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Education:

Master of Science - Mathematics and Statistics (Thesis)   (expected May 2023)
McGill University - Supervisor: Professor Mikaël Pichot

Bachelor of Science - Honours Mathematics   January 2022
McGill University - with *First Class Honours*

Research interests:

Geometric group theory, measured group theory, combinatorics

Awards:

NSERC - Canada Graduate Scholarships - Master's award   January 2022
Title: *Extending group actions on trees*
Supervisor: Professor Mikaël Pichot

NSERC - Undergraduate Student Research Award   Summer 2020
Title: *Extensions of geometric group actions*
Supervisor: Professor Mikaël Pichot

FRQNT - Suppléments à la bourse BPC du CRSNG   Summer 2020

Papers:

Alternating-sum statistics for certain sets of integers, with Marcel K. Goh. Submitted for publication. arXiv preprint 2206.12535 (2022), 12 pp. [pdf]

The lattice of arithmetic progressions, with Marcel K. Goh and Jad Hamdan. *Australasion Journal of Combinatorics* **84**(3), (2022), 357-374. [pdf]

Reports & projects:

McGill directed reading program, report   January 2020
Title: *Expository paper on the fundamental group*
Undergraduate research project   Summer 2019
Title: *The Chebyshev-Sylvester approach to the prime number distribution*
Supervisor: Professor Gantumur Tsogtgerel

Conferences & seminars attended:

Canadian Mathematical Society - Summer Meeting   July 2022
McGill Geometric Group Theory Seminar   Winter 2022
Geometric group theory without boundaries II   June 2021

Geometric group theory without boundaries   July 2020
Seminars in Undergraduate Mathematics in Montreal   January 2019
Canadian Undergraduate Mathematics Conference   August 2018

Graduate coursework:

Measured Group Theory, Mikaël Pichot   2022
Lie Groups & Representations, Joel Kamnitzer   2022
Geometric Group Theory, Daniel Wise   2022
Ergodic Theory and Groups, Anush Tserunyan   2022
Geometry & Topology 1, Daniel Wise   2021
Intro to Functional Analysis, Gantumur Tsogtgerel   2021
Higher Algebra 2, Patrick Allen   2021
Higher Algebra 1, Mikaël Pichot   2020

Tutoring & mentoring:

McGill directed reading program, Bass-Serre theory   Winter 2022
Math tutor in Dawson College SHS program   Fall 2022
McGill Math Help Desk   Winter 2020
Math tutor for high-school and Cégep students   2017-2021

Miscellaneous:

Vice-President of Social Affairs, SUMS McGill   2021
Vice-President of Communications, SUMS McGill   2020