

WEDNESDAY BUSHONG

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EMPLOYMENT

Wellesley College	
Assistant Professor of Cognitive & Linguistic Sciences and Psychology	July 2024–
University of Hartford	
Assistant Professor of Psychology	August 2020 – June 2024

EDUCATION

Ph.D, Brain & Cognitive Sciences, University of Rochester	August 2020
M.A., Brain & Cognitive Sciences, University of Rochester	May 2018
B.S., Cognitive Neuroscience, University of California, San Diego	June 2015
B.A., Linguistics, University of California, San Diego	June 2015

PEER-REVIEWED JOURNAL ARTICLES

* joint first authors

+ University of Hartford student/alumni

Bushong, W. (submitted). Strong evidence for maintenance of gradient representations during language processing

Bushong, W. and Jaeger, T. F. (under review at *Journal of Experimental Psychology: Learning, Memory, and Cognition*). Maintenance of subcategorical representations in spoken word recognition is modulated by recent experience.

Bicknell, K.,* **Bushong, W.**,* Tanenhaus, M., and Jaeger, T. F. (under review at *Journal of Memory and Language*). Listeners can maintain and rationally update uncertainty about prior words.

Segool, N. K., Tarampi, M. R., **Bushong, W.**, Woike, A. C.⁺, and Nicklin, J. M. (2023). Writing-Psychology partnerships: The impact of learning community and major cohorts in a first-year college effectiveness trial. *Scholarship of Teaching and Learning in Psychology*

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.

PEER-REVIEWED CONFERENCE PROCEEDINGS PAPERS

Bushong, W., LaMarche, D.⁺, Espinal, E. A.⁺ and Longo, Z. J.⁺ (2024). Listeners optimally integrate acoustic and semantic cues across time during spoken word recognition. In *Proceedings of the Forty-Sixth Annual Conference of the Cognitive Science Society*.

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 LaMarche, D.⁺ (2024, May). *The role of semantic context in spoken word recognition: Prediction and recovery or optimal cue integration?* Poster presented at the 37th Annual Human Sentence Processing Conference, Ann Arbor, MI.

Bushong, W. and Jaeger, T. F. (2023, January) *Modeling subcategorical information in speech perception.* Talk presented at the 97th Annual Meeting of the Linguistic Society of America, Denver, Colorado.

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.

THESES

Bushong, W. (2020). Maintenance of subcategorical information in spoken word recognition. PhD Thesis, Department of Brain and Cognitive Sciences, University of Rochester. (committee: Florian Jaeger, Michael Tanenhaus, Aaron White, Melissa Sturge-Apple)

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)

COMMUNITY TALKS

"Putting the Pieces Together: The Cognitive Psychology of Speed Puzzling." (2024, March). Talk given with Margaret Tarampi at the USA Jigsaw Puzzling Association National Championships.

TEACHING

At Wellesley College

CLSC 110: Introduction to Cognitive Science (Fall 2024)

PSY 217: Cognition (Fall 2024)

At University of Hartford

PSY 372: Statistics for Psychology (Fall & Spring 2020-2024)

PSY 470W: Research Methods for Psychology (Fall & Spring 2021-2024)

PSY 359/393: The Psychology of Language (Spring 2021-2024)

CPS 852c: Dissertation Seminar (Summer 2022)

FYS 100P: Linguistic Diversity and Discrimination in the US (Fall 2022)

PSY 311: Brain and Behavior (Fall 2020-2021)

At University of Rochester

Instructor

BCS 265: Language & the Brain (Spring 2020)

CSP 502: Cognitive Foundations of Behavior (Summer 2019)

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

Teaching Assistant

BCS 152: Language and Psycholinguistics (Fall 2017)

CSP 519: General Linear Models II (Spring 2017)

BCS 111: Foundations of Cognitive Science (Fall 2016)

At UC San Diego

Instructional Assistant

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

Workshops and Guest Lectures

Psychological mechanisms of reading and dyslexia, PSY 542: Psychopathology of Childhood, University of Hartford (2023)

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

At University of Hartford

Psy.D. Dissertation Committees

Kiara Rayford (primary advisor)	2022–
Emily McLain (primary advisor)	2022–

Graduate Research Assistants

Kanishka Mendiratta	2024
Meghan Daniels	2022 – 2023

Undergraduate Research Assistants

Rayna Malhotra	2024
Lay Espinal	2023 – 2024
→ Awarded Dorothy Goodwin Scholarship 2023-24 for research funding (\$2,000)	
Zachary Longo	2023 – 2024
→ Awarded University of Hartford Student Research Award Spring 2024 (\$750)	
Uchenna Duru	2022 – 2023
David Sands	2022 – 2023
Lissa Pimentel	2022
Daniel LaMarche (now a PhD student at University at Buffalo)	2021– 2023
→ Awarded University of Hartford Student Research Award Fall 2021 (\$500)	
Sage Reeves	2021– 2023
→ Awarded University of Hartford Student Research Award Fall 2021 (\$500)	
Briyani Belassi-Jones	2021

Undergraduate Honors Thesis Committees

Emily Welch (secondary member)	2024
Kate Pascarello (secondary member)	2021
Ayanna Perez (secondary member)	2021

Undergraduate Honors Non-Thesis Advisees

Izabela Moczydlowski	2023
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High School Research Mentees (Glastonbury High School ARM Program)

Gabby Agcaoili

2021–2022

Anzal Khan

2021–2022

SERVICE

Reviewing*Journal Articles*

Language, Cognition, & Neuroscience (2023); Ear & Hearing (2021); Attention, Perception, & Psychophysics (2020); Journal of the Acoustical Society of America Express Letters (2020); Memory and Cognition (2019); Cognitive Science (2018)

Conference Proceedings Papers

The Annual Meeting of the Cognitive Science Society (2017–2021, 2024); Empirical Methods in Natural Language Processing (2021)

Conference Abstracts

The Annual Conference on Architectures and Mechanisms for Language Processing (2020–2021, 2024); The Annual Conference on Human Sentence Processing [formerly CUNY] (2022, 2024)

Institutional Service*University of Hartford*

Institutional Review Board

2022–2024

University of Hartford (School of Arts & Sciences)

Peer Support Workshop faculty liaison (statistics section)

2021–2024

Arts & Sciences Honors Committee

2021–2024

Diversity Criteria Working Group

2021

University of Hartford (Psychology Department)

Policies and Procedures committee

2023–2024

Search committee for PsyD faculty

2023–2024

Essential Learning Outcomes evaluator–Teamwork and Collaboration

2023–2024

Search committee for PsyD faculty

2021–2022

Essential Learning Outcomes evaluator–Written Communication and Critical Thinking

2021–2022

Anti-racism book club organizer

2021–2022

Hybrid Teaching Support Faculty Fellow

2021

Search committee for undergraduate faculty

2020–2021

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