

EDUCATION	McGill University	Montréal, Canada
	<i>Honours Math and Computer Science (B.Sc.)</i>	2023-2026 (<i>expected</i>)
	<ul style="list-style-type: none"> Course Work: Functional Analysis, Differential Equations, Measure Theory, Topology, Probability Theory, Abstract Algebra, Graph Theory. 	
RESEARCH	Critical Valuations for the Multivariate Tutte Polynomial	
	<i>NSERC Undergraduate Student Research Awards</i>	2025.05 - 2025.08
	<ul style="list-style-type: none"> Supervisor: Professor Dmitry Jakobson. Numerically computed and analysed the critical and maximal weights for algebraic connectivity, Laplacian determinant, girth, and the multivariate Tutte polynomial on graphs. Characterised the critical and maximal valuations of the multivariate Tutte polynomial. 	
EXPERIENCE	McGill University Grader Montréal, Canada	2025.09 - 2025.12
	<ul style="list-style-type: none"> Assisted in providing feedback to student coursework in analysis. Summarised common mistakes among students and provided general guidance to the class. 	
	iGEM McGill Dry Lab Member Montréal, Canada	2023.11 - 2024.08
	<ul style="list-style-type: none"> Assisted in managing and coordinated tasks in a team of programmers. Developed software that generates strands for DNA computing as part of the Nucle.io project. Nominated for the Best Software Tool Award among 195 undergraduate teams. 	
	Marianopolis College Peer Tutor Montréal, Canada	2023.01 - 2023.05
	<ul style="list-style-type: none"> Provided personalised help in mathematics for peers in need. Created study plans for tutees to improve autonomously. 	
AWARDS AND HONORS	Marianopolis AI Club Executive Montréal, Canada	2021.08 - 2023.05
	<ul style="list-style-type: none"> Designed and planned lessons and graphics to aid the understanding of programming and machine learning concepts. Taught programming and machine learning lessons for a club of fifty people. Created an educational game for club members to learn and compete. 	
	Undergraduate Student Research Award NSERC \$8000	2025.05
	14th Place in North East Region ICPC NA East Division 2024	2024.09
	<ul style="list-style-type: none"> Solved programming challenges as a team. 	
	Wing Hing Chan Scholarships in Science McGill University \$1000	2024.09
	<ul style="list-style-type: none"> Outstanding academic performance in Math and Computer Science. 	
	Major Entrance Scholarship McGill University \$5000/Year	2024.09
	<ul style="list-style-type: none"> Academic excellence and demonstrated leadership. 	
	First Place MariHacks	2024.09
	<ul style="list-style-type: none"> Designed and created a puzzle game within 24 hours. 	

PROJECTS	Relic Reminders 2023.10 <ul style="list-style-type: none"> • Quality of life modification for a video game that includes additional indicators to improve the decision-making of over 10,000 players.
	Green Line Goes Up 2023.04 <ul style="list-style-type: none"> • Economic simulation game that creates emergent patterns from the behaviour of individual agents. • Explored, explained, and illustrated economic concepts through the evolving status of markets. • Demonstrated the role of government intervention in an economy through inflation and investment.
	Automatank 2022.04 <ul style="list-style-type: none"> • A battle simulation game consisting of tanks controlled by AI. • Allowed AI club members to demonstrate their learnings through competition.
RESEARCH INTERESTS	Functional Analysis, Partial Differential Equations, Spectral Theory, Riemannian Geometry.
WRITINGS	Digital Garden: Personal Repository for Mathematical Knowledge. Probability Task Paper: Proofs of Relevant Theorems from Class. Theory of Linear PDEs: Presentation Notes for Interest Group in Summer 2025.
SKILLS	Languages: Chinese, English. Programming: Java, Python, HTML, CSS, TypeScript.