

Avery Reyna

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EDUCATION

University of Central Florida

June 2018 – May 2023

Bachelor of Science in Social Sciences

Orlando, FL

- **Coursework:** Statistical Methods of Political Science, Programming with C, Object-Oriented Programming

EXPERIENCE

UCF School of Politics, Security, and International Affairs

January 2022 – Present

Quantitative Social Science Research Assistant

Orlando, FL

- Created **20+ data visualizations** utilizing **Python**, **Datawrapper**, and **Inkscape** that illustrated topics such as the coup epidemic in the Middle East, successful leadership turnover since 1950, and modern North African politics
- Researched anti-coup strategies that addressed Sudanese civilian allies and reflected upon illegal leadership turnover risk in Mali to write two articles for prominent online magazines reaching **over 150k readers** a year

Swing Left

August 2021 – May 2022

Analytics Intern

Remote

- Ideated and launched a binary logistic regression model using **Python** and **scikit-learn** that internal Community and Marketing teams use to better their donation-focused marketing campaigns targeting **250k users** a year
- Overhauled old data infrastructure by co-designing workflows that mapped out key pipelines that connected **PostgreSQL** databases to new **Snowflake** warehouses and eliminating **55+ inactive Metabase** dashboards

University of Washington Tacoma

June 2021 – August 2021

Visiting Research Fellow

Tacoma, WA

- Geospatially modeled U.S. Census tracts with **ArcGIS**, analyzed Principal Component variance with **Pandas**, and created four data visualizations with **Matplotlib** in order to improve political redistricting efforts in North Carolina
- Employed **sprint tasks** and **agile planning** methods to work cross-functionally with four Research Fellows and Professors while utilizing **Trello** to keep track of ongoing and completed project tasks

PROJECTS

Accessible Connection and Collaboration

- Devised five lo-fi mockups in **Figma** as the **sole Designer** on a seven-person team dedicated to building a mobile application to connect blind and low-vision users with the assistance they need for exploring unfamiliar locations
- **Co-led frontend development** with **React.js**, **Material UI**, and **TypeScript** to build clean, interactive, and accessible user interfaces and UI components
- Implemented and shipped scratchpad and private messaging features using **Socket.IO** in order to facilitate **12 user studies** planned for a research study at Columbia University

Human-Centered Machine Learning Dashboard

- Built a web application utilizing **Vue.js** and **PHP** for a team of **15 Undergraduate Researchers** studying how qualitatively coding large sets of conversation data can improve algorithms that detect risky content online
- Collaborated with UX Designers and Graduate Researchers to build dynamic full-stack features in **React.js** and **TypeScript** to create a system of storing and interacting with flagged data from **over 300 users** in the lab's database

SKILLS

Languages: Python (Pandas, NumPy), JavaScript (React.js, D3.js), TypeScript, HTML/CSS, SQL (PostgreSQL, MySQL)

Tools: Figma, Notion, Jira, Trello, GitHub, Datawrapper, Inkscape