

Agustin E. Lorenzo

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EDUCATION

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

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 ≈ 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

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

Spoken Languages: English, Spanish

Programming Languages: Python, Java, C, C++, R, \LaTeX

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

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

CONFERENCE PRESENTATIONS

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

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

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

AI Society at Terry

February 2025 - May 2025

Undergraduate Neuroscience Organization

August 2022 - May 2024

UGArden

August 2022 - May 2023