

VICTORIA CHUI

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EDUCATION

University of Toronto	Toronto, ON
PhD in Information	Sep. 2023 - Present
<ul style="list-style-type: none">Studying human-centered algorithm design to assist AI decision-making tools in healthcare	
University of Toronto	Toronto, ON
Master of Information - MI (CGPA 4.0/4.0)	2023
<ul style="list-style-type: none">Thesis: "Towards Human-Centered Models in Healthcare: Development of Practical Applications for Surgical Wards"Selected coursework: data analytics, topic modelling, statistics, data visualization, research methods, machine learning, human values in data science	
McGill University	Montréal, QC
Honours Bachelor of Science in Biochemistry – HBSc (CGPA 3.77/4.0)	2021
<ul style="list-style-type: none">Selected coursework: biotechnology, probability and statistics, immunology, anatomy and physiology	

RESEARCH EXPERIENCE

University of Toronto	Toronto, ON
PhD Thesis – Faculty of Information	Sep. 2023 - Present
<ul style="list-style-type: none">Developing a Canadian diabetes risk prediction model (project funded by CIFAR - \$900,000 over 3 years)Analyzing US patient data to investigate costs for hospital infrastructure and patients	
University of Toronto	Toronto, ON
Master's Thesis – Faculty of Information	Dec. 2021 - May 2023
<ul style="list-style-type: none">Developed time series models to predict daily surgical case volumesExplored the intersection of data science and healthcare for human-centered strategies	
University of Toronto	Toronto, ON
Research Assistant – Faculty of Information	Sep. 2022 - March 2023
<ul style="list-style-type: none">Analyzed surgical site infection data using clustering and predictive methods	
McGill University	Montréal, QC
Undergraduate Honours Thesis – Department of Biochemistry	July 2020 - Dec. 2021
<ul style="list-style-type: none">Developed molecular dynamics simulations to examine IFIT protein and nonstandard-RNA interactions	

PUBLICATIONS

- Victoria Chui**, Jessica Pater, Tammy Toscos, and Shion Guha. 2023. Applying Human-Centered Data Science to Healthcare: Hyperlocal Modeling of COVID-19 Hospitalizations. In *Companion Proceedings of the 2023 ACM International Conference on Supporting Group Work (GROUP '23)*. Association for Computing Machinery, New York, NY, USA, 24–26. <https://doi.org/10.1145/3565967.3570979>

TEACHING ASSISTANT EXPERIENCE

University of Toronto	Toronto, ON
INF2178 – Experimental Design for Data Science (140 students)	Winter 2024
<ul style="list-style-type: none">Spearheading syllabus developmentLeading 1 tutorial per week, 1 x 1 hour, across 10 weeksAnswering student concerns via email/Quercus/office hoursGrading student assignments and projects	

CCT202 – Human-Machine Communication (65 students)	Fall 2023
<ul style="list-style-type: none"> • Marking weekly discussion responses and one major assignment (15% of grade) • Invigilating examinations • Responding to student queries via email/Quercus 	
INF1339 – Introduction to Computational Thinking (150 students across 2 sections)	Fall 2023
<ul style="list-style-type: none"> • Leading 2 tutorials per week, 2 x 1.5 hours, across 10 weeks <ul style="list-style-type: none"> ◦ Teaching key concepts (logic, abstraction, modulation) and leading formative assessments • Responding to student queries in class and via email/Quercus/office hours • Grading student assignments and projects 	

COMMUNITY OUTREACH

University Health Network – Toronto Western Hospital (TWH)	Toronto, ON
Clinical Administrative Hospital Volunteer	Sep. 2023 – Present
<ul style="list-style-type: none"> • Performing administrative duties and assisting patients at the TWH Neurology Clinic 	
Faculty of Information, University of Toronto	Toronto, ON
Faculty Search Committee Member	Sep. 2022 – July 2023
<ul style="list-style-type: none"> • Assisted the search committees for four full-time teaching-stream faculty members at the Faculty of Information as the student representative • Participated in shortlisting and interview rounds • Collaborated on job posting descriptions for four different full-time teaching-stream positions 	

AWARDS

Faculty of Information Data Science Hackathon – First Place Winner	March 2023
<ul style="list-style-type: none"> • In partnership with Service Canada, Integrity branch • Developed an algorithm and interface to detect fraud from (falsified) family benefit data 	
First-Class Honours Degree (Bachelor of Science)	June 2021
<ul style="list-style-type: none"> • Issued by McGill University to honours degree recipients with a CGPA over 3.5 	
Faculty of Science Scholarship	Sep. 2018
<ul style="list-style-type: none"> • Issued by the McGill University Faculty of Science to students with a CGPA in the top 5% 	
Dean's Honour List	Sep. 2018
<ul style="list-style-type: none"> • Issued by the McGill University Faculty of Science to students with a CGPA in the top 10% 	
McGill Alma Mater Entrance Scholarship	Sep. 2017
<ul style="list-style-type: none"> • Issued by McGill University upon acceptance (\$5000) 	
University of Northern British Columbia Scholar (DECLINED)	Sep. 2016
<ul style="list-style-type: none"> • Full-ride scholarship issued to students at the top of their high school cohort (~\$20 000) 	