

Lucy Hao

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Citizenship: USA, Canada

Research Interests theoretical chemistry, physical chemistry, computational chemistry, programming language theory, computer science education

Education **University of British Columbia** Vancouver, British Columbia
B.Sc. Combined Computer Science and Chemistry Sep. 2019 – Dec. 2024
GPA: 80%

Selected coursework, (* completing this term)

- CHEM 312: Introduction to Quantum Mechanics and Spectroscopy
- CHEM 304: Fundamentals of Thermodynamics and Statistical Mechanics
- CHEM 330: Advanced Organic Chemistry
- CPSC 322: Introduction to Artificial Intelligence
- CHEM 412: Electronic Structure of Atoms and Molecules*
- CHEM 401: Principles of Spectroscopy*

Honours and Scholarships Biotalent Canada Student Work Placement Program Grant (\$5,000) 2021
Alexander Rutherford High School Achievement Scholarship (\$2,500) 2019

Publications **Automated medical chart review for breast cancer outcomes research: a novel natural language processing extraction system.**
Chen, Y., Hao, L., Zou, V.Z., Hollander, Z., Ng, R.T., Isaac, K.V.
BMC Med Res Methodol 22, 136 (2022).

Research Experience **PROOF Centre, UBC**
Advisors: Prof. Raymond Ng, Prof. Dr. Kathryn Isaac Jan. 2021 – May 2021
Undergraduate Research Intern: Applied NLP techniques, Literature Review, Data Curation

Teaching Experience **Systematic Program Design (CPSC 110)** Winter 2022
Average Student Rating: 90%

Systematic Program Design (CPSC 110) Winter 2021
Average student rating: 90%.

Software Construction (CPSC 210) Summer 2021
Average student rating: 100%.

Software Construction (CPSC 210) Winter 2020
Average student rating: 80%.

Industry Experience	Capital One, TIP Software Engineering Intern	New York City, New York Summer 2022
	Microsoft, Garage Software Engineering Intern	Vancouver, British Columbia Summer 2021
Service and outreach	Dry Lab Co-Lead and Wiki Lead, UBC iGEM	Nov 2023 – Current
	Focussed on leading the dry lab team to create models and tools that are well integrated with our wet lab. Implementing an internal documentation system using practices from open source communities.	
	Wiki Lead and Dry Lab Member, UBC iGEM	Dec 2022 – Nov 2023
	UBC iGEM is a design team focussed on applying skills from molecular biology, genetics, computational biology and microbiology to conduct research in synthetic biology.	
	Director of Marketing and Technology, StarHacks	Sep. 2020 – Jan. 2022
Talks and tutorials	StarHacks is an international non-profit striving to create gender-inclusive spaces in computer science, breaking the stereotype of what it means to be a coder one hackathon at a time.	
	Director of Marketing, nwPlus	Sep. 2021 – Mar. 2022
	nwPlus is a student-led club supporting aspiring programmers and designers, based out of University of British Columbia.	
	Mentor, connect-f (nwPlus)	Jul. 2020 – Apr. 2021
	A mentorship program for girls* in tech designed to pair high school students with university students and new grad mentors.	
Talks and tutorials	Git, GitHub and Glue	Jan. 2024
	UBC iGEM 2023/24	
	Intersections of Technology Panel	Jan. 2022
	StarHacks II	
	Intro to Technical Interviews	Nov. 2021
Talks and tutorials	HackCamp	
	Pursuing a Successful Career in CS + Technology	Jul. 2021
	Hacking 4 Community	
Talks and tutorials	Intro to NLP	Jun. 2021
	Hydrangea Hacks	

Intro to Git and GitHub

Jun. 2021

Citro Hacks

Computers and Technology Panel

May 2021

Joy to Job

Intro to Git and GitHub and Intro to Python

Jan. 2021

StarHacks I