

# LUCY HAO

(+1) 403-401-3096  
lhao03@student.ubc.ca  
<https://lhao03.github.io>

EDUCATION	<b>University of British Columbia</b> <i>B.Sc. in Combined Computer Science and Chemistry</i> <ul style="list-style-type: none"><li>GPA: 80%</li></ul>	Vancouver, Canada 2019 - 2025 ( <i>expected</i> )
PUBLICATIONS	1. Chen, Y., <b>Hao, L.</b> , Zou, V.Z., Hollander, Z., Ng, R.T., Isaac, K.V. Automated medical chart review for breast cancer outcomes research: a novel natural language processing extraction system. <i>BMC Med Res Methodol</i> , 2022.	
RESEARCH EXPERIENCE	<b>Department of Chemistry</b>   Vancouver, British Columbia <ul style="list-style-type: none"><li>Researching the application of Large Language Models (LLMs) and automated planners on generating workflows for self-driving labs.</li><li>Advisor: Prof. Jason E. Hein</li></ul> <b>PROOF Centre</b>   Vancouver, British Columbia <ul style="list-style-type: none"><li>Utilized pre-trained word embeddings, uniquely generated regular expressions and OCR correction algorithm to extract information from structured electronic health records, achieving a validation set accuracy of <b>91%</b> with minimal training data.</li><li>Performed statistical analysis on results, and helped write the Methods, Results and Discussion sections of published paper.</li><li>Advisors: Prof. Raymond T. Ng, Prof. Dr. Kathryn Isaac, Dr. Zsuzsanna Hollander</li></ul>	2024.05 - curr.  2021.01 - 2021.05
INDUSTRY EXPERIENCE	<b>Capital One</b>   New York City, New York <ul style="list-style-type: none"><li>Piloted the use of AWS Device Farm, creating end-to-end tests for Mobile App Verification for the Capital One app and website.</li><li>Found and relayed five pain points of AWS Device Farm to upper level technical executives.</li></ul> <b>Microsoft</b>   Vancouver, British Columbia <ul style="list-style-type: none"><li>Aided in development of features for internally requested sandbox tool for the Microsoft Graph API.</li><li>Helped troubleshoot bugs in browser-based sandbox tool and Microsoft Teams based sandbox tool, documenting fixes and possible solutions for unsolved bugs.</li></ul>	2022.06 - 2022.08  2021.05 - 2021.08
TEACHING EXPERIENCE	<ul style="list-style-type: none"><li><b>CPSC 110</b>, Systematic Program Design</li><li><b>CPSC 110</b>, Systematic Program Design</li><li><b>CPSC 210</b>, Software Construction</li><li><b>CPSC 210</b>, Software Construction</li></ul>	2023.11 2023.11 2023.11 2023.11
OTHER	<ul style="list-style-type: none"><li><b>Dry Lab Co-Lead and Wiki Lead</b>, UBC iGEM</li><li><b>Director of Marketing and Technology</b>, StarHacks</li><li><b>Director of Marketing</b>, nwPlus</li><li><b>Mentor</b>, nwPlus (connect-f)</li></ul>	2023.11 - curr. 2020.09 - 2022.01 2021.08 - 2022.03 2020.07 - 2021.04
PRESENTATIONS	<ul style="list-style-type: none"><li><b>AI-Driven Workflow Planning for Robotic Arms in Self-Driving Labs</b>, Presented at Accelerate Conference: Challenge meets solution</li></ul>	