

# VICTORIA CHUI

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## EDUCATION

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

## RESEARCH EXPERIENCE

<b>University of Toronto</b>	<b>Toronto, ON</b>
PhD – Faculty of Information	2023-Present
<ul style="list-style-type: none"><li>Analyzing Canadian health data to deconstruct and improve risk assessment models for diabetes care</li><li>Developing an understanding of community trust regarding healthcare AI in the Peel Region, Ontario</li><li>Under the supervision of Dr. Shion Guha, and in partnership with the Dalla Lana School for Public Health</li></ul>	
Master's Thesis – Faculty of Information	2021-2023
<ul style="list-style-type: none"><li>Developed time series models to predict daily surgical case volumes</li><li>Explored the intersection of data science and healthcare to develop human-centered strategies in practice</li><li>Under the supervision of Dr. Shion Guha, and in partnership with Parkview Health, USA</li></ul>	
Research Assistant – Faculty of Information	2022-2023
<ul style="list-style-type: none"><li>Analyzed surgical site infection data using clustering and predictive methods</li><li>Scoped the landscape of Canadian child welfare resources and risk assessment models</li></ul>	
<b>McGill University</b>	<b>Montréal, QC</b>
Undergraduate Honours Thesis – Department of Biochemistry	2020-2021
<ul style="list-style-type: none"><li>Developed molecular dynamics simulations to examine IFIT protein and nonstandard-RNA interactions</li><li>Executed simulations on GROMACS software, using Compute Canada ARC systems</li></ul>	

## PUBLICATIONS

- Laura C Rosella, James Shaw, Shion Guha, Ibukun-Oluwa Omolade Abejirinde, Jennifer L Gibson, Lorraine Lipscombe, Kathy Kornas, Remziye Zaim, **Victoria Chui**, and Ijeoma Uchenna Itanyi. 2025. A participatory approach to deploy responsible artificial intelligence for diabetes prediction and prevention. *DIGITAL HEALTH* 11, (2025), 20552076251358540. <https://doi.org/10.1177/20552076251358541>
- Victoria Chui**, Kelly McConvey, Erina Seh-Young Moon, Maya Ghai, and Shion Guha. 2025. Towards Sustainable Community-Designed AI Systems in the Public Sector. In *ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS '25)*, July 22–25, 2025, Toronto, ON, Canada. ACM, New York, NY, USA, 4 pages. <https://doi.org/10.1145/3715335.3737683>

- **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>
- **Victoria Chui**. 2023. *Towards Human-Centered Models in Healthcare: Development of Practical Applications for Surgical Wards*. Master's Thesis. University of Toronto, Toronto, Canada.

## TEACHING

<b>Instructor – University of Toronto</b>	<b>Toronto, ON</b>
<ul style="list-style-type: none"> <li>• INF2178 – Experimental Design for Data Science (120 students)</li> <li>• INF1340 – Programming for Data Science (50 students)</li> </ul>	Winter 2026 Summer 2024, 2025
<b>Teaching Assistant – University of Toronto</b>	<b>Toronto, ON</b>
<ul style="list-style-type: none"> <li>• INF2178 – Experimental Design for Data Science (120 students)</li> <li>• INF1339 – Introduction to Computational Thinking (150 students)</li> <li>• CCT202 – Human-Machine Communication (65 students)</li> </ul>	Winter 2024, 2025 Fall 2023, 2024 Fall 2023
<b>Course Development – Centennial College</b>	<b>Toronto, ON</b>
<ul style="list-style-type: none"> <li>• DATA702 – Data Foundations</li> <li>• DATA707 – Qualitative Data</li> </ul>	Fall 2024 Fall 2024

## COMMUNITY OUTREACH

<b>Doctoral Student Association, Faculty of Information</b>	<b>Toronto, ON</b>
Vice-President	2024-2025
<ul style="list-style-type: none"> <li>• Representing and advocating for doctoral student needs at the iSchool, University of Toronto</li> </ul>	
<b>Student Volunteer (Conference) – DCMi 2024</b>	<b>Toronto, ON</b>
<b>University Health Network – Toronto Western Hospital (TWH)</b>	<b>Toronto, ON</b>
Clinical Administrative Hospital Volunteer	2023-2025
<ul style="list-style-type: none"> <li>• Performing administrative duties and assisting patients at the TWH Neurology Clinic</li> </ul>	
<b>Faculty of Information, University of Toronto</b>	<b>Toronto, ON</b>
Faculty Search Committee Member	2022-2023
<ul style="list-style-type: none"> <li>• Assisted search committees for four full-time teaching-stream faculty members at the Faculty of Information, as the student representative</li> <li>• Participated in shortlisting and interview rounds</li> <li>• Collaborated on job posting descriptions for four different full-time teaching-stream positions</li> </ul>	

## AWARDS

Doctoral Ontario Graduate Scholarship (OGS) - \$15 000	2025-2026
PhD Enhancement Award – Faculty of Information	2024
Faculty of Information Data Science Hackathon – First Place Winner	2023
First-Class Honours Degree (Bachelor of Science)	2021
<ul style="list-style-type: none"> <li>• Issued by McGill University for honours degree recipients with a CGPA over 3.5</li> </ul>	
University of Northern British Columbia Scholar Recognition [DECLINED]	2016

## CERTIFICATES

Course Design Certificate - University of Toronto	2024
<ul style="list-style-type: none"> <li>• Teaching certificate through the Teaching Assistants' Training Program</li> </ul>	