
EDUCATION

- 2026 Sep – Present Ph.D. in Mathematics and Statistics, **McGill University**, Montréal, Canada
 Advisors: Anush Tserunyan and Marcin Sabok
- 2022 Sep – 2026 May B.Sc. in Mathematics and Computer Science, **McGill University**, Montréal, Canada
 Cumulative GPA: 4.00. Dean's Honours List

RESEARCH

Publications

- 2023 May – 2023 Aug Zhaoshen Zhai. A saturated 1-system of curves on the surface of genus 3. *Geometriae Dedicata* **219** (2025), no. 49. [[arXiv](#), doi:[10.1007/s10711-025-01009-2](https://doi.org/10.1007/s10711-025-01009-2)]

Preprints

- 2025 May – 2025 Aug Zhaoshen Zhai. The Ribes-Zalesskii theorem via foldings and extensions. 2025+ [[arXiv](#)]

AWARDS & GRANTS

Grants

- 2026 May – 2028 May FRQ Grant 2008436 [doi:[10.69777/2008436](https://doi.org/10.69777/2008436)]
Interactions entre la théorie des modèles, des groupes et les problèmes de décision en informatique
 Amount: 40,000 CAD

Awards

- 2026 May Gowrisankaran Prize in Mathematics and Statistics
 Amount: 1,865 CAD
- 2025 Oct Sir Edward Beatty Memorial Scholarships in Mathematics
 Amount: 2,300 CAD
- 2025 May – 2025 Aug Kelisky Science Undergraduate Research Award
 Amount: 8,950 CAD
- 2024 Sep Herbert J. Brennen Scholarship
 Amount: 2,745 CAD
- 2024 May – 2024 Aug Leonard Katz Science Undergraduate Research Award
 Amount: 8,700 CAD
- 2023 Aug John V. Galley Scholarship
 Amount: 1,000 CAD
- 2023 May – 2023 Aug Rubin Gruber's Science Undergraduate Research Award
 Amount: 8,350 CAD

INVITED TALKS

Conference talks (non-plenary)

- 2024 Jan 6 Seminars in Undergraduate Mathematics in Montréal, Université du Québec à Montréal

Seminar talks

2025 Sep 23	Montréal Descriptive Dynamics and Combinatorics Seminar , McGill University, Montréal, Canada
2025 Sep 12	Binghamton University Math Grad Seminar , Binghamton University, New York, USA
2024 Oct 1	Montréal Descriptive Dynamics and Combinatorics Seminar , McGill University, Montréal, Canada
2023 Sep 27	McGill Geometric Group Theory Seminar , McGill University, Montréal, Canada

RESEARCH WORKSHOPS

2025 Feb 3 – 7	“Model Theory meets Geometric Group Theory” , University of Münster, Münster, Germany
----------------	---

EXPOSITORY WRITING

2024 May – 2024 Aug	Zhaoshen Zhai. <i>Quasi-treeings are treeable: a streamlined proof</i> . [arXiv] Undergraduate research project Supervisor: Professor Anush Tserunyan
2023 Jan – 2023 Apr	Zhaoshen Zhai. <i>Moduli spaces of Riemann surfaces</i> . [pdf] Directed Reading Program, McGill University Supervisor: Kaleb Ruscitti

MENTORSHIP

Undergraduates

2026 Jan – Present	Ilian Le Saulnier-Duprez , <i>A concrete manifestation of Gödel’s incompleteness theorem</i> Directed Reading Program, McGill University
2026 Jan – Present	Samuel Bridgeman , TBA. Directed Reading Program, McGill University

SERVICE

Reading group organization

2025 May – 2025 Aug	Zhaoshen Zhai. <i>Reading group in ergodic theory</i> , McGill University
2025 May – 2025 Aug	Kindness Chen , Zhaoshen Zhai . <i>Reading group in mathematical logic</i> , McGill University

Course/teaching assistant & grading

2026 Jan – 2026 Apr	Course assistant and grader for MATH451 Introduction to General Topology Instructor: Professor Anush Tserunyan , Winter 2026, McGill University
2026 Jan – 2026 Apr	Grader for MATH591 Model Theory Instructor: Professor Marcin Sabok , Winter 2026, McGill University
2025 Sep – 2025 Dec	Course assistant and grader for MATH318 Mathematical Logic Instructor: Professor Jérôme Fortier , Fall 2025, McGill University
2024 Sep – 2024 Dec	Grader for MATH318 Mathematical Logic Instructor: Professor Jérôme Fortier , Fall 2024, McGill University
2024 Sep – 2024 Dec	Grader for MATH254 Honours Analysis 1 Instructor: Professor Axel Hundemer , Fall 2024, McGill University
2024 Jan – 2024 Apr	Grader for MATH251 Honours Algebra 2 (linear algebra) Instructor: Professor Anush Tserunyan , Winter 2024, McGill University