

EDUCATION	McGill University <i>Honours Mathematics and Computer Science (B.Sc.)</i> GPA: 3.98/4.0	Montréal, Canada 2023.08 - 2026.05 (expected)
RESEARCH INTERESTS	Functional Analysis, Partial Differential Equations, Spectral Theory, Riemannian Geometry.	
RESEARCH EXPERIENCE	Critical Valuations for the Multivariate Tutte Polynomial <i>Supervisor: Professor Dmitry Jakobson</i> <ul style="list-style-type: none">Studied spectral graph theory, matroid theory, differential geometry, and spectral theory.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.	2025.05 - 2025.08
AWARDS AND HONORS	Undergraduate Student Research Award NSERC \$8950 14th Place in North East Region ICPC NA East Division 2024 <ul style="list-style-type: none">Solved programming challenges as a team. Wing Hing Chan Scholarships in Science McGill University \$1000 <ul style="list-style-type: none">Outstanding academic performance in Math and Computer Science. Dean's Honour List McGill University Major Entrance Scholarship McGill University \$5000/Year <ul style="list-style-type: none">Academic excellence and demonstrated leadership.	2025.05 2024.09 2024.09 2023.09 - 2026.05
ACADEMIC EXPERIENCE	Course Assistant for Measure Theory McGill University Montréal, Canada <ul style="list-style-type: none">Provided detailed written feedback on student assignments.Facilitated student learning through consultation and assignment-related inquiries.Addressed common conceptual errors and mistakes. Dry Lab Member iGEM McGill Montréal, Canada <ul style="list-style-type: none">Led architectural design and integrated components for the team's software for strand-displacement reaction-based DNA computing.Nominated for the Best Software Tool Award among 195 undergraduate teams. Peer Tutor Marianopolis College Montréal, Canada <ul style="list-style-type: none">Provided personalised help in mathematics for peers in need.Created study plans for tutees to improve autonomously. Executive Marianopolis AI Club Montréal, Canada <ul style="list-style-type: none">Taught programming and machine learning lessons to a club of fifty students.Created an educational game for club members to learn and compete.	2025.09 - 2025.12 2023.11 - 2024.08 2023.01 - 2023.05 2021.08 - 2023.05
SELECTED PROJECTS AND PRESENTATIONS	Digital Garden: Personal Repository for Mathematical Knowledge. PDEs Term Paper: Existence and Regularity of Solutions for the Dirichlet Problem. Probability Term Paper: Proofs of Relevant Theorems from Class. Theory of Linear PDEs: Presentation Notes for Interest Group in Summer 2025.	
SKILLS	Languages: English, Chinese. Programming: LaTeX, Java, Python, HTML, CSS, TypeScript. Course Work: Functional Analysis, Ordinary and Partial Differential Equations, Probability Theory, Measure Theory, General Topology, Algebraic Topology, Abstract Algebra, Linear Algebra, Graph Theory.	