# EMILY CIBELLI

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## PERSONAL PROFILE

Speech scientist who uses quantitative and computational tools for research in speech, cognition, and language. Strong record of interdisciplinary collaboration with teams in psychology, cognitive science, neuroscience, and engineering. Research topics:

- Speech production, acoustics, and motor control in mental health disorders
- Neural and cognitive representation of words during spoken language processing
- Effects of language experience and cognitive capabilities on the perception of auditory and visual stimuli

## EMPLOYMENT EXPERIENCE

**Lecturer,** *ViaX Education* 2018 – present
- Develop college course materials and advise student research projects for online education company

**Postdoctoral research associate,** *Northwestern University* 2015 – present
- Run acoustic and statistical analyses of linguistic data; implement speech algorithms and processing pipelines; write scientific papers; review articles in scientific journals; secure grant funding; mentor undergraduate and graduate students

**Lecturer and undergraduate advisor,** *Northwestern University* 2015 – 2017
- Designed and taught college courses of 20-100 students in linguistics and cognitive science; mentor to 100 majors and minors in interdepartmental program; collaborated on administrative structure of program

**ESL test set developer,** *Duolingo* 2017
- Developed test items of varying complexity for English language teaching program

**Linguistic annotator and analyst,** *Powerset (Microsoft)* 2010
- Annotated large corpora of Internet-mined text for linguistic and semantic features; collaborated with remote team

## SKILLS AND EDUCATION

**Technical skills:** R, Praat, LaTeX, OpenSesame, Python, MatLab
**Analytic skills:** Statistical modeling, data visualization, acoustic analysis, neural data processing, phonetic transcription
**Languages:** English (native), Spanish (intermediate), Finnish (intermediate), Garifuna (fieldwork)
**Training:** Science communication and outreach, translational research for pediatric medicine
**Volunteering:** Lakeview Pantry (Jan. 2018-present); Chi Hack Night (Jan.-May 2017)

Ph.D. in Linguistics, University of California, Berkeley 2015
M.A. in Linguistics, University of California, Berkeley 2011
B.A. in Cognitive and Linguistic Sciences, Wellesley College 2009
Visiting student, National University of Ireland, Galway 2008

## RESEARCH HIGHLIGHTS

**Grant funding**: Secured $160,000 in national (NSF) and university funding to support research in data science and linguistics
**Ad-hoc reviewer for**: *Cognition, Cognitive Science Society, Second Language Research, Phonetica, Neuropsychologia*
**Selected publications:**

- Sichlinger, L., **Cibelli, E.,** Mittal, V., & Goldrick, M. (In press). Clinical correlates of aberrant conversational turn-taking in youth at clinical high-risk for psychosis. *Schizophrenia Research.*

- Goldrick, M., McClain, R., **Cibelli, E.,** Adi, Y., Gustafson, E., Moers, C., & Keshet, J. (In press). The influence of lexical selection disruptions on articulation. *Journal of Experimental Psychology: Learning, Memory, and Cognition.*

- Adi, Y., Keshet, J., **Cibelli, E.**, Gustafson, E., Clopper, C., and Goldrick, M. (2016). Automatic measurement of vowel duration via structured prediction. *Journal of the Acoustical Society of America* 140 (6), 4517-4527.

- **Cibelli, E.**\*, Xu, Y.\*, Austerweil, J., Griffiths, T., and Regier, T. (2016). The Sapir-Whorf hypothesis and probabilistic inference: Evidence from the domain of color. *PLOS ONE*, 11.7, e0158725. \*Co-first authors.

- **Cibelli, E.,** Leonard, M., Johnson, K., and Chang, E. (2015). The influence of lexical statistics on temporal lobe cortical dynamics during spoken word listening. *Brain and Language*, 147, 66-75.

- **Cibelli, E.** Aspects of articulatory and perceptual learning in novel phoneme acquisition. Dissertation, UC Berkeley.