Sasha Robinson

CONTACT

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EDUCATION (B.A.SC)

McMaster University, Hamilton, ON — Winter 2026
GPA: 3.9 / 4.0 · *Honours Computer Sciences · Minor: Statistics*

HONOURS AND AWARDS

Dean's Honour List — 2022-2025

Residency @ The Clinic Innovation Incubator Program Selection, McMaster — Winter 2025

May @ Mac Web Design Research Project Selection, McMaster — Spring 2024

RESEARCH EXPERIENCE

The University of British Columbia, Vancouver, BC — Spring 2025 - present

Collaborating with Dr. Kelsey Allen **(University of British Columbia)**, Dr. Kerem Oktar **(Princeton University)**, Katie Collins **(Cambridge University)**, and Dr. Ilya Sucholutsky **(New York University)** to study the dangers of malicious AI systems by exploring their persuasive capabilities within a gamified setting.

- Leading the development of the interface using pygame (Python).
- Exploring and benchmarking spatial reasoning capabilities of modern LLMs.

McMaster University, Hamilton, ON — Winter 2025 - Summer 2025

Researched in the METRE Lab under Dr. Jonathan Cannon's supervision, where we were interested in creating universally accessible mobile software for rehabilitating walking gait delay in Parkinson's patients using machine learning algorithms. Our work was generously supported by **The Clinic Residency program at McMaster**.

- Responsible for supervising a group of 3 other undergraduate students, i.e. hosting meetings, allocating tasks, teaching software.
- Programmed a full-stack mobile application using Swift, including backend predictive models in Python.
- Worked directly with Parkinson's patients for software feedback.

McMaster University, Hamilton, ON — Spring 2024 - Summer 2025

Performed **funded** research in the Machine Teaching and Human Intelligence Research Group under Dr. Swati Mishra's supervision, where we built software for empowering creative, non-linear narrative design in data-driven storytelling using LLMs and graph solving algorithms.

- Programmed a full-stack web application using React, Flask (Python), and SQL.
- Conducted in-person, human studies with the interface for formative and summative results.
- Wrote a **first-author** research paper about our results; for submission to **ACM CHI 2026**.

TEACHING EXPERIENCE

Discrete Math, McMaster University, Hamilton, ON — Spring 2024

Teaching Assistant (~50 students)
Prepared and presented weekly tutorials covering topics such as introductory logic, set theory, basic data structures and algorithms, and number theory for students enrolled in COMPSCI 1DM3.

TECHNICAL SKILLS

Languages: Python, R, JavaScript, HTML, CSS, SQL (SQLite), Swift, C, C#
Libraries: Keras, Tensorflow, PyTorch, NumPy, Matplotlib, Pandas, Seaborn
Frameworks: Flask, Django, Node.js, Vue.js, Bootstrap, SwiftUI, JavaFX
Tools: Git, Github, Jupyter Notebook, Visual Studio Code, Firebase, Vercel, Linux, XCode