

Melina Raglin

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INTERNSHIPS AND WORK EXPERIENCE

Abercrombie and Fitch Co., *Data Strategy Intern*

June 2022 – August 2022

- Worked as analyst on the personalization team, writing thousands of lines of SQL code to collect specific customer segment data from the Snowflake platform. Produced relevant insights from such data to inform strategy development and A/B testing for new personalized user features on website, email, and app.
- Presented personal project work on the transition of data visualization tools to influential members of the digital and technology department, proposing a completely new concept for accelerated learning to optimize the work of both the personalization team and the technology department as a whole.
- Collaborated with fellow interns to present case competition work to key decision makers in the A&F business, solving a cross-functional business problem in less than 24 hours of work, including solution conceptualization, target customer analysis, and website redesign.

Ohio State University Department of Sociology, *Research Assistant*

January 2020 - Present

- 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. Presented research and software for using facial recognition models to add demographic characteristics to big data at the **2022 Population Association of America Conference** in Atlanta, GA.
- Currently working with the **openVA** team, a demographic research lab, to build a temporal database system for population data in SQLite, and to help to create GUIs for users to interact with verbal autopsy algorithms.
- 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. Became proficient in using Python and R for data collection and analysis, writing over 20 of Python scripts to scrape important information to be analyzed in R from various websites.

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

May 2020 – May 2021

- Intern for medical imaging, software engineering, and machine learning research group, focusing on FURY, an international open-source scientific visualization project.
- 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 request to the main GitHub branch, also assisted in editing those of others.

TECHNICAL SKILLS

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

EDUCATION

The Ohio State University, Columbus, Ohio
Bachelor of Science in Data Analytics

Class of 2023
GPA: 3.667

Major: Data Analytics, specialization in Data Visualization **Minor:** Sociology

Relevant Coursework: *Linear Algebra, Foundations of Discrete Structures, Software Components, Software Development and Design, Statistical Probability & Inference for Data Analytics Majors, Calculus I-III, Systems I, Intro to Database Systems, Systems Analysis for Optimization, Statistical Modeling for Discovery I-II, Interactive Arts Media II, Visual Analytics to Support Sensemaking*

HONORS, AWARDS, AND SCHOLARSHIPS

The Ohio State University Eminence Scholarship, full cost-of-attendance merit award given to 25 incoming freshman each year.

The Ohio State University – Dean’s List, maintaining a 3.5 GPA or higher, 2019-2022

CAMPUS INVOLVEMENT AND LEADERSHIP EXPERIENCE

Data Analytics Path Peer Mentor, Fall 2021-Present

- Mentor for underclassmen pre-data analytics majors at Ohio State. Help to advise and assist with students one-on-one to guide them through the process of becoming a data analytics student.

Translational Data Analytics Institute Member, Fall 2021-Present

Big Data Analytics Association, Fall 2019-Present

Bloomington High School North, Assistant Girls Varsity Swim Coach, October 2020-March 2021

Data I/O 2020, The Ohio State University, October 2020

- Participated in Ohio State’s data analytics hackathon and wrote a Python script to scrape all NFL play by play data from 2009-2018. Performed a regression analysis to come to valuable conclusions about what plays were most influential in predicting each team’s number of points gained.