Erwin **Lares**

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A linguist bringing data science tools and computational resources to researchers at the University of Wisconsin-Madison

Education

Ph.D. in Hispanic Linguistics
UNIVERSITY OF WISCONSIN-MADISON

Madison, WI
2022

- For my doctoral thesis, I used quantitative methods to show that native speakers reliably produce idiomatic sentences with narrower F0 ranges and shorter durations than their literal counterparts. I also showed that the aspectual structure of the idiomatic event seems to be conditioned by the aspectual structure of the literal event.

Experience

Research Cyberinfrastructure Consultant
UW-MADISON OFFICE OF RESEARCH CYBERINFRASTRUCTURE

Madison, WI
May 2022 - Present

- Lead the migration of the data science platform to servers on premise which includes meeting and negotiating with the vendor representatives, collaborating with the Linux Team to properly set up VM configurations, and managing the data science applications themselves.
- Collaborate with researchers to adopt data science and computational strategies to improve their workflows.
- Team up with other units on campus in order to pool resources and reduce pain points for researchers using these computational resources.

Graduate Project Assistant
UW-MADISON OFFICE OF RESEARCH CYBERINFRASTRUCTURE

Madison, WI
May 2021 - May 2022

- Engineered a solution for the Limnology Department by modifying their R workflows to access their data through a PostGres database.
- Assisted several researchers with issues regarding data wrangling, shiny apps publication, and data storage and management.
- Participated in campus-wide events to promote data science tools.
- Analyzed 8 years of longitudinal data in order to produce qualitative and quantitative insights leading to improvements in the Electronic Lab Notebook service.
- Produced hundreds of visualizations to better convey findings and trends contained in the data.

Projects

VOT Study of UW-Madison "La Residencia" students
UW-MADISON DEPARTMENT OF SPANISH AND PORTUGUESE

August 2021 - Present

- Collaborate with Dr. Rajiv Rao to analyze and visualize the data produced by a longitudinal project which monitored voice onset time (VOT) development of students living in a domestic language immersion program.
- Carry out the quantitative analysis of the data gathered by this project. The results will be published in a peer-reviewed journal.

Invited Teaching

Data Wrangling
THE CARPENTRIES

Madison, WI
Fall 2021

Publications

A longitudinal Examination of the Sound System of Students in a Heritage Spanish Class
UNIVERSITY OF WISCONSIN-MADISON

Madison, WI
TBP

- In collaboration with Rajiv Rao and Carlos Rojas

Presentations

IT Professionals Conference
Keep your Class Presentations Updated Painlessly with Rmarkdown

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UW-Madison, WI
June 2022

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Certifications

Plain Language Certificate
UW-Madison Cultural Linguistic Services

Grants and Awards

Summer Dissertation Write-up Award
UW-Madison Faculty Council of The Department of Spanish and Portuguese

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Madison, WI
2021

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Administrative Services

Co-chaired the organizing committee for the 52nd Linguistic Symposium of Romance Languages International Conference
Linguistic Symposium of Romance Languages 52

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Madison, WI
2022

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Skills

Human Languages
Spanish, English, Italian, Portuguese, Japanese, Yucatec Mayan

Computer Languages
R, LaTeX, Python, HTML, CSS, Bash, SQL, Markdown, YAML, GIT

Additional Technical Skills
Jupyter Labs + Notebooks, AWS, Canvas LMS, BlackBoard LMS, Praat, Microsoft Office

Additional Soft Skills
Aikidoist 3rd degree black belt, dog trainer, ceramicist

Affiliations

Member of the Linguistic Society of America