Zachary Burchill

academic cv

Department of Brain and Cognitive Sciences
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Education

2014–present **Ph.D Brain and Cognitive Sciences**, *University of Rochester*, Rochester, NY.
Advisor: T. Florian Jaeger

2010–2014 **BA Linguistics, minor in Computer Science**, *University of Pennsylvania*, Philadelphia, PA, *Magna cum laude,* with distinction in Linguistics.
Senior thesis advisors: Delphine Dahan and Lila Gleitman

Research Appointments

2010-2014 **Research Assistant**, *Purdue University, Center for the Computational Study of Cognition, Communication, Control, and Perception*.
Supervised by Jeffrey Siskind

Honors and Awards

- **Cognitive Modeling and Computational Linguistics Best Student Paper**, 2017
- **Cognitive Modeling and Computational Linguistics Student Travel Grant**, 2017
- University of Rochester **Center for Language Sciences (CLS) Fellowship**, 2014-present
- **Benjamin Franklin Scholar**, University of Pennsylvania, 2010-2014
- **College Alumni Society Research Grant**, University of Pennsylvania, 2013-2014
- **Biff Ruttenberg Foundation Scholar**, 2010-2014
- **United Methodist Gift of Hope Scholar**, 2010-2011

Publications

Conference Proceedings Papers

2017 **Burchill, Z.**, Jaeger, T. F., Grounding sound change in ideal observer models of perception. *In Proceedings of the 8th Workshop on Cognitive Modeling and Computational Linguistics*. Association for Computational Linguistics.

2012 Barbu, A., Bridge, A., **Burchill, Z.**, Coroian, D., Dickinson, S., Fidler, S., Michaux, A., Mussman, S., Siddharth, N., Salvi, D., Schmidt, L., Siskind, J. M., Waggoner, J., Wang, S., Wei, J., Yin, Y., & Zhang, Z. Video in sentences out. In de Freitas, N. & Murphy, K. (Eds.), *Proceedings of the Twenty-Eighth Conference on Uncertainty in Artificial Intelligence (UAI)* (pp. 102-12)

Plenary Talks

2016 **Burchill, Z. J.**, Liu, L., Weatherholtz, K., Jaeger, T. F., *Limits on maintaining perceptual information in accented speech processing*. Plenary talk presented at 29th Annual CUNY Sentence Processing Conference, Gainesville, FL

2015 **Burchill, Z. J.**, *Are accents hard to learn?*. Talk presented at the Language Labs Lab-meeting, McGill, Montreal, Canada

Conference Posters

2016 **Burchill, Z. J.**, Jaeger, T. F., *Modeling new conceptions of functional load with perceptual confusability*. 15th Conference on Laboratory Phonology, Ithaca, NY, July 13-16.

2016 Bainton, L.; Rowe, E.; **Burchill, Z.**; Liu, L.; Weatherholtz, K.; Jaeger T. F., *Rapid adaptation to foreign-accented speech: A web-based replication of Clarke and Garrett (2004)*. 15th Conference on Laboratory Phonology, Ithaca, NY, July 13-16.

2016 Rowe, E.; Bainton, L.; Jaeger, F.; Weatherholtz, K.; **Burchill, Z.**; Liu, L., *Rapid adaptation and generalization in foreign-accented speech perception*. Poster presented at the 30th Annual National Conference on Undergraduate Research.

Teaching & Outreach

Teaching

Spring 2015 **Teaching assistant: Language and Psycholinguistics**, *University of Rochester*, & Fall 2016 Conducted recitations, guided students one-on-one and in groups, graded for a large introductory psycholinguistics course.

Mentoring

2015-present Hold weekly meetings for my team of undergraduates, co-led by Linda Liu. We bring in guest lecturers, hold tutorials and career talks, along with discussions of papers that they have recently read.

2015-2016 Along with Kodi Weatherholtz, Florian Jaeger, and later Linda Liu, served as a mentor for an undergraduate team who learned how to run experiments from start to finish by conducting a replication and extension of an important paper in accent adaptation, Clarke & Garrett (2004).

Open-source software

Contributor:

Typos Contributed bug and documentation fixes for R packages in the "Hadleyverse" (e.g. **purrr**)

Silly Contributed to R-Ladies' **praise** R package: a silly package for a group with a serious message about gender diversity

Projects:

Useful Created various the **acl2017** package, which converts R Markdown into a format compatible with the ACL 2017 paper submission standards

Useful   Created and maintain the **zplyr** R package as a collection of functions useful for my research