Eric Li

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Personal Website LinkedIn GitHub

Education

M.S. Biostatistics ---------- Harvard School of Public Health, 2024-2026
B.S. Mathematics and Computer Science (dual degree) ---------- University of Maryland College Park, 2020-2024
Undergraduate Unweighted Cumulative GPA: 3.886 (out of 4.0)

Technical Experience

Software: R (tidyverse, Shiny), Python (pandas, sklearn, pytorch), SQL, MongoDB, Git, Java, C, PHP, SAS, MATLAB
Relevant Coursework: Data Science, Machine Learning, Database Design, Linear Algebra, Probability Theory, Mathematical Statistics, Real Analysis, Numerical Analysis, Algorithmic Analysis, OOP, Bioinformatics

Work/Research Experience

Graduate Researcher, College Park, MD ——— June 2024 - July 2024

- Created a RShiny web application for analyzing genomic data. Applied bayesian network analyses to discover causal relationships between genes and RNAs. Implemented functional UI and graphics.

Undergraduate Summer Researcher, College Park, MD ——— June 2023 - August 2023

- Developed and presented an independent research project for the RISE Lab that utilized ~8.7 millions Tweets to investigate the impact of hurricanes on healthcare facilities.
- Created informative visualizations including hourly sentiment scores, wordclouds, and word frequency plots using large, temporal datasets. Gained insights into frequently discussed topics during a storm. Github Code

Mathematics and Statistics Grader, College Park, MD ——— Sept. 2022 - May 2024

- Graded homeworks and R/SAS projects for an applied linear algebra class, statistical inference class, and statistical computing class (~30 students each). Provided constructive feedback and created answer keys.

Biostatistics Researcher, Ann Arbor, MI ——— June 2022 - July 2022

- Conducted and presented a genomics research project on differential DNA Methylation between population ancestry groups with three other students.
- Applied quantitative analysis skills through a summer training program in biostatistics, data science, and public health. Heavy use of R language and packages.

Projects (found on website and github)

Men's Professional Tennis Data Analysis

- Created a data science tutorial using data from the ATP Tour. Utilized linear regression and hypothesis testing to determine whether certain physical attributes such as height and dominant hand are significant advantages.

MoneyBall Analysis

- Integrated data extraction techniques using SQL to investigate MLB team salaries from 1990-2014 in order to determine if the Oakland Athletics really performed better than other teams while spending less money. Link

Awards/Honors

UMD Presidential Scholarship
UMD Dean's List 8/8 semesters
University Honors Living Learning Program