MELINA RAGLIN

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PROFESSIONAL HIGHLIGHTS & ACHIEVEMENTS

2022 Population Associate of America Conference, Atlanta, GA 2022 | Presented research findings 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 the facial recognition model of their choice, coded in Python.

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 for all four years of undergraduate (2019-2023).

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

RELEVANT EXPERIENCE

ABERCROMBIE and FITCH CO. — June 2022 to August 2022
Data Strategy Intern

- Wrote **complex SQL queries daily** to collect specific customer segment data from the Snowflake platform. Delivered hundreds of relevant insights through **Excel**, 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 A&F 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 — January 2020 to April 2023
Research Assistant

- Served as the first author of **DCiFR** (Demographic Characteristics in Facial Recognition), a Python graphical user interface (GUI) 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.
- Worked collaboratively with the openVA (verbal autopsy) team to build a **temporal database system for large-scale population data in SQLite**. Helped to create and code GUIs in **Python** for users to interact with verbal autopsy algorithms, addressing the global concern for undocumented deaths and ensuring technological accessibility across the world.
- Served as **Assistant Researcher** on a long-term computational social science research project **evaluating race and inequality on the internet and in academia** with data analysis, web scraping, and facial recognition tools. 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 — May 2020 to May 2021
Software Development Intern, Indiana University School of Informatics, Computing, and Engineering

- 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.

CAMPUS INVOLVEMENT & LEADERSHIP

Data Analytics Path Peer, Mentor	**Fall 2021 to Spring 2023**
Translational Data Analytics Institute, Member	**Fall 2021 to Spring 2023**
Big Data Analytics Association	**Fall 2019 to Spring 2023**
Bloomington High School North, *Assistant Girls Varsity Swim Coach*	**October 2020 to March 2021**

EDUCATION

The Ohio State University, Columbus, Ohio — **Class of 2023**

Bachelor of Science in Data Analytics: GPA**: 3.707; Major:** Data Analytics, specialization in Data Visualization; **Minor:** Sociology, Graduated on May 7th, 2023 Magna Cum Laude with Honors in the Arts and Sciences.