

RESEARCH INTERESTS

Low-Dimensional Topology, Teichmüller Theory, Geometric Group Theory

EDUCATION

University of Utah <i>Exchange Visitor (Advisor: Mladen Bestvina)</i>	Jan – Apr 2023
University of Toronto <i>Ph.D, Mathematics (Advisor: Kasra Rafi)</i>	2022 – current
University of Toronto <i>M.Sc, Mathematics (Advisor: Kasra Rafi)</i>	2021 – 2022
University of Toronto <i>B.Sc, Mathematics Specialist (High Distinction)</i>	2017 – 2021

PUBLICATIONS AND PREPRINTS

Sigma-compactness of Morse boundary in Morse local-to-global groups and applications to stationary measures

(with Davide Spriano, Stefanie Zbinden)
arXiv:2407.18863.

Random walks on groups and superlinear divergent geodesics

(with Kunal Chawla, Inhyeok Choi, Kasra Rafi)
Ergodic Theory and Dynamical Systems. doi:10.1017/etds.2024.75

Equivalent topologies on the contracting boundary

Glasnik Matematički. Vol. 58(78)(2023), 75 - 83.

HONORS AND AWARDS

NSERC Canadian Graduate Scholarships - Doctoral Program (CGS-D) - CAD 120,000 over 36 months	2024–2026
City of Toronto Graduate Scholarship for Women in Mathematics - CAD 10,000	2024
Margaret Isobel Elliott Graduate Scholarship - CAD 4,000	2023
NSERC Michael Smith Foreign Study Supplement (MSFSS) - CAD 6,000	2023
Martin Shubik Graduate Award In Mathematics - CAD 8,900	2023
NSERC Canadian Graduate Scholarships - Master's Program (CGS-M) - CAD 17,500	2022
NSERC Undergraduate Student Research Awards (USRA) - CAD 6,000	2021
The Harry Boxen Memorial Scholarships In Mathematics - CAD 936	2019
Dean's List	2018,2019,2020
Later Life Learning Osof Award - CAD 1500	2018,2019

TALKS

Research Talk: Counting curves intersecting a measured foliation

Riemann Surfaces: Random, Flat, and Hyperbolic Geometry (Lightning Talk), Oberwolfach Sep, 2024

Research Talk: (Lack of) Stationary Measure on the Morse boundary

CMI-HIMR Summer School (Lightning Talk), Univ. of Bristol Jul, 2024

Expository Talk: CAT(0) Cube Complexes from Sageev's Construction

Riverside workshop on geometric group theory, UC Riverside May, 2024

Research Talk: Random walks on groups and superlinear divergent quasi-geodesics

Algebra, Geometry, and Topology Seminar, Heriot-Watt University	Jul, 2024
Spring Topology and Dynamical Systems Conference, Univ. of North Carolina	Mar, 2024
Dynamics Seminar, Univ. of Toronto	Jan, 2024
Graduate Student Seminar, Univ. of Toronto	Dec, 2023
Graduate Student Lecture Series, Univ. of Buffalo	Nov, 2023
Hyperbolic Lunch Seminar, Univ. of Toronto	Nov, 2023
Wasatch Topology Conference (Lightning Talk)	Oct, 2023

Research Talk: Generalizing the Gromov boundary

Xian Jiaotong-Liverpool University	May, 2023
Geometry, Topology, and Dynamics Grad Student Seminar, Univ. of Utah	Mar, 2023
Tech Topology Conference (Lightning Talk)	Dec, 2022
Geometric Topology Grad and Postdoc Seminar (Virtual)	Aug, 2022
Hyperbolic Lunch Seminar, Univ. of Toronto	Jul, 2022

TEACHING EXPERIENCE

Mentor 2024

Directed Reading Program - University of Toronto

- Topic: Introduction to geometric group theory
- Students: Sofia-Maria Bilinska, Summer Sun, Howard Xiao, Jimmy Xu

Mentor 2023

Reading Course - University of Toronto

- Topic: Hyperbolic Geometry (with Kasra Rafi)
- Students: James Bona-Landry, Diba Heydari, Petar Jovasevic, Summer Sun, Charles Swaney

Course Instructor 2024 – Current

University of Toronto

MAT136: Integral Calculus Summer 2024, Fall 2024

Teaching Assistant 2019 – Current

University of Toronto

MAT199: Aha! Mathematical Discovery and Creative Problem Solving Winter 2024

MAT157: Analysis I Fall 2023, Winter 2024

MAT224: Linear Algebra II Summer 2023

MAT332: Introduction to Graph Theory Fall 2022

MAT133: Calculus and Linear Algebra for Commerce Summer 2022

MAT315: Introduction to Number Theory Fall 2021, Winter 2022

MAT137: Calculus with Proofs Winter 2021

Math Learning Center Fall 2021, Winter 2022, Fall 2022

MAT136: Integral Calculus Winter 2020, Winter 2021

MAT135: Differential Calculus Fall 2019, Fall 2020

Counselor Summer 2017, 2018

Ross Mathematics Program

SERVICE

Co-organizer - GT GAPS <i>Geometric Topology Grad and Postdoc Seminar</i>	2023 - present
Co-chair - Bird's Eye Conference <i>Birds Eye Conference (Topology and Geometry Session)</i>	2024 University of Toronto
Co-organizer - WiM <i>Women in Math</i>	2023 - present University of Toronto
Academic Committee - MGSA <i>Mathematics Graduate Students Association</i>	2023 - 2024 University of Toronto
Mentor - Math Mentorship Program <i>Association of Women in Math</i>	2021 University of Toronto
Vice President Communication - MU <i>Math Union Toronto</i>	2020 University of Toronto
Social Officer - MU <i>Math Union Toronto</i>	2019 University of Toronto