

# Iñigo Parra

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🌐 <https://iparramartin.github.io>

## Research Areas & Interests

Computational linguistics, NLP, language models and the brain, speech processing, LM explainability.

## Education

- exp. 2029 **Ph.D. Linguistics (DE Cognitive Science)**, UC Berkeley
- Computational Linguistics, Speech and Computation, Deep Learning, Cognitive Science
- 2022–2024 **M.A. Romance Languages: Spanish Linguistics**, The University of Alabama
- 2016–2022 **B.A. in Modern Languages, Specialty in English Studies**, Universidad de Deusto
- Senior Thesis: “*Language and Opinion Online: Beliefs on COVID-19 and Socio-political Implications*”

### NON-DEGREE STUDIES

- 2023 **Seminar On Introduction To Language Technology Applications**, IXA Group Universidad del País Vasco - Euskal Herriko Unibertsitatea

## Grants & Funding

- 2024 LatinX AI. NeurIPS 2024 Grant
- 2023–2024 Robert and Ruby Allbritton and María Mantiñán Endowed Scholarship. National Alumni Association of The University of Alabama (x2)
- 2023–2024 International Conference Funding. The University of Alabama Graduate School
- 2023 DHADT Conference Funding. Vanderbilt University

## Publications

### PROCEEDINGS

- 2024 Parra, Iñigo (2024). Morphological Typology in BPE Subword Productivity and Language Modeling. *Latinx in AI Research workshop @ Neural Information Processing Systems 2024 (NeurIPS 2024)*, December 10th, Vancouver.
- 2024 Parra, Iñigo (2024). Noise Be Gone: Does Speech Enhancement Distort Linguistic Nuances?. *Field Matters @ The 62nd Annual Meeting of the Association for Computational Linguistics (ACL 2024)*, August 11th-16th, Bangkok.
- 2024 Parra, Iñigo (2024). UnMASKed: Quantifying Gender Biases in Masked Language Models through Linguistically Informed Job Market Prompts. *European Chapter of the Association of Computational Linguistics (EACL) ERW*, February 22nd, Malta.
- 2023 Parra, Iñigo (2023). Do You Speak Basquenglish? Assessing Low-resource Multilingual Proficiency of Pretrained Language Models. *EMNLP, Proceedings of the The Seventh Widening NLP Workshop (WiNLP)*, December 6th, Singapore. Koronkiewicz, Bryan; VanMeter, R.; Parra, Iñigo (2023). Asymmetrical p-stranding: Acceptability Data from Spanish-English Code-switching.

### WORK IN PROGRESS

- review Parra, Iñigo; Bharathi, Mano; Kumar, Mayank; Kumar, Pushpa; Mishra, Priyadarsi. (2025). Adaptive Compute Efficient Learning via Conceptual-Criticality. @ *AAAI 2025*.
- review Parra, Iñigo (2025). Neural Correlates of Language Models Are Specific to Human Language. @ *NeurIPS 2025*.
- in prep. Parra, Iñigo (2025). Searching Phonology in Sparse Features.
- in prep. Parra, Iñigo (2025). Natural Order: Cross-lingual Limits of Transformer Language Acquisition.

## Presentations

### CONFERENCE TALKS

- 2024 Parra, Iñigo (2024). Morphological Typology in BPE Subword Productivity and Language Modeling. *Latinx in AI Research workshop @ Neural Information Processing Systems 2024 (NeurIPS 2024)*, December 10th, Vancouver.
- 2024 Parra, Iñigo (2024). Noise Be Gone: Does Speech Enhancement Distort Linguistic Nuances?. *Field Matters @ ACL 2024*, August 11th-16th, Bangkok.
- 2024 Parra, Iñigo (2024). UnMASKed: Quantifying Gender Biases in Masked Language Models through Linguistically Informed Job Market Prompts. *European Chapter of the Association of Computational Linguistics (EACL) ERW*, February 22nd, Malta.
- 2023 Parra, Iñigo. Do You Speak Basquenglish? Assessing Low-resource Multilingual Proficiency of Pretrained Language Models. *EMNLP, The Seventh Widening NLP Workshop (WiNLP)*, November 24th. Singapore.
- 2023 Parra, Iñigo. The Dark Side of AI: Identifying Extremism and Battling Political Polariza-

2022 tion. Digital Humanities Against Dark Times, April 13th. Nashville, Tennessee.  
 Parra, Iñigo. Computational Linguistics and AI: Do Machines Follow Grammar Rules?  
 University of Alabama Language Conference, February 14th. Tuscaloosa, Alabama.

#### INVITED TALKS

2023 Parra, Iñigo. Challenges and Opportunities for Low & Mid Resource Languages. Cohere  
 for AI, December 15th.

## Projects and Lab Work

2024-present Dr. Gašper Beguš (PI), Iñigo Parra (RA). Speech and Computation Lab. Berkeley, CA.  
 2023-present Dr. Sara Hooker (PI), Iñigo Parra (Basque Language Ambassador and Top Contributor).  
 AYA Cohere for AI. Toronto, Canada.  
 2022-2024 Iñigo Parra (PI). The Visibility Project.  
 2022-2024 Dr. Erin O'Rourke, Dr. Bryan Koronkiewicz, Dr. Laura Rubio, Dr. Alicia Cipria, Iñigo  
 Parra (Member) LingUA Lab.

## Experience

#### CONSULTANT

2024-present D-Lab Consultant Fellow (NLP, Data Analysis, Deep Learning), UC Berkeley

#### TEACHING ASSISTANT

Spring 2023 Spanish 101, The University of Alabama

#### INSTRUCTOR/GSI

Fall 2025 Quantitative Methods in Linguistics, UC Berkeley

Spring 2024 Spanish 201, The University of Alabama

Fall 2023 Spanish 101, The University of Alabama

2022-2023 Department of Spanish Undergraduate Mentor, The University of Alabama

#### WORKSHOPS PRESENTED

Iñigo Parra. Introduction to Basque. SP 502, October 23rd, Tuscaloosa, AL.

Iñigo Parra. R for Data Analysis. LingUA Lab, September 19th, Tuscaloosa, AL.

Iñigo Parra. Introduction to Basque. SP 502, October 23rd, Tuscaloosa, AL.

## Professional and Academic Service

- 2023 Graduate Student Association (GSA) Delegate, The University of Alabama
- 2023 Graduate Student Association (GSA) Academic Program Member, The University of Alabama
- 2023 Graduate Student Representative at the Modern Languages and Classics (MLC) Faculty, The University of Alabama
- 2023 Mentor, LSA Linguistics Mentoring Alliance

### REVIEWING

- 2025 *CogInterp @ NeurIPS 2025*, San Diego, CA
- 2025 *DBM @ NeurIPS 2025*, San Diego, CA
- 2025 *UniReps @ NeurIPS 2025*, San Diego, CA
- 2024 *CoNLL @ EMNLP 2024*, Miami, FL
- 2024 *The 11th Inter-Varietal Applied Corpus Studies (IVACS)*, University of Cambridge, UK
- 2023 *EMNLP WiNLP 2023*, Singapore

## Skills

### COMPUTING

Python (PyTorch, Tensorflow, Hugging Face, Scikit-Learn, NLTK, Pandas, NumPy)  
R (ggplot2, tidyverse, praatpicture, topicmodels)  
HTML & CSS  
LaTeX  
Praat

### LANGUAGES

Spanish (native)  
Basque (native)  
English (advanced)  
German (elementary)  
French (reading)  
Latin (reading)

## Memberships

Linguistic Society of America (LSA)