

# Annie Helms

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

## EDUCATION

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<i>Expected</i> May 2024	<b>University of California, Berkeley</b> Ph.D. in Romance Linguistics Graduate Certificate in Applied Data Science
May 2018	<b>Baylor University</b> B.S. in Chemistry, Spanish; GPA: 4.0

## EXPERIENCE

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### 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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<i>Accepted</i>	Medium shifting and intraspeaker variation in conversational interviews. <i>Language Variation and Change</i> . Co-authored with Isaac Bleaman and Katie Cugno [email me for pdf].
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. <a href="http://ub.edu/journalofexperimentalphonetics/pdf-articles/XXXI-02-Helms.pdf">ub.edu/journalofexperimentalphonetics/pdf-articles/XXXI-02-Helms.pdf</a>
2021	Bidirectionality of language contact: Spanish and Catalan vowels. <i>Proceedings of the Linguistics Society of America</i> 6(1): 159-172. doi: <a href="https://doi.org/10.3765/plsa.v6i1.4956">10.3765/plsa.v6i1.4956</a> .

## 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	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> )