

Richard Quach

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Education

Boston University Sargent College of Health and Rehabilitation Sciences

Boston, MA

Major and Minor: *Bachelor of Science in Health Science, Minor in Data Science*

Graduation Date: May 2025

Work Experience

Alervio

Remote

Clinical Data Research Intern

June 2025 - December 2025

- Researched and extracted 200+ clinical and nutritional datasets from peer-reviewed literature, guidelines, and medical databases to support AI model development in food allergy and nutrition health applications.
- Help establish fundamental medical guidelines and nutrition research using 10+ major medical datasets to maintain clinical relevance of datasets and LLM for a nutrition-focused startup.
- Collaborated with 5+ AI engineers and board members to identify data gaps and implement solutions for more accurate recommendation algorithms.

Harvard Medical School MJ Lab Data and Systems Science in Public Health

Boston, MA

Undergraduate Researcher

December 2024 - May 2025

- Analyzed 50+ existing research on the effectiveness of ChatGPT in supporting PhD paper reviews, evaluating AI's role in enhancing academic writing quality, streamlining feedback, and identifying areas for further exploration.
- Spearheaded a project leveraging ChatGPT to detect 50+ errors in peer-reviewed papers, where I assisted in drafting, preparing, and researching grant proposal topics related to ABCD study topics.
- Standardize a process to identify errors in existing retracted papers through testing different models, prompts and settings to maximize efficiency while also maintaining accuracy.

Accesso Care

Philadelphia, PA

Executive Assistant

May 2024 – August 2024

- Scaled a startup CNA staffing agency, increasing the active workforce from 20 to over 50. Implemented a systematic training pipeline, successfully training 2 CNAs weekly.
- Arranged and edited 5+ policy briefs and 2+ op-eds related to the nursing shortage and how to care for an aging population.
- Conducted and attended 4+ community outreach events to present CNA opportunities to immigrant populations.

Boston University School of Public Health

Boston, MA

Undergraduate Researcher

September 2023 – January 2025

- Performed research under the CDC EPISTORM project which has been funded \$17.5 M over 5 years to create tools to enhance infectious disease response capabilities in the US.
- Finalized a contract tracing survey in REDCap for an NIH-sponsored research study on the transmission of AGE and ARI illnesses for about 1000+ total contacts.
- Attended monthly and annual conferences to discuss the next steps in the project, and became familiar with IRB practices.
- Compiled, cleaned, and extracted over 100,000+ individual data points related to TB in prison populations, especially in the Americas, using Python to visualize the growth in the years of TB cases related to prison populations.

Boston University College of General Studies

Boston, MA

Undergraduate Researcher

September 2022 – May 2023

- Inspected the 20+ kinds of bacteria present in the Charles River to determine antibiotic resistance using 100+ agar plates.
- Maintained strict adherence to aseptic technique and biosafety protocols in BSL-1/BSL-2 environments, directly relevant to maintaining sample integrity during library preparation.
- Ensured accuracy and consistency in all lab procedures by meticulously documenting experimental records and lab notes, adhering to GDP principles.

PCDC (Philadelphia Chinatown Development Corporation)

Philadelphia, PA

Social Media Administrative Intern and Vaccine Administrator

September 2021 – January 2022

- Built a hub of information on vaccination sites; displayed each site supporting the location, type of vaccine available, and available language, where I designed 7+ COVID-19 educational materials for Philadelphia's AAPI immigrant communities.
 - Coordinated the vaccination of 1,000+ people over the period of 2 months.
 - Mentored a team of 7 interns to compile a list of 100+ local vaccine clinic locations that provide varied language support.
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Activities

Delta Phi Epsilon (Professional Foreign Service Fraternity)

Boston, MA

Member/Writer

January 2022 - May 2025

- Coordinated and participated in 5 events with speakers from BU and the community, presentations related to foreign service.
 - Published 4 papers discussing the connection between International Relations related to Africa and Public Health.
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Skills and Interests

Laboratory Skills: Microbial culturing, Aseptic technique, Gram staining, Pipetting, Serial dilution, Agar preparation, Microscopy

Coding Skills and Interests: Python, R, SQL, REDCap, Rust, Microsoft Office