Jorge Jaime-Rivera

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WORK EXPERIENCE

The Morton Arboretum Center for Tree Science   **Lisle, Illinois**
Research Aide   September 2021 – November 2022

- Created and curated a database of root traits by harvesting hundreds of native prairie plants and measuring their morphological and chemical traits
- Executed and documented data processing, visualization, and analysis in R to generate time-sensitive data interpretation and analyses
- Contributed and presented research findings at an international academic conference

The Morton Arboretum Center for Tree Science   **Lisle, Illinois**
Student Research Affiliate   July 2020 – September 2021

- Created training data using the citizen-science platform Zooniverse to identify and annotate herbarium images of Oak leaves
- Built a machine learning model that detects morphological traits of Oak leaves utilizing the python-based machine learning framework PyTorch
- Verified the neural network behind the open-source plant measuring software LeafMachine, providing quality control of machine performance
- Replicated issues from model output to troubleshoot prediction accuracy

University of Miami   **Coral Gables, Florida**
College of Arts and Sciences Teaching Assistant   August 2018 – May 2021

- Provided support for students through one-on-one assistance with understanding topics in computational biology such programming in Python and R
- Offering complete instructional support for students unable to attend regular classes
- Updated student grades by verifying results from classwork, responding to issues raised in a timely manner

Kellogg Company   **Oak Brook, Illinois**
IT Intern   May 2019 – August 2019

- Programmed a mobile application using React Native to connect residents of Chicago's Blue Island and Robbins neighborhoods to local resources and services such as schools and hospitals
- Addressed the needs of multiple stakeholders on the project including customers, nonprofit organizations, and corporate
- Earned certifications that improved efficiency and work capacity, such as "AGILE SAFe 4 Practicioner"

EDUCATION

University of Miami   **Coral Gables, Florida**
B.S., double major in Computer Science and Ecosystem Science & Policy   May 2019 – August 2019
Honors:

- *summa cum laude* (GPA: 3.98)
- Gilman Scholar
- Ronald A. Hammond Scholar
- Foote Fellows Honors Program

SKILLS & INTERESTS

Programming Languages: Python, Java, R, C#, Swift, C
Software/Systems: RStudio, Jupyter Notebook, PyTorch, UNIX, Git, Windows, Android Studio
Languages: Fluent in Spanish
Interests: Gardening, Rock Climbing, Cross-Cultural Learning, Cooking