

Eric Nguyen

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EDUCATION

University of California, San Diego

Bachelor of Science in Computer Science

June 2027

San Diego, CA

EXPERIENCE

Biostatistical Researcher

June 2024 – Present

University of California San Diego Health

San Diego, CA

- Led the analysis on demographic significance on non-small cell lung cancer patients with EGFR mutations, one of the leading causes of cancer-related deaths
- Utilized Databricks along with SQL and R to query data from the UC Health Data Warehouse which contains records on over 8 million patients
- Created graphs using data to visually analyze the significance of demographic cross sections
- Draw conclusions from the data and possible solutions as to why certain demographics inhibited a higher risk than others

Data Analysis Researcher

June 2022 – September 2022

University of California San Diego Health

San Diego, CA

- Spearheaded the analysis of UCSD oncology patient data, used R to meticulously create graphs and dataframes to visualize potential options to optimize treatment
- Orchestrated a presentation at a symposium for treatment optimization, which was presented to other principal investigators and researchers
- Developed foundational data frameworks for researchers, optimizing treatment plans and mitigating risk factors such as radiation for patients during treatment

Student Trainee

September 2017 – May 2020

The League of Amazing Programmers

San Diego, CA

- Completed a 3-year long coding bootcamp, honing experience for Java and Javascript up to industry standards through weekly classes and challenging projects
- Fostered a collaborative environment, routinely tackling challenges with peers before seeking mentor guidance, promoting growth and support among students
- Demonstrated perseverance and problem-solving skills, contributing to a culture of continuous learning and skill development within the program

PRESENTATIONS/PROJECTS

Demographic Significance of EGFR mutations in NSCLC Patients | *SQL, R*

June 2024 – Present

- Presentation showcasing the demographic significance for Epidermal Growth Factor Receptors mutations and how it affects Non-Small Cell Lung Cancer patients
- EGFR mutations is the leading cause of NSCLC, which then leads to NSCLC representing 80% of new lung cancer cases each year
- Key goals were to identify how different demographic cross sections led to EGFR mutations utilizing genomic data and past information on patients taking TKIs (Therapy/Drug)

Adaptive Radiotherapy | *R, Python*

June 2022 – September 2022

- Presentation that showcased analyses on key differences between standard therapy and radiotherapy for oncology patients using UCSD data
- Created graphs that displayed differences that included physician experience, complexity of treatments, net shifts on CBCT, and radiation dosage
- Looked into optimizing treatment times for patients by comparing data points and came up with future goals for preceding researchers

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS, R

Frameworks: React, Node.js, JUnit

Developer Tools: Git, Google Cloud Platform, VS Code, VIM, Microsoft Services

Libraries: pandas, NumPy, Matplotlib, Ggplot2, Dplyr, Shiny