

# Annie Helms

Richmond, CA · [Email](#) · [GitHub](#) · [LinkedIn](#) · [Website](#)

## EDUCATION

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**Ph.D. in Romance Linguistics**, University of California, Berkeley, Dec 2023  
Graduate Certificate in Applied Data Science

**B.S. in Chemistry, Double Major in Spanish**, Baylor University, *Summa Cum Laude*, May 2018

## EXPERIENCE

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### Phi Beta Kappa Graduate Fellow - Dissertation Research (2023)

- Trained native speakers in remote data collection protocol to elicit speech and perceptual judgments in English, Spanish, and Catalan from 70 trilingual speakers
- Evaluated [acoustic cue-weightings of lexical stress](#) in English, Spanish, and Catalan across relative language dominance using Bayesian multilevel modeling in R and PCA in Python

### Editorial Assistant (2021-2023)

- Copy-edited 35 chapters for the *Cambridge Handbook of Bilingual Phonetics and Phonology*, evaluating for clarity of content and contributions to the field
- Compiled handbook index using domain knowledge expertise

### Coursework and research with ML and NLP (2021-2022)

- Utilized Git to collaborate with other students on projects in Python with social science applications using ML algorithms such as classifiers, neural networks, and clustering, and with libraries such as TensorFlow
- Analyzed [legislators' tweets using NLP in Python](#) through topic modeling and sentiment analysis with the goal of creating a classifier to predict party affiliation and [used regex and text analysis](#) to evaluate the role of discourse context frequency in historical phonological change in Spanish

### Sole instructor for courses at UC Berkeley (2019-2022)

- Taught and developed lesson plans for Spanish 1 (Fall 2019, Spring 2020), Spanish 2 (Fall 2020, Spring 2021), Spanish 3 (Fall 2021), Introduction to Hispanic Linguistics (Fall 2022)

## SELECTED PUBLICATIONS

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| 2023 | <a href="#">Medium shifting and intraspeaker variation in conversational interviews</a> . <i>Language Variation and Change</i> , 34(3), 305–329. Co-authored with Isaac Bleaman and Katie Cugno.       |
| 2022 | <a href="#">Influence of orthography in production and perception of /b/ in US Spanish</a> . <i>Journal of Experimental Phonetics</i> , 31, 9–29. Co-authored with Gabriella Licata and Rachel Weiher. |

## SKILLS

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Technical	Python, R, Git, Praat, L <sup>A</sup> T <sub>E</sub> X, ELAN, TANDEM-STRAIGHT, Qualtrics, HTML, PsychoPy
Industry	Audio processing, forced alignment with acoustic models, ML (Scikit-learn, TensorFlow), NLP (NLTK, SPaCy), data analysis, phonetic transcription, speaker normalization, research design, phonetics and phonology
Languages	English ( <i>Native</i> ), Spanish ( <i>Advanced</i> ), Catalan ( <i>Intermediate</i> ), French ( <i>Beginner</i> ), Latin ( <i>Reading</i> )