Eric Wilbanks

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http://EricWilbanks.github.io
https://github.com/EricWilbanks/

Education

2018 - 2022 **Ph.D., Linguistics (*expected May 2022*)**; University of California, Berkeley
2016 - 2018 **M.A., Linguistics**; University of California, Berkeley
2014 - 2016 **M.A., English Linguistics**; North Carolina State University
2010 - 2014 **B.A., Spanish Language and Literature**; North Carolina State University

Relevant Work Experience

Domain Consultant *Research IT, UC Berkeley: Jan 2022 — Present*

- crafted solutions for researchers' high-performance-computing, parallelization, and research data management problems
- collaborated closely with a team from diverse technical and research backgrounds to understand users' workflows, needs, and constraints

Graduate Researcher *Linguistics, UC Berkeley: Aug 2016 — Present*

- planned and executed long-term original research study on speech perception with over 1,000 participants using Amazon Mechanical Turk and in-person laboratory experiments
- crafted a successful NSF research grant proposal ($8,000) to design and conduct remote behavioral experiments and laboratory eye-tracking studies
- performed data analysis and visualization in Python and R, implementing and evaluating hierarchical Bayesian and generalized additive statistical models
- developed Python package and trained speech models for command line automatic text-to-phoneme alignment for Spanish speech data (`https://fasealign.readthedocs.io`)
- directly mentored 11 undergraduate research assistants in experimental design, data visualization, and data analysis (R and Python)
- organized and led technical workshops on topics such as Twitter data analysis in Python, forced alignment for speech data, and clustering algorithms (`https://ericwilbanks.github.io/#workshops`)
- communicated experimental results to wider scientific audience through conference presentations, publications, and dissertation (`http://ericwilbanks.github.io/files/wilbanks_cv.pdf`)

Graduate Researcher *Linguistics, NCSU: Aug 2014 — Aug 2016*

- developed data-processing pipelines for a corpus of hundreds of hours of spontaneous sociolinguistic interviews and associated orthographic transcriptions
- conducted quantitative analyses of patterns of community-level sound change using Python and R, implementing hierarchical linear models
- designed and carried out phonetic laboratory studies of time-varying acoustic and video speech data

Skills

Languages English *(Native)*; Spanish *(Advanced)*

Technical R; Python; Git; Command Line; High performance computing; SLURM scheduler; Jupyter; LaTeX; HTK Speech Recognition; Praat

Experimental Experimental design; Acoustic analysis; Forced alignment; Eye-tracking