Mira Flynn

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EDUCATION

Olin College of Engineering Aug. 2019 – May 2023
Bachelor of Science in Engineering: Computing Needham, MA
Recipient of 50% Tuition Merit Scholarship

Selected Coursework: SCOPE, Technology, Accessibility, and Design, Probabilistic Modeling, Astronomy and Statistics, Principles of Integrated Engineering, Discrete Math, Computer Architecture, Complexity Science, Software Systems, Engineering Systems Analysis, Quantitative Engineering Analysis, Foundations of Computer Science, Data Science, Microelectronic Circuits, Modeling and Simulation

EXPERIENCE

Data Analytics and Management Intern Jun. 2022 – Aug. 2022
Pfizer
- Investigated the business uses of project management data and create a dashboard to highlight important characteristics of the project portfolio
- Processed and visualized data to highlight important aspects for easy identification by project portfolio managers
- Discovered situations where business necessities override other characteristics in choosing software tools

Teaching Assistant- Data Science, Astronomy and Statistics Sep. 2021 – May 2023
Olin College of Engineering Needham, MA
- Assisted in teaching probability and statistics, programming in R and Python, and effective visual communication of information
- Graded assignments and assisted students with questions and topics they were be confused about
- Helped students work through project roadblocks and assisted in scientific writing about their projects

Researcher - Qualitative Interview-Based Research Jun. 2021 – Aug. 2021
Olin College of Engineering Needham, MA
- Worked with Professor Zach del Rosario to research how engineers process uncertainty in data
- Interviewed engineering students using an IRB-approved protocol
- Developed and applied a formal interview coding protocol
- Co-authored "A Qualitative Study of Engineering Students' Reasoning About Statistical Variability" (2021, Under Review)

Researcher - Shared Mobility Systems Jun. 2020 – Aug. 2020
Olin College of Engineering Needham, MA
- Worked with Professor Alice Paul and City of Providence to research equity in their shared mobility systems
- Discovered systemic inequities and offered insight into how the shared mobility systems could better serve the city as a whole
- Used R to model system demand and usage patterns, and data analysis techniques including linear regression, decision trees, and several clustering algorithms to compare those patterns to demographic data
- Used Shiny and Leaflet packages to create an application to visualize and explore our model output

PROJECTS

National High Injury Network Analysis Tool | *Python, Flask, SQL, AWS, NumPy, Pandas* Sep. 2022 – May 2023
- Worked in a team of 5, using an Agile development process
- Developed a full-stack web application using with Flask interfacing with an AWS database
- Researched user needs and designed an application to fulfill them
- Developed an algorithm using OSMnx (OpenStreetMap data), NumPy, Pandas, SciPy, and Shapely to find the most dangerous roads in an area

TECHNICAL SKILLS

Languages: Python, R, SQL, Arduino, MATLAB, JavaScript, HTML, PHP, OCAML, C
Developer Tools: Git/GitHub, Amazon Web Services (AWS), VS Code, RStudio, Spotfire, Alteryx, Jira
Libraries: NumPy, Pandas, GeoPandas, SciPy, OSMnx, Shapely, Matplotlib, Tidyverse, R Shiny, Leaflet