

Melina Raglin

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PROFESSIONAL HIGHLIGHTS AND ACHIEVEMENTS

2022 Population Associate of America Conference, Atlanta, GA 2022 | Presented research and software supporting the use of facial recognition models to address the lack of important demographic information in sociological big data.

DCiFR (Demographic Characteristics in Facial Recognition), 2021 | First author of a graphical user interface software that allows for users to upload photos and receive demographic analysis results from facial recognition models.

Data I/O 2020, The Ohio State University Data Analytics Hackathon | Wrote a Python script to scrape NFL play data from 2009-2018. Performed a regression analysis to deliver valuable insights regarding influential plays and team point prediction.

The Ohio State University Eminence Scholarship | Full merit scholarship awarded to 25 incoming freshman each year.

The Ohio State University – Dean's List | Maintained a 3.5 GPA or higher, 2019/20, 2020/21, and 2021/22.

Technical Skills | Python, SQL, Java, C, R, Tableau, PowerBI, Snowflake, HTML, CSS, Git/Github, Assembly x86-64, Linux

INTERNSHIPS AND WORK EXPERIENCE

Abercrombie and Fitch Co., Data Strategy Intern

June 2022 – August 2022

- **Wrote thousands of lines of SQL code** to collect specific customer segment data from the Snowflake platform. **Delivered hundreds of relevant insights, including counts, ratios, and other valuable metrics**, from such data to inform strategy development and split testing for new personalized user features across website, email, push, and app.
- **Developed an accelerated learning model** to optimize the transition of data visualization tools for the personalization team. Proposed and presented this new concept to influential members of the digital and technology department, which was received with significant enthusiasm and support, as well as questions about timeline of implementation.
- **Collaborated with 7 fellow interns to present case competition work to key decision makers in the business**, solving a cross-functional business problem focused on converting non-buyers. Presented solution conceptualization, target customer analysis, and website redesign after less than 24 hours of work. Judges provided complex questions and positive feedback.

Ohio State University Department of Sociology, Research Assistant

January 2020 – Present

- Served as the first author of **DCiFR** (Demographic Characteristics in Facial Recognition), a Python graphical user interface allowing users to run facial attribute analyses on photos from their own device, coded on **Jupyter Notebook** with heavy use of **PyQt5** and computer vision models **DeepFace** and **FairFace**. Allows for complex facial analysis models to be accessible to users of all technical abilities. Presented at the Population Association of America conference in April of 2022.
- **Collaborating with the openVA team to build a temporal database system for large-scale population data in SQLite**. Helping to create GUIs for users to interact with verbal autopsy algorithms, addressing the global concern for undocumented deaths.
- **Served as Assistant Researcher on a computational social science research project evaluating race and inequality on the internet and in academia** through data analysis, web scraping, and facial recognition processes. Developed proficiency in Python and R for data collection and analysis, writing over 20 Python scripts to scrape important information from various websites.

Garyfallidis Research Group (Indiana University School of Informatics, Computing, and Engineering), Software Development Intern

May 2020 – May 2021

- **Acted as a developer for FURY, an international open-source scientific visualization project**, under a research group focused on developing medical imaging solutions with the help of software development and machine learning solutions.
- **Wrote several 3D visualization and animation tutorials in Python for new users of FURY and implemented new shapes and functions to expand the FURY library** using 3-dimensional calculus math and several Python packages including VTK9 and NumPy. Merged several pull requests to the main GitHub branch, also assisted in editing those of others.

EDUCATION

The Ohio State University, Columbus, Ohio

Class of 2023

Bachelor of Science in Data Analytics

GPA: 3.667

Major: Data Analytics, specialization in Data Visualization

Minor: Sociology

CAMPUS INVOLVEMENT AND LEADERSHIP EXPERIENCE

Data Analytics Path Peer, Mentor

Fall 2021 – Present

Translational Data Analytics Institute, Member

Fall 2021 – Present

Big Data Analytics Association, Member

Fall 2019 – Present

Bloomington High School North, Assistant Girls Varsity Swim Coach

October 2020 – March 2021