

WEDNESDAY BUSHONG

<https://wbushong.github.io>

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EMPLOYMENT

Assistant Professor

Department of Psychology, University of Hartford

August 2020 –

EDUCATION

University of Rochester

Ph.D, Brain & Cognitive Sciences

August 2020

Dissertation: Maintenance of subcategorical information in spoken word recognition

M.A., Brain & Cognitive Sciences

June 2018

University of California, San Diego

B.S., Cognitive Neuroscience with Distinction

June 2015

Thesis: Influence of form and motion on biological motion perception

B.A., Linguistics with Distinction

June 2015

Thesis: Compositional and holistic processing in novel and attested multiword expressions

PEER-REVIEWED JOURNAL ARTICLES

Bushong, W. and Jaeger, T. F. (2019). Dynamic re-weighting of acoustic and contextual cues in spoken word recognition. *The Journal of the Acoustical Society of America*, 146(2), EL135-EL140.

Bicknell, K., **Bushong, W.**, Tanenhaus, M., and Jaeger, T. F. (in revision). Listeners can maintain and rationally update uncertainty about prior words.

PEER-REVIEWED CONFERENCE PROCEEDINGS PAPERS

Bushong, W. and Jaeger, T. F. (2019). Memory maintenance of gradient speech representations is mediated by their expected utility. In *Proceedings of the Forty-First Annual Conference of the Cognitive Science Society*.

Bushong, W. and Jaeger, T. F. (2019). Modeling long-distance cue integration in spoken word recognition. In *Proceedings of NAACL 2019 Cognitive Modeling and Computational Linguistics Workshop*.

Bushong, W., and Jaeger, T. F. (2017). Maintenance of perceptual information in speech perception. In *Proceedings of the Thirty-Ninth Annual Conference of the Cognitive Science Society*.

INVITED PRESENTATIONS

“Maintenance of subcategorical information in spoken word recognition.” (2021). Cognitive Science Brown Bag, Villanova University.

“Uncertainty maintenance during spoken word recognition.” (2019). ALPS Lab, Stanford University.

“Learning to expect the unexpected: Adaptation to new distributions of grammatical structures.” (2018). NSF NRT PI Meeting, Washington, D.C.

“Maintenance of perceptual information in speech perception.” (2017). University of Rochester NRT Mini-Conference, Rochester, NY.

PEER-REVIEWED CONFERENCE ABSTRACTS

Bushong, W. and Jaeger, T. F. (2021, March). *Modeling subcategorical information maintenance in spoken word recognition*. Short talk presented at the 34th Annual CUNY Conference on Human Sentence Processing, Philadelphia, PA.

Bushong, W. and Jaeger, T. F. (2019, July). *Modeling long-distance cue integration in spoken word recognition*. Poster presented at the Forty-First Annual Conference of the Cognitive Science Society, Montreal, Canada.

Bushong, W. and Jaeger, T. F. (2018, September). *Expected utility of later context mediates maintenance of subcategorical information*. Poster presented at the 24th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP), Berlin, Germany.

Bushong, W. and Jaeger, T. F. (2018, September). *Cue reliability and adaptive re-weighting in spoken word recognition*. Poster presented at the 24th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP), Berlin, Germany.

Bushong, W., Burchill, Z., and Jaeger, T. F. (2018, September). *Understanding changes in garden-paths as expectation adaptation*. Poster presented at the 24th Annual Conference on Architectures 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.

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.

TEACHING EXPERIENCE

At University of Hartford

Instructor

PSY 311: Brain and Behavior (FA 2021, FA 2020)

PSY 372: Statistics for Psychology (SP 2022, FA2021, SP 2021 x 2, FA 2020 x 2)

PSY 393: The Psychology of Language (SP 2022, SP 2021)

PSY 470W: Research Methods for Psychology (FA 2021)

At University of Rochester

Instructor

BCS 152: Language & Psycholinguistics (co-instructor with Dr. Martin Yang; FA 2018)

BCS 265: Language & the Brain (SP 2020)
 CSP 502: Cognitive Foundations of Behavior (SU 2019)
Teaching Assistant
 BCS 111: Foundations of Cognitive Science (FA 2016)
 BCS 152: Language and Psycholinguistics (FA 2017)
 CSP 519: General Linear Models II (SP 2017)

At UC San Diego

Instructional Assistant

COGS 14A: Introduction to Research Methods (FA 2013)

Workshops and Guest Lectures

Functional programming using R's purrr package, BCS 512: Behavioral Research Methods, University of Rochester (2019)

Adaptation during speech perception, BCS 152: Language & Psycholinguistics, University of Rochester (2019)

R programming: Basic data wrangling and visualization, Human Language Processing Lab undergraduate research assistant meeting series (2016)

AWARDS AND HONORS

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
CUNY Sentence Processing Conference Student Travel Award	2017
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

ADVISING & MENTORSHIP

Undergraduate Research Assistants (University of Hartford)

David Sands	2022–
Daniel LaMarche	2020–
→ Awarded University of Hartford Student Research Award Fall 2021	
Sage Reeves	2020–
→ Awarded University of Hartford Student Research Award Fall 2021	

Undergraduate Honors Thesis Committees (University of Hartford)

Kate Pascarello (secondary member)	2021
Ayanna Perez (secondary member)	2021

High School Research Mentees (Glastonbury High School ARM Program)

Gabby Agcaoili	2021–2022
Anzal Khan	2021–2022

SERVICE

Ad-Hoc Reviewing

Journal Articles

Attention, Perception, & Psychophysics (2020; 1 paper)

Journal of the Acoustical Society of America Express Letters (2020; 1 paper)

Memory and Cognition (2019; 1 paper)

Cognitive Science (2018; 1 paper)

Conference Proceedings Papers

The Annual Meeting of the Cognitive Science Society (2017–2021; 11 papers)
Empirical Methods in Natural Language Processing (2021; 1 paper)

Conference Abstracts

The Annual Conference on Architectures and Mechanisms for Language Processing (2020–2021; 14 abstracts)
The Annual Conference on Human Sentence Processing (2022)

Institutional Service

University of Hartford (School of Arts & Sciences)

Peer Support Workshop faculty liaison (statistics section)	2021–
Arts & Sciences Honors Committee	2021–2022
Diversity Criteria Working Group	2021

University of Hartford (Psychology Department)

Essential Learning Outcomes evaluator	2021–2022
Search committee for PsyD faculty	2021–2022
Anti-racism book club organizer	2021
Hybrid Teaching Support Faculty Fellow	2021
Search committee for undergraduate faculty	2020–2021

At University of Rochester

Title IX Education Assessment Committee (University-wide)	2018–2020
Graduate Admissions Committee (Department of Brain & Cognitive Sciences)	2018–2019
Transportation Advisory Committee (University-wide)	2017–2018; 2019–2020
Strategic Planning – Career Development Sub-Group (University-wide)	2017

Student Organizations

Diversity Officer, Graduate Student Association, University of Rochester	2019–2020
IT Officer, Graduate Student Association, University of Rochester	2016–2018
Vice President, Cognitive Science Student Association, UC San Diego	2014–2015
Professional Chair, Cognitive Science Student Association, UC San Diego	2013–2014
President, Linguistics Undergraduate Association, UC San Diego	2013–2015