

RACHEL X. LI

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EDUCATION

Harvard University

Cambridge, MA

Anticipated A.B. in Computer Science & Statistics (3.8 GPA)

May 2023

Coursework in Computer Science, Probability & Statistical Inference, Linear Algebra, English, Philosophy.

Leadership: Founder / Co-President of Group for Undergraduates in Statistics at Harvard (GUSH)

- Lead the executive team to organize speaker and alumni panel events, educational workshops, social events, and volunteer initiatives for over 100 Harvard undergraduates.
- Organized summer mentorship program pairing 40 first-year students with upperclassmen mentors.

Spackenkill High School

Poughkeepsie, NY

Honors: Valedictorian (99.15 / 100 GPA)

June 2019

2nd Place National Team Winner at 2017 Siemens Competition; 2nd Place Materials Science at 2018 Intel ISEF; National Gallery for America's Young Inventors Inductee; US National Chemistry Olympiad Honors.

EXPERIENCE

Harvard University

Cambridge, MA

Teaching Fellow for Stat 110 (Introduction to Probability)

August 2020 – present

- Lead weekly section and hold office hours for over 500 students in Harvard's intro statistics course.

IBM Research

Yorktown Heights, NY

Quantum Software Developer Intern

June 2020 – present

- Designed and implemented front end (React.js, Redux, Bootstrap) and back end (Python, SQLAlchemy, REST) for quantum hardware assembly configuration management.
- Designed database infrastructure for health questionnaire mobile app.
- Completed Qiskit Quantum Computing Summer School for interns and IBM Intern Hackathon.

Harvard College Consulting Group

Cambridge, MA

Analyst

February 2020 – present

- Developed national care-expansion strategy for a Fortune 500 medical devices manufacturer.
- Compiled and analyzed large datasets to evaluate efficiency of service and care nationwide.

Romulus Capital

Boston, MA

Campus Associate

September 2019 – June 2020

- Sourced and performed due diligence for early stage Seed and Series A startups in B2B enterprise.

Ojima Lab

Stony Brook University, NY

Simons Summer Research Fellow

June – August 2018

- Conducted computational chemistry research using docking analysis, molecular dynamics simulation, and 3D-QSAR modelling; discovered novel drug candidates for the treatment of tuberculosis.

Garcia Center for Polymers at Engineered Interfaces

Stony Brook University, NY

Garcia Research Scholar

June – August 2017

- Designed, synthesized, and characterized a novel hybrid hydrogel biomaterial to treat dental disease; research presented at 2017 MRS Fall Conference; patent covering novel material filed.

PROJECTS

Tech4BLM – created an online database to connect STEM undergraduates with tech-related volunteer opportunities at organizations addressing racial injustice, police/prison reform, and Covid-19; used React and Netlify.

Office Hours – developed a live video and Q&A interface for remote teaching; performed NLP analysis to group similar questions; used React.js, Node.js, MongoDB, and Watson NLU.

Soulmatcher – designed and implemented a personality test & dating website; used Python, Flask, HTML/CSS.

SKILLS

Javascript (React.js, Redux, Node.js), Java, Python, R, HTML/CSS, SQL, Flask