Robbert Liu

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EDUCATION

PhD in Mathematics
University of Toronto, 2025–

MSc in Mathematics
Supervised by Michael Groechenig
University of Toronto, 2023–2024

Honours BSc with High Distinction
Math Specialist, Computer Science Major
University of Toronto, 2019–2023
Dean's List Scholar 2023, 2022, 2021, 2020

AWARDS AND GRANTS

Fields Undergraduate Summer Research Program, Fields Institute, 2022
The Galois OSOTF Award in Math, University of Toronto, 2022
The Coxeter Scholarship in Mathematics (OSOTF), University of Toronto, 2022

TEACHING EXPERIENCE

Teaching Assistant, University of Toronto
CSC165H1: Math. Reasoning and Expression, Winter 2021
MAT188H1: Linear Algebra, Fall 2021
MAT202H5: Intro to Discrete Math, Fall 2021
MAT202H5: Intro to Discrete Math, Winter 2022
MAT344H5: Intro to Combinatorics, Fall 2022
CSC363H5: Computability and Complexity, Winter 2023
MAT186H1: Calculus I, Fall 2023
MAT187H1: Calculus II, Winter 2024
MAT224H5: Linear Algebra II, Fall 2024
MAT186H1: Calculus I, Fall 2024
MAT187H1: Calculus II, Winter 2025
MAT1302H: Combinatorial Methods, Winter 2025

TALKS AND PRESENTATIONS

The Serre-Swan Theorem, Algebraic Topology Reading Course, UofT, 2022
Localic Topoi and Barr's Theorem, Topos Theory Reading Course, UofT, 2023
Model Theory for Metric Structures, Model Theory Reading Course, UofT, 2023
How An Enumerative Combinatorialist Might Solve a PDE, PDE Student Seminar, University of Toronto, 2023
From Electricity to Steam: A Gentle Introduction to Topos Theory, Graduate Student Seminar, UofT, 2024

PROGRAMMING

Python, Java, C, C#, Go, Unix/Linux, LaTeX

EC ACTIVITIES

UTMIST Infrastructure Developer
University of Toronto, 2019–2020

Mathematics Graduate Students' Association
Academic committee, Graduate Student Seminar organizer
University of Toronto, 2023–2024

A Mathematician's Anthology
Graduate student book club organizer
University of Toronto, 2023–2024