

Lucy Hao

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Email: lhao03@student.ubc.ca

Phone: Redacted

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 330: Advanced Organic Chemistry
- CHEM 318: Principles of Catalysis
- CPSC 322: Introduction to Artificial Intelligence
- CPSC 436A: Operating Systems Design and Implementation
- CPSC 421: Introduction to Theory of Computing
- 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%.

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| Industry Experience | Capital One, TIP | New York City, New York |
| | Software Engineering Intern | Summer 2022 |
| | Microsoft, Garage | Vancouver, British Columbia |
| | Software Engineering Intern | 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 |
| | 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 |
| | HackCamp | |
| | Pursuing a Successful Career in CS + Technology | Jul. 2021 |
| | Hacking 4 Community | |
| | 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