

**DAVO ACEVEDO-CARDONA**  
**AI/ML Engineer**  
**University of Arizona**  
**Tucson, Arizona**  
**Phone: +1 (520) 812-9448**  
[davoacevedo@arizona.edu](mailto:davoacevedo@arizona.edu)  
[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## Chronology of Education

University of Arizona, Tucson, AZ  
**Ph.D. in Hispanic Linguistics** (*Accepted*)  
*Starting Fall 2026*

University of Arizona, Tucson, AZ  
**Master of Science in Human Language Technology**  
*Expected: May 2026 | GPA: 4.0*

Instituto Caro y Cuervo, Colombia  
**Diploma in Corpus and Computational Linguistics**  
*October 2023*

Instituto Caro y Cuervo, Colombia  
**Diploma in Pedagogy and Didactics for Teaching Spanish as a Foreign Language**  
*(120 hours; coursework in phonetics, grammar, culture, and pedagogy)*  
*November 2022*

Universidad Tecnológica de Pereira, Colombia  
**Bachelor of Science in Electrical Engineering (EUR-ACE Accredited Program)**  
*November 2022 | GPA: 3.875*

## Areas of Expertise

- Experimental Psycholinguistics (Eye-tracking, Self-Paced Listening).
- Natural Language Processing (NLP) & Corpus Linguistics.
- Data Pipeline Development & Large-Scale Text Processing.
- Signal Processing (EEG, Cognitive Data).
- Statistical Modeling & Machine Learning.
- Bilingualism, Translanguaging, and Spanish Linguistics.
- VoIP Servers.

## Chronology of Employment

### NLP & Data Science Intern

*Goods Unite Us, Inc. | Oct 2025 – Mar 2026*

- Developed end-to-end data pipelines to extract, clean, and analyze large-scale structured and unstructured datasets (SEC filings, web data).
- Applied NLP techniques for entity extraction, normalization, and data quality improvement.
- Queried and managed data in Snowflake and Firebase; automated workflows using Bash/Linux.

- Collaborated with cross-functional teams to translate analytical outputs into actionable insights.

### **Graduate Associate in Teaching**

*University of Arizona – Department of Spanish & Portuguese* | Aug 2024 – Present

- Designed and delivered undergraduate Spanish instruction grounded in Task-Based Language Teaching (TBLT) and communicative approaches.
- Integrated corpus-based and computational tools into language instruction.
- Developed technology-enhanced instructional materials using authentic linguistic data.
- Facilitated student-centered, interaction-driven classroom environments.

### **Graduate Research Assistant**

*University of Arizona – College of Behavioral Sciences* | Aug 2022 – Present

- Built multilingual annotated corpora (10,000+ samples) and preprocessing pipelines in Python and R.
- Conducted quantitative analyses using statistical and machine learning methods.
- Developed automated tools for morphosyntactic annotation and linguistic feature extraction.
- Presented findings at national and regional conferences.

### **Chief Technology Officer (CTO)**

*KosmosTIC, Colombia* | Jan 2023 – Aug 2024

- Managed VOIP server infrastructure and database systems.
- Implemented automated monitoring and troubleshooting pipelines.
- Improved system reliability and operational efficiency.

### **Honors & Awards**

Institute for LGBT Studies Research Grant (team member, PI: J. Henao-Muñoz), University of Arizona — \$11,745

- Project: *Building a Repository for Inclusive Spanish Language*

### **Other Scholarship (Research Projects)**

Self-Paced Listening Experiment with Integrated Bilingual Language Profiling in Quechua-Spanish

*University of Arizona* | 2025

- Developed a PsychoPy-based experimental paradigm for auditory sentence processing.
- Implemented millisecond-precision timing, response logging, and comprehension measures.
- Prepared datasets for statistical analysis and mixed-effects modeling in Python.

EEG Signal Processing for Emotion Recognition and Biomarker Extraction

*Universidad Tecnológica de Pereira* | 2021 – 2022

- Designed an end-to-end EEG preprocessing pipeline using MATLAB and EEGLAB.
- Applied filtering, Independent Component Analysis (ICA), and Blind Source Separation (BSS) for artifact removal.
- Processed multi-participant EEG datasets (~70+ participants) during emotion recognition tasks.
- Extracted features and supported classification using machine learning models (KNN, Random Forest, Neural Networks).
- Improved signal quality and enabled downstream analysis of cognitive biomarkers.

## Work in Progress

Pupillometry Experiment (Eye-Tracking & Cognitive Load) (with T. Leal)  
CoVIBA Corpus Project (Corpus de la Frontera) (with K. Christoffersen & I. Calafate)

## Conferences/Scholarly Presentations

### *Conference Presentations:*

Leal, T., Krapp López, C., Rojas Barreda, H., Papag Cruz, M., Urrea Salazar, F. & **Acevedo-Cardona, D. A. (2026).**

Bilingual Minds in Action: Research and Community Engagement in the Arizona Applied Psycholinguistics Lab.

3rd Annual Bilingual Initiatives Symposium, University of Arizona.

Henao-Muñoz, J., Guzmán Hernández, A., Torres Cirina, D., Kim, J., **Acevedo-Cardona, D. A.**, & Negretto, G. (2024).

*Building a Repository for Inclusive Spanish Language to Develop Resources for Best Practices and Pedagogical Implementation.*

AAAL Conference, Houston, TX

Henao-Muñoz, J., Torres Cirina, D., & **Acevedo-Cardona, D. A.** (2023).

*From/For Diversity: Building a Repository for Inclusive Spanish Language.*

AZ HSI Consortium, University of Arizona

### Peer Review Activity

Reviewer (invited)

Paedagogia: Teacher Action Research Journal (2025):

Reviewed manuscript: “*Connecting Languages, Growing Voices: Using*

*Translanguaging to Support Spanish Oracy in a Bilingual Third Grade Classroom*”

## Certifications & Professional Development

- CITI Human Research Certification (2025)
- Humanities Recruitment Workshop, *University of Arizona* (2025)
- Academic English for Young Researchers, *Universidad Tecnológica de Pereira* (40 hours, 2022)
- Research Methods Course, *Fundación Universitaria del Área Andina* (48 hours, 2022)
- IBM Data Science Professional Certificate (2022)
  - Analyzing Data With Excel: [Certificate ID](#)
  - R Programming Basics for Data Science: [Certificate ID](#)
  - Data Visualization and Building Dashboards with Excel and Cognos: [Certificate ID](#)
  - SQL For Data Science: [Certificate ID](#)
  - Python Basics for Data Science: [Certificate ID](#)
  - Python for Data Science Project: [Certificate ID](#)

## Technical Skills

- *Programming & Machine Learning*
  - Python (pandas, NumPy, scikit-learn, spaCy, PyTorch)

- R (tidyverse, statistical modeling)
- MATLAB (signal processing, EEG analysis)
- *Data & Systems*
  - SQL, Snowflake, Firebase
  - Linux/Bash, Git/GitHub
- *Experimental & Research Tools*
  - PsychoPy, EEGLAB, EyeLink
- *Other Programming Languages*
  - Perl
  - Prolog

## **Teaching/Mentoring**

- *Courses*
  - SPAN 101 – Introductory Spanish I, Graduate Teaching Assistant, University of Arizona
  - SPAN 102 – Introductory Spanish II, Graduate Teaching Assistant, University of Arizona
  - IE 763 – Signal Analysis, Teaching Assistant, Universidad Tecnológica de Pereira
- *Lectures & Instructional Design*
  - Designed communicative classroom activities aligned with Critical Language Awareness (CLA).
  - Developed lesson plans and materials focused on cultural and linguistic contexts.
  - Led interactive discussion-based sessions to promote oral proficiency.
  - Integrated digital tools (Google Slides, Padlet) for collaborative learning.