

Annie Helms

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

EDUCATION

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

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

EXPERIENCE

2018-*present* **Doctoral student researcher**

- Developed [Python scripts](#) to measure and visualize density-controlled vowel space areas from interview data
- Analyzed linguistic variation in spoken Spanish, English, and Catalan through phonetic analysis in Praat and mixed-effects regression models in R
- Created experimental stimuli in TANDEM-STRAIGHT to create a roving 4I2AFC discrimination task administered via Qualtrics to bilinguals in the Bay Area; developed and delivered a workshop on [generating continua in TANDEM-STRAIGHT](#)

2019-*present* **Sole instructor for courses at UC Berkeley**

- 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)

2021-2022 **Coursework in ML and NLP**

- Utilized Git to collaborate with other students on projects in Python with social science applications using ML algorithms such as classifiers, neural networks, trees and ensembles, and clustering
- Analyzed [tweets using NLP in Python](#) and carried out causal inference in R on a variety of social science data sets

SELECTED PUBLICATIONS

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|------|---|
| 2023 | Medium shifting and intraspeaker variation in conversational interviews. <i>Language Variation and Change, First View</i> , 1–25. Co-authored with Isaac Bleaman and Katie Cugno. doi: 10.1017/S0954394522000151 |
| 2022 | Influence of orthography in production and perception of /b/ in US Spanish. <i>Journal of Experimental Phonetics</i> , XXXI, 9–29. Co-authored with Gabriella Licata and Rachel Weiher. https://www.ub.edu/journalofexperimentalphonetics/pdf-articles/XXI-02-Helms.pdf |
| 2021 | Bidirectionality of language contact: Spanish and Catalan vowels. <i>Proceedings of the Linguistics Society of America</i> , 6(1), 159–172. doi: 10.3765/plsa.v6i1.4956 |

SKILLS

Technical	Python, R, Git, Praat, L ^A T _E X, ELAN, TANDEM-STRAIGHT, Qualtrics, HTML, PsychoPy
Industry	Acoustic analysis, forced alignment, ML, NLP, data analysis
Languages	English (<i>Native</i>), Spanish (<i>Advanced</i>), Catalan (<i>Intermediate</i>), French (<i>Beginner</i>), Latin (<i>Reading</i>)