
PROFESSIONAL HIGHLIGHTS AND ACHIEVEMENTS

2022 Population Association 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.

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

RELEVANT EXPERIENCE

ABERCROMBIE and FITCH CO., Data Strategy Intern

06.22-08.22

- Wrote **complex SQL queries daily** to collect specific customer segment data from the **Snowflake CRM** platform. Delivered hundreds of relevant insights through **Excel**, including counts, ratios, and other valuable metrics, from such data to inform **strategy development** and **A/B 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.
- Optimized web analytics **tag management database architecture**, improving the method of storing necessary metadata on tag data from hundreds of sources, including **Google Analytics**.
- 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.

THE OHIO STATE UNIVERSITY DEPARTMENT of SOCIOLOGY, Research Assistant

01.20-04.23

- 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 in **Jupyter Notebook** with heavy use of PyQt5 and computer vision models DeepFace and FairFace. Allows 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, Software Development Intern

05.20-05.21

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, and also assisted in editing those of others.
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EDUCATION

The Ohio State University, Columbus, Ohio

Bachelor of Science: 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.

Campus Involvement: **Data Analytics Path Peer Mentor** (AU21-SP23), **Translational Data Analytics Institute Student Member** (AU21-SP23), **Big Data Analytics Association Member** (AU19-SP23).