

# Lucy Hao

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**Citizenship:** USA, Canada

**Research Interests**      theoretical chemistry, physical chemistry, computational chemistry, quantum mechanics, statistical mechanics

**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 407: Statistical Mechanics in Chemistry\*
- 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**      New York City, New York

	Software Engineering Intern	Summer 2022
	<b>Microsoft</b> , Garage	Vancouver, British Columbia
	Software Engineering Intern	Summer 2021
Service and outreach	<b>Dry Lab Co-Lead and Wiki Lead, UBC iGEM</b>	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.	
	<b>Wiki Lead and Dry Lab Member, UBC iGEM</b>	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.	
	<b>Director of Marketing and Technology, StarHacks</b>	Sep. 2020 – Jan. 2022
	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.	
	<b>Director of Marketing, nwPlus</b>	Sep. 2021 – Mar. 2022
	nwPlus is a student-led club supporting aspiring programmers and designers, based out of University of British Columbia.	
	<b>Mentor, connect-f (nwPlus)</b>	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	<b>Git, GitHub and Glue</b>	Jan. 2024
	UBC iGEM 2023/24	
	<b>Intersections of Technology Panel</b>	Jan. 2022
	StarHacks II	
	<b>Intro to Technical Interviews</b>	Nov. 2021
	HackCamp	
	<b>Pursuing a Successful Career in CS + Technology</b>	Jul. 2021
	Hacking 4 Community	
	<b>Intro to NLP</b>	Jun. 2021
	Hydrangea Hacks	
	<b>Intro to Git and GitHub</b>	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