



# NICOLE DODD

PhD Candidate, Linguistics

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## Education

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### University of California, Davis

*PhD in Linguistics*

Davis, CA

*Sept 2019 - Jun 2024*

- **Advisor:** Dr. Emily Morgan
- **LSA Summer Institute 2019:** Linguistics in the Digital Era

### University of California, Santa Barbara

*BA in Linguistics and Global Studies*

Santa Barbara, CA

*Sept 2012 - Dec 2016*

- *Magna Cum Laude*, Distinction in Major
- **Honors Thesis:** “Language Contact Between Andalusian Arabic and Romance: The Orientalizing Suffix”

## Research Interests

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**Computational Psycholinguistics:** human processing of natural (e.g., Arabic) and programming (e.g., Java) languages

**Human-Computer Interaction:** human perceptions of voice artificial intelligence (voice-AI; e.g., Alexa)

**Under-represented Languages:** research with under-represented or low-resource languages

## Skills

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**Programming:** Python (pandas, numpy, scipy, matplotlib, nltk); R (tidyverse, ggplot2, brms); git and GitHub; Windows command line

**Experiment design & analysis:** Qualtrics; Ibex (online psycholinguistic experiments); SR Research Eyelink 1000, Experiment Builder, Data Viewer (eye tracking); Praat

**Statistical methods:** Bayesian mixed effects models; linear and logistic regression; chi-squared analysis; log likelihood ratio; KL divergence; descriptive statistics

**Languages:** Spanish (full professional proficiency), Standard Arabic (intermediate)

## Research Experience

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### UC Davis Departments of Linguistics & Computer Science

*Graduate Student Researcher, Department of Computer Science*

Davis, CA

*Jun 2022 - present*

- **Project:** Human Processing of Programming Languages
- **Advisors:** Dr. Emily Morgan, Dr. Prem Devanbu

*Lab Manager, Morgan Computational Psycholinguistics Lab*

*Sept 2021 - present*

- Developed standardized lab procedures, including error prevention practices, quality control protocols, and data pre-processing pipelines
- Designed experimental rooms and graduate student work spaces, and managed installation of materials
- Managed the [lab website](#) to advertise lab research and communicate lab news

*Graduate Student Researcher, Department of Linguistics*

*Jul - Sept 2020*

- **Project:** Spanish Corpus Analysis
- **Advisor:** Dr. Raul Aranovich
- Constructed an OCR post-processing model to correct OCR errors from 19th century Spanish documents
- Developed a weighted Levenshtein distance algorithm to evaluate probabilistic word matches
- Conducted a corpus analysis of Iberian and American Spanish across various written domains

## Teaching Experience

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### UC Davis Department of Linguistics

*Teaching Assistant*

Davis, CA

*Sept 2019 - present*

- **LIN 001:** Introduction to Linguistics (Fall 2019; Winter 2020; Spring 2020; Fall 2023)
- **LIN 177:** Computational Linguistics (Spring 2021; Summer 2023)

### UC Davis Department of Computer Science

*Teaching Assistant*

Davis, CA

*Sept 2020 - Mar 2021*

- **ECS 188:** Ethics in the Age of Technology (Fall 2020; Winter 2021)

## Publications

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**Dodd, N.,** Cohn, M., & Zellou, G. (2023). Comparing alignment toward American, British, and Indian English text-to-speech (TTS) voices: influence of social attitudes and talker guise. *Frontiers in Computer Science* 5:1204211. <https://doi.org/10.3389/fcomp.2023.1204211>

**Dodd, N.,** & Morgan, E. (2022). Expectations and Noisy-Channel Processing of Relative Clauses in Arabic. In *Proceedings of the Annual Meeting of the Cognitive Science Society* 44(44). <https://escholarship.org/uc/item/51d7m5np>

## Posters & Presentations

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**Dodd, N.,** & Morgan, E. (2023, January). Expectations and Noisy-Channel Processing of Relative Clauses in Standard Arabic. Oral presentation at: *California Annual Meeting on Psycholinguistics (CAMP[5])*. Los Angeles, CA.

**Dodd, N.,** & Morgan, E. (2022, September). Expectations and Noisy-Channel Processing of Relative Clauses in Standard Arabic. Poster presented at: *Architectures and Mechanisms for Language Processing (AMLaP)*. York, England, UK.

**Dodd, N.,** & Morgan, E. (2022, March). Expectations and Noisy-Channel Processing of Relative Clauses in Standard Arabic. Poster presented at: *Human Sentence Processing (HSP)*. Santa Cruz, CA.

## Awards & Honors

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| <b>NSF Doctoral Dissertation Research Improvement Grant</b>                     | <i>Dec 2022</i> |
| <b>Suad Joseph Grant for Research</b> , UC Davis Middle East/South Asia Studies | <i>Jun 2022</i> |
| <b>Steven G. Lapointe Award</b> , UC Davis Department of Linguistics            | <i>Jun 2022</i> |
| <b>Data Scholarship</b> , UPenn Linguistic Data Consortium (LDC)                | <i>Oct 2020</i> |

## Leadership & Service

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| <b>Reviewer</b> , California Meeting on Psycholinguistics (CAMP)                | <i>2021, 2022, 2023</i>     |
| <b>Fellow</b> , UCD Leaders for the Future                                      | <i>Sept 2022 - Jun 2023</i> |
| <b>Reviewer</b> , UCD Language Symposium  | <i>2022</i>                 |
| <b>MA Representative</b> , UCD Linguistics Graduate Student Association (LGSA)  | <i>Sept 2021 - Jun 2022</i> |
| <b>Mentor</b> , UCD Undergraduate Research Center MMP-HArCSS                    | <i>Jan 2021 - Jun 2021</i>  |
| <b>GSA Representative</b> , UCD Linguistics Graduate Student Association (LGSA) | <i>Jul 2020 - Jun 2021</i>  |