

Esteban Buz

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Vanderbilt University
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Education

Ph.D., Brain and Cognitive Sciences
University of Rochester, Rochester, NY 2016
Advisors: T. Florian Jaeger Ph.D. & Michael K. Tanenhaus Ph.D.
Dissertation: Speaking with a (slightly) new voice: Investigating speech changes, communicative goals, and learning from past communicative success
Committee: Matthew Goldrick Ph.D. (Northwestern University), T. Florian Jaeger Ph.D., Jeffrey Runner Ph.D., & Michael K. Tanenhaus, Ph.D.

Master of Arts, Brain and Cognitive Sciences
University of Rochester, Rochester, NY 2013

Bachelor of Arts, Cognitive Science, minor in Computer Science
Granted with general and departmental honors
Johns Hopkins University, Baltimore, MD 2008

Academic appointments

Postdoctoral Researcher
Vanderbilt University, Nashville, TN 2018–Present

Postdoctoral Researcher and Lecturer, Department of Psychology and Program in Linguistics
Princeton University, Princeton, NJ 2016–2018

Visiting researcher
Vanderbilt University, Nashville, TN 2017

Ongoing projects

Investigating lexical speech adaptation in adults and children. In collaboration with Duane Watson, Ph.D., Caoimhe Stack, and Israel Flores, at Vanderbilt University.

Investigating phonetic speaker adaptation in adults and the role of prior experience with cross-dialectal

and non-native interlocutors. In collaboration with Duane Watson, Ph.D., at Vanderbilt University.

Investigating the “bi-modal” speech comprehension advantage of individuals with a single cochlear implant. In collaboration with Duane Watson, Ph.D., at Vanderbilt University, and René Gifford, Ph.D., at Vanderbilt School of Medicine.

Understanding the effects of conversational expectations on speaker behavior and memory. In collaboration with Sarah Brown-Schmidt, Ph.D., at Vanderbilt University.

Manuscripts in prep

Buz, E. Speakers target hyper-articulation to avoid highly confusable speech: Modeling distributional changes in speech.

Manuscripts under review

Buz, E. Dynamic changes to pronunciation reflect potential causes of previous miscommunication. Under review at *Cognition*.

Publications

Buz, E., Buchwald, A., Fuchs, T., & Keshet, J. (in press). Assessing automatic phonetic annotation tools using unimpaired and impaired speech. *The International Journal of Speech-Language Pathology*.

Seyfarth, S., Buz, E., & Jaeger, T.F. 2016. Dynamic hyperarticulation of coda voicing contrasts. *Journal of the Acoustical Society of America*. doi: 10.1121/1.4942544

Buz, E., Tanenhaus, M.K., & Jaeger, T.F. 2016. Dynamically adapted context-specific hyper-articulation: Feedback from interlocutors affects speakers' subsequent pronunciations. *Journal of Memory and Language*. doi: 10.1016/j.jml.2015.12.009

Buz, E., & Jaeger, T.F. 2016. The (in)dependence of articulation and lexical planning during isolated word production. *Language, Cognition and Neuroscience*. doi: 10.1080/23273798.2015.1105984

Ledoux, K., Coderre, E., Bosley, L., Buz, E., Gangopadhyay, I., & Gordon, B. 2015. The concurrent use of three implicit measures (eye movements, pupillometry, and event-related potentials) to assess receptive vocabulary knowledge in normal adults. *Behavior Research Methods*. doi: 10.3758/s13428-015-0571-6

Handbook chapters

Jaeger, T.F., & Buz, E. 2016. Signal reduction and linguistic encoding. To appear in E.M. Fernández & H.S. Cairns (Eds.), *Handbook of Psycholinguistics*. Wiley-Blackwell. ([link_to_paper](#)).

Conference proceedings

Buz, E., Jaeger, T.F., & Tanenhaus, M.K. 2014. Contextual confusability leads to targeted hyperarticulation. To the 36th Annual Meeting of the Cognitive Science Society. Austin, TX: Cognitive Science Society. ([link_to_paper](#)).

Buz, E. & Jaeger, T.F. 2014. Effects of contextual confusability and interlocutor feedback on speaker phonetic production and production ease in a simulated-communication task. Poster at the 8th International Workshop on Language Production, Geneva, CH.

Buz, E. & Jaeger, T.F. 2014. Effects of interlocutor feedback on speaker phonetic production in a simulated-communication task. Poster at the 27th Annual CUNY Conference on Human Sentence Processing, Columbus, OH.

Buz, E. & Jaeger, T.F. 2013. Comparing measure of word confusability and their effect on speech production. Poster at the 26th Annual CUNY Conference on Human Sentence Processing, Columbia, SC.

Buz, E., Farmer, T., & Jaeger, T.F. 2012. Speakers are sensitive to prediction mismatches between two cues to grammatical category in spontaneous speech. Poster at the 7th International Workshop on Language Production, New York, NY.

Buz, E., & Jaeger, T.F. 2012. Word confusability and word durations. Poster at the 7th International Workshop on Language Production, New York, NY.

Buz, E., & Jaeger, T.F. 2012. Effects of phonological confusability on speech duration. Poster at the 25th Annual CUNY Conference on Human Sentence Processing, New York, NY.

Van Droof L.V., Ledoux K., Pickett E.J., Buz E., Billings N.M., & Gordon B. 2010. Advancing the measurement of receptive language in nonverbal individuals with autism. Poster at the 2010 International Meeting for Autism Research, Philadelphia, PA, May 20-22, 2010.

Ledoux K., Pickett E., Van Droof L.V., Buz E., Billings N.M., & Gordon B. 2010. Receptive vocabulary knowledge in individuals with autism as assessed by eye movements, pupillary dilation, and event-related potentials. Poster at the 2010 Neurobiology of Autism conference, San Diego, CA, November 12, 2010.

Ledoux, K., Pickett, E., Van Droof, L.V., Buz, E., Billings, N.M., & Gordon, B. 2009. Receptive vocabulary knowledge in individuals with autism as assessed by eye movements, pupillary dilation, and event-related potentials. Poster at the 2009 meeting of the Psychonomic Society, Boston, MA, November 21, 2009.

Buz, E. & Frank, R. 2008. Evaluating systematicity in neural networks through transformation combination. In Proceedings of the 30th Annual Meeting of the Cognitive Science Society. Austin, TX: Cognitive Science Society. ([link_to_paper](#)).

Honors, fellowships & funding

Ruth L. Kirschstein National Research Service Award

Individual Predoctoral Fellowship (F31HD083020)	2015-2016
Edward Peck Curtis Award for Excellence in Teaching by a Graduate Student	2015
27th Annual CUNY Conference on Human Sentence Processing Travel Award	2014
NSF Graduate Fellowship Honorable Mention	2011, 2012
Provost Fellowship, University of Rochester	2010
Hodson Trust Scholarship, Johns Hopkins University	2004-2008
Eagle Scout, Troop 188, Verdugo Hills Council	2004

Invited talks

Dynamic changes to pronunciation reflect potential causes of previous miscommunication: A talk in two parts. Department of Psychology, University of California, Davis.	2018
Achieving robust communication but adapting to communicative success. Department of Psychology and Human Development, Vanderbilt University.	2017
Achieving robust communication but adapting to communicative success. Department of Linguistics, University of Arizona.	2016

Conference talks

Investigating speech learning/adaptation using the internet. 173rd Meeting of the Acoustical Society of America and the 8th Forum Acusticum, Boston.	2017
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Teaching experience

Instruction and co-instruction

Princeton University, LIN/PSY/CGS, <i>Situated Language Usage</i>	Fall, 2016 & Spring, 2018
University of Rochester, BCS, <i>Language & Psycholinguistics</i> co-taught with T. Florian Jaeger, Ph.D.	Fall, 2014 & 2015
University of Rochester, BCS, <i>Independent study reading group</i> co-taught with Jenny M. Roche, Ph.D.	Spring, 2012

Teaching assistant

U of Rochester, BCS, <i>Cognition</i> taught by Andrea Hinds, Ph.D.	Spring, 2014
U of Rochester, BCS, <i>Language & Psycholinguistics</i> taught by T. Florian Jaeger, Ph.D.	Fall, 2011

Reviewing

Reviewer for the *Journal of the Acoustical Society of America*, *Cognition*, *Linguistics Vanguard*, *Language*, *Journal of Experimental Psychology: Learning, Memory, and Cognition*, the *Meetings of the Cognitive Science Society*, and the *Annual CUNY Conference on Human Sentence Processing*.