Melina Raglin

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INTERNSHIPS AND WORK EXPERIENCE

Ohio State University Department of Sociology, *Research Assistant*   **January 2020 - Present**

- Assistant researcher on a computational social science project evaluating race and inequality on the internet through data analysis, web scraping, and facial recognition processes.
- Became proficient in using Python and R for data collection and analysis, writing over twenty Python scripts to scrape important information to be analyzed in R from various websites.
- First author of DCiFR (Demographic Characteristics in Facial Recognition), a Python graphical user interface allowing users to run facial attribute analyses on their photos from their own device, coded on Jupyter Notebook with heavy use of PyQt5 and computer vision models DeepFace and FairFace.

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.
- Worked on development for FURY, an international open-source scientific visualization project.
- Wrote 3D visualization and animation tutorials in Python for new users and implemented new shapes and functions to expand the FURY library using 3-dimensional calculus math and several Python packages including VTK9 and NumPy.
- Became proficient in Github, merged several pull requests into the main FURY branch, and edited and reviewed those of others.

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

TECHNICAL SKILLS

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

EDUCATION

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

Bachelor of Science in Data Analytics, *expected June 2023*   **GPA: <u>3.652</u>**

<u>Major</u>: Data Analytics, specialization in Data Visualization   <u>Minor</u>: Sociology

<u>Relevant Coursework</u>: *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*

Indiana University, Bloomington, Indiana

Computer Science and Informatics classes taken through IU OPEN program

Fall 2017-Spring 2019

Bloomington High School North, Bloomington, Indiana   **Weighted GPA: 4.425**

Graduated June 2019, Honors Diploma

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*, 2019-2021

CAMPUS INVOLVEMENT

Translational Data Analytics Institute Member, Fall 2021-Present

Data Analytics Peer Path 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.

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 influenced each team's number of points gained most effectively.

Big Data Analytics Association, Fall 2019-Present

Cultivate Columbus, Fall 2020-Present

OSU Climbing Club, Fall 2019-Fall 2020