

Eric Li

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 [Personal Website](#) |  [LinkedIn](#) |  [Github](#)

OBJECTIVE

I am currently a master's student in biostatistics at Harvard SPH seeking a data science or (bio)statistics internship, with experience in developing data-driven web applications, creating informative visualizations, and applying comprehensive statistical analyses. My diverse research experiences have ranged from creating an RShiny application for genomic data to investigating hurricane impacts using a large Twitter dataset. Through these projects, I have demonstrated adept technical skills in data analysis, programming, and data visualization.

EDUCATION

Harvard University

M.S. Biostatistics

◦ GPA: 4.00/4.00

September 2024 - May 2026

Boston, MA

University of Maryland College Park

B.S. Computer Science, B.S. Mathematics

◦ Achievements: GPA: 3.88, Dean's List 8/8 Semesters, Honors Program, Presidential Scholarship

September 2020 - May 2024

College Park, MD

EXPERIENCE

University of Maryland School of Public Health

Graduate Research Assistant

- Developed a RShiny web application for analyzing genomic data, enhancing accessibility for research teams
- Applied Bayesian network methods to discover causal relationships between genes and noncoding RNAs

June 2024 - July 2024

College Park, MD

University of Maryland Civil Engineering Department

Risk Analysis Researcher

- Developed and presented an independent research project for the RISE Lab that used approximately 8.7 million Tweets to analyze the impact of hurricanes on healthcare facilities, leading to insights for emergency preparedness
- Analyzed data to gain insights into frequently discussed topics during a storm using pandas and sklearn, which informed strategies for improving communication during emergencies

June 2023 - August 2023

College Park, MD

University of Michigan School of Public Health

Biostatistics Researcher

- Presented a genomics research project on the association between differential DNA Methylation in population ancestry groups and the prevalence of SNPs with three other students
- Applied quantitative analysis skills using R and Python during a summer training program in biostatistics, data science, and public health

June 2022 - July 2022

Ann Arbor, MI

University of Maryland Civil Engineering Department

Undergraduate Researcher

- Led a geospatial modeling project to analyze the operational statuses of U.S. nuclear power plants during hurricanes, providing critical insights to strengthen disaster preparedness and response strategies
- Created dynamic maps using Plotly in Python and R to visualize response patterns in nuclear plant operations throughout a hurricane

September 2021 - May 2022

College Park, MD

PROJECTS

BMI Classification

Tools: Python, sklearn, pandas, matplotlib

- Experimented with three classification models (Logistic Regression, Naive Bayes, SVM) to predict the BMI category of an individual based on health attributes such as physical activity level, sleep quality, and blood pressure
- Gained valuable insights into the training time vs. accuracy tradeoff

2023



Moneyball Analysis

Tools: Python, SQLite, pandas, matplotlib

- 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

2022



Men's Professional Tennis Analysis

Tools: Python, statsmodels, pandas, matplotlib

- Applied linear regression and hypothesis testing to determine if certain physical attributes such as height and dominant hand significantly increase a player's chances of winning

2022



SKILLS

Data Analysis: EDA, Data Visualization, Regression Analysis, Machine Learning, Data Engineering, OOP

Programming: Python, R, SQL, MongoDB, Spark, Hadoop, SAS, Java, C, PHP, MATLAB, OCaml, Ruby, Rust

Libraries/Frameworks: dplyr, ggplot, RShiny, pandas, pytorch, sklearn, matplotlib