Waveley Qiu

MS Biostatistics (Theory and Methods) '23 | Columbia University
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Education

MASTER'S OF SCIENCES, BIOSTATISTICS | THEORY AND METHODS TRACK   2021 - 2023

Columbia University, Mailman School of Public Health. GPA: 3.958

Relevant Coursework:

P8104 - Probability
P8109 - Statistical Inference
P8130/P8131 - Biostatistical Methods 1 and 2

P8105 - Data Science 1
P8160 - Advanced Statistical Computing
P8158 - Latent Variables and Structural Equation Modeling

BACHELOR'S OF SCIENCES, STATISTICS | LINGUISTICS MINOR   2016 - 2020

University of California, Los Angeles

Skills and Competencies

PROGRAMMING LANGUAGES

R – 4 years of experience. Skilled in `tidyverse` functions, data cleaning, EDA, modeling, and simulations.
SAS – 2 years of experience. Skilled in `DATA` step and many `PROC` procedures (such as `PROC SQL`, `PROC REPORT`, `PROC TABULATE`, `PROC UNIVARIATE`), and the macro language
SQL – 2 years of experience. Used within `PROC SQL` in SAS.

LANGUAGES

English
Mandarin

Projects

BAYESIAN MODELING OF HURRICANE TRAJECTORIES   P8160 | SPRING 2022 (TEAM OF 6)

Established a Markov Chain Monte Carlo method (Gibbs Sampler) to estimate parameters of a proposed linear model in a Bayesian framework to estimate hurricane wind speed.

BOOTSTRAPPING IN THE SETTING OF PROPENSITY SCORE MATCHING   P8160 | SPRING 2022 (TEAM OF 5)

Designed and executed a Monte-Carlo simulation study evaluating the accuracy of two bootstrap methods in estimating the standard error of average treatment effect when utilizing propensity score modeling in both binary and continuous outcome settings.

PARKING VIOLATIONS IN NYC   P8105 | FALL 2021 (TEAM OF 5)

Conducted exploratory data analysis using data from OpenNYC to examine the distribution of parking violation tickets across New York City.

Conducted simple spatial analysis and created interactive maps identifying most commonly ticketed fire hydrants.

Employment

COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

Graduate Teaching Assistant   *January 2022 - present*

TA for P6110: Statistical Computing with SAS (Spring '22) and Summer Institute in Biostatistics and Data Science (Summer '22).

Responsible for holding weekly office hours and/or leading recitation, assisting students during lab session in lecture, and grading homework.

Graduate Research Assistant   *March 2022 - present*

Contributing to the data cleaning and exploration efforts for a multi-country longitudinal study relating occurrences of natural disasters with childhood health outcomes.

EDETEK, Inc.

Statistical Programmer I   *October 2020 - August 2021*

  Generated production and validation standardized datasets (SDTM/ADaM), tables, lists, and figures (TLFs) for submission to various regulatory agencies and publication groups.

  Worked with data management team to manage data review and generated regular monitoring reports, data reconciliation reports, and programmed edit checks.

  Principally responsible for producing and maintaining protocol deviation listings for several studies.

  Programmed in SAS and SQL (PROC SQL), establishing macros and automating processes in both data review and deliverable production.

Statistical Programming Intern   *July 2020 - October 2020*

  Assisted in SDTM, ADaM, and TLF generation.

  Assisted data management team in data cleaning process.

  Performed routine data management tasks in reviewing database entries and in opening and closing queries

Relypsa Inc./Vifor Pharma

Biometrics Intern   *June 2019 - September 2019*

  Generated validation SDTMs after independently learning SAS.

  Assisted in manuscript review.

  Worked with drug safety department and generated a weekly SAE listing.

UCLA California Nanosystems Institute

Undergraduate Research Assistant   *January 2018 - June 2020*

  Assisted in the manufacturing of nanoparticles.

  Conducted experiments determining drug retention and release.

  Analyzed measurements in Excel and experiment-specific software (CompuSyn).