

Summer 2020 Research Opportunities

If interested, please email Alice Paul (apaul@olin.edu)

Mobility in Providence

Bike share and scooter share programs offer new modes of and access to transportation but also present new operational questions. This data science project will be a collaboration with Alex Ellis, a Principal Planner in the City of Providence. The project will focus on how to enable these programs to better serve the community by using data science to estimate and analyze spatial demand from past use and measure equity in access.

Preferred skills: data science, statistics, R or python, modeling and simulation

Deep Learning for Medical Data

The primary goal of this project is to create a python library that adapts deep learning algorithms to settings with medical data. This type of data (called lifetime data) is often censored (meaning we don't have the full information) so the data needs to be transformed before processing. Creating this package will enable researchers to more efficiently analyze medical data. Further, students will learn about machine learning techniques such as random forests and neural networks along the way. This project is in collaboration with Brown School of Public Health.

Preferred skills: python, machine learning