment Committee	Fall 2018 – Spring 2019
REVIEWING	<i>Memory & Cognition</i> (2019) <i>Cognitive Science</i> (2018) <i>The Annual Meeting of the Cognitive Science Society</i> (2017-19)	
MENTORING EXPERIENCE	<i>Undergraduates at University of Rochester</i> 2018: Nicole Vieyto 2017: Bethany Gardner 2016 – 2017: Evan Hamaguchi 2015 – 2016: Christopher Langfield	
RESEARCH EXPERIENCE	<i>Current Research Advisors</i> 2015 – current: T. Florian Jaeger (Department of Brain & Cognitive Sciences, University of Rochester) <i>Previous Research Advisors</i> 2013 – 2015: Roger Levy (Department of Brain & Cognitive Sciences, MIT) 2014 – 2015: Ayşe Saygin (Department of Cognitive Science, UC San Diego) 2014: Noah Goodman (Department of Psychology, Stanford) 2013 – 2014: Marta Kutas (Department of Cognitive Science, UC San Diego)	
CLUBS & ORGANIZATIONS	<i>At University of Rochester</i> IT Officer, Graduate Student Association	Jun 2016 – Jun 2018
	<i>At UC San Diego</i> Vice President, Cognitive Science Student Association	Jun 2014 – Jun 2015
	Reviewer, Impulse Undergraduate Neuroscience Journal	Nov 2013 – Jun 2015
	Professional Chair, Cognitive Science Student Association	Dec 2013 – Jun 2014
	President, Linguistics Undergraduate Association	Jun 2013 – Jun 2015
PROGRAMMING SKILLS	R, Python, MATLAB/Octave	