DANIELA RAMOS OJEDA

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Graduating May 2025**
Bachelor of Science, Computer Science **GPA:** 3.730
Awards: Dean's List (Fall 2021, Spring 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024)
Relevant Courses: Artificial Intelligence*,* Computational Linguistics, Machine Learning, Natural Language Processing, Phonetics and Phonology, Design and Analysis of Algorithms, Probability and Statistics, Computer Programming and Organization, Introduction to Language Endangerment and Revitalization, Functional Programming, Object Oriented Programming and Data Structures, Discrete Structures, Introduction to Linguistics, Language and Information, Linear Algebra for Engineers, Introduction to Computing Using Python

RELEVANT EXPERIENCE or ENGINEERING EXPERIENCE

Social Dynamics Lab Group, *Research Assistant* **September 2024 - Present**

- Designed and developed experiments on Large Language Models to test hypotheses about the existence of biases in Large Language Models.
- Utilized OpenAI API and Llama API within experiment runs to test these hypotheses and ran various scripts to visualize and analyze results.
- Closely collaborated with researchers in the field of sociology for dataset collection and analysis.

First Languages AI Realities - MILA/Indigigenius, *Machine Learning Intern* **June 2024 - Aug 2024**

- Contributed to the development of an **Automatic Speech Recognition (ASR)** system, focusing on improving model accuracy and performance through advanced machine learning techniques.
- Conducted extensive **dataset processing** to enhance data quality, which involved filtering noise, normalizing audio files, and labeling datasets effectively.
- Collaborated with cross-functional teams in code reviews and presenting findings, enhancing project outcomes and exploring how they can be integrated into language revitalization programs within communities.

Cornell University Sustainable Design - Alternative Recycling Cornell, Ithaca, NY, *Full Stack Development Lead*
September 2022 - Present

- Led the development of a **marketplace application** aimed at promoting a circular economy on campus, facilitating the buying, selling, and trading of used goods among students.
- Maintain and update a responsive mobile application using **React Native**, providing a seamless **UI/UX** across iOS platforms, as well as a web application version using **React**.
- Integrated **Firebase** for backend services, implementing real-time data synchronization, user authentication, and cloud storage for product listings and transactions.

Cornell Linguistics - Remote, *Full Stack Software Developer* **June 2023 - August 2023**

- Developed a web interface fit to allow for uploads of data sets and features and their filtering for computational linguistics tasks.
- Designed web interface and implemented dynamic features using **JavaScript, CSS, HTML,** and **Firebase**.

Indigenous in AI - NeurIPS **December 12, 2024**

- Presented the history and current state of machine learning and ASR approaches to Indigenous language revitalization at the 2024 annual Conference on Neural Information Processing Systems.

WORK EXPERIENCE

Cornell University Engineering Learning Initiatives - Ithaca, NY, *AEW Facilitator (6 hours/week)* **August 2022-December 2023**

- Created practice exercises and planned lessons for a support class for Functional Programming and Chemistry.
- Led a 2 hour weekly class of around 20 students encouraging peer lead review of material, and answering conceptual questions about the material presented in the regular class, such as Ocaml basics, modular programming, data structures, memoization, and testing.

SPECIALIZED SKILLS

Programming Languages and Programs: Java, Python, OCaml, JavaScript, React Native, PyTorch, NumPy, CSS, HTML, C, Firebase, Git, OpenAI API, Llama API, Unix
Skills: Communication, Teamwork, Adaptability, Problem Solving, Flexibility **Foreign Languages**: Spanish (fluent)