

# Agustin E. Lorenzo

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## EDUCATION

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**University of Georgia** | Athens, GA

*M.S. Artificial Intelligence*

GPA: 3.90

*B.A. Cognitive Science, Minor in Statistics*

GPA: 3.75, *magna cum laude* with Honors

## EXPERIENCE

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**Meta** | Remote

**September 2025 - Present**

*Data Labeling Analyst II (Contract)*

- Evaluate 200+ query results daily to provide quality training data for a search engine foundation model
- Perform audits to provide labeling metrics and insights

**University of Georgia Department of Linguistics** | Athens, GA

**August 2024 - September 2025**

*Graduate Research Assistant*

- Built a multilingual spoken corpus web interface on Railway using the open-source Tsakorpus platform, enabling researchers to access and explore spoken data across multiple languages
- Converted annotated interview recordings into a searchable JSON format indexed with Elasticsearch
- Collaborated with linguists to design corpus metadata and search features for documentation of endangered languages
- Utilized Python to manage data and build dictionaries automatically from annotated interviews

**Georgia Tech Research Institute** | Atlanta, GA

**January 2024 - August 2024**

*Large Language Model Student Assistant*

- Created a pipeline that utilized LLMs and HPC for synthetic dataset generation with  $\approx 1.5$  million instances
- Trained multi-label, open-domain classifiers in PyTorch on the synthetic dataset, enabling detection of many categories
- Reduced downstream safety incidents by using the classifier to flag potential risk and abuse

## SELECTED PROJECTS

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**Wordnav.net**

**September 2025 - Present**

*Personal project, Website and iOS App*

- Constructed a directed graph of word relationships from a curated dataset of two-word phrases
- Implemented DFS algorithm with randomized traversal to generate unique word chains
- Designed and deployed an interactive browser-based game using a frontend framework in Python
- Building a native iOS implementation of Wordnav in Swift/SwiftUI

**Recognizing Emotions from Brain Data with Vision Transformers**

**June 2024 - September 2025**

*Master's Thesis*

- Trained vision transformer models on continuous wavelet transform features extracted from public and private data
- Developed novel method to facilitate training across multiple datasets with varying sets of EEG channels
- Utilized Hilbert curves to ensure spatial continuity between electrodes and similar channel ordering between datasets
- Identified relationships between clipping private data instances, iteratively unfreezing transformer layers, and model performance

## SKILLS

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**Spoken Languages:** English, Spanish

**Programming Languages:** Python, Java, C, C++, R, L<sup>A</sup>T<sub>E</sub>X

**Frameworks & Libraries:** PyTorch, TensorFlow, scikit-learn, ONNX

**Operating Systems:** Linux, Mac OS, Windows

**Other:** Artificial Intelligence, Machine Learning, Computational Linguistics, Evolutionary Computing, Generative AI, Statistics, Computational Neuroscience, Affective Computing, Large Language Models (LLMs), Transformers, Git, Natural Language Processing (NLP), High Performance Computing (HPC)

## PREPRINTS

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S. Shankar et al., "Bridging brains and machines: A unified frontier in neuroscience, artificial intelligence, and neuromorphic systems," 2025, arXiv: 2507.10722

## CONFERENCE PRESENTATIONS

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Langston, K., Renwick, M., Vrzić, Z., Hale, J., Jones, A., **Lorenzo, A.**, & Dual, M. (2025, March 6 - 9). *Creating a multilingual spoken corpus for language documentation and research: Tools and workflows for low-resource languages* [Paper presentation]. 9th International Conference on Language Documentation and Conservation, Honolulu, HI, United States.

Farkas, A.H., Gehr, M.C., Jia, H., Chand, A., Bennett, K., **Lorenzo, A. E.**, & Sabatinelli, D. (2023). The emotional impact of scenes and video: Effect sizes of ERP, ssVEP, and self-report measures [Poster abstract]. *Psychophysiology*, 60, (S47). doi: 10.1111/psyp.14417

**Lorenzo, A. E.**, Guice, K. B., & Clark, M. A. (2022, April 4 - 5). *Comparing the internal and external factors that drive workaholism* [Poster session]. Center for Undergraduate Research Opportunities (CURO) Symposium, Athens, GA, United States.

**Lorenzo, A. E.**, Guice, K. B., & Clark, M. A. (2022, January 21 - 23). *Comparing the internal and external factors that drive workaholism* [Poster session]. Harvard National Collegiate Research Conference, Cambridge, MA, United States.

## TECHNICAL REPORTS

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**Lorenzo, A. E.**, & Sabatinelli, D. (2024). A modern hardware and software system to elicit the acoustic startle reflex in humans. GEN Lab Technical report, Department of Psychology, University of Georgia.

**Lorenzo, A. E.**, Iyer, A., Johnson, B., Kerce, C., & Gonzalez, M. (2024). Building classifiers for private data using synthetic data generation. ARCAID Technical report, Information and Communications Laboratory, Georgia Tech Research Institute.

## HONORS & AWARDS

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### Lloyd Cloer Endowment Award

November 2024

Awarded by the University of Georgia's Institute for Artificial Intelligence from the Benjamin Lloyd Cloer Endowment; required a submission of CV and description of current research

### Elkay Scholarship

April 2022

Selected on the basis of academic record, demonstrated leadership and participation in school and community activities, honors, work experience, statement of education and career goals and objectives, unusual personal or family circumstances, and an online recommendation.

### Zell Miller Scholarship

August 2020 - May 2024

Merit-based scholarship for Georgia residents who have demonstrated academic achievement; requires 3.70 cumulative GPA

### UGA Center for Undergraduate Research Opportunities Honors Scholar

August 2020 - May 2024

Selected as 1 of 9 incoming first-year students to join four-year undergraduate research program providing support for faculty-mentored research, professional development, and participation in conferences and colloquia

## EXTRACURRICULAR & VOLUNTEER

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AI Society at Terry  
Undergraduate Neuroscience Organization  
UGArden

February 2025 - May 2025  
August 2022 - May 2024  
August 2022 - May 2023