Louis Meunier

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EXPERIENCES

Undergraduate Course Assistant

McGill University - Funded by TEAM   Sep '24 - Present

- Prepared and graded assignments for MATH326/376, Nonlinear Dynamics and Chaos (Fall 2024, 2025) for Prof. Antony Humphries, MATH255, Honours Analysis 2 (Winter 2025) for Prof. Jerome Vétois
- Tutor at the Math Department Helpdesk for 5 hours a week, offering drop-in help for various courses from the 100 to 400 level

Research Intern

McGill University - Funded by SURA   May '25 - Present

- Summer research in probability and geometry theory under the supervision of Prof. Linan Chen
- Worked on extending results on the changes in geometry of random fields under diffeomorphisms known for 2 dimensions to general dimensions

Research Intern

McGill University - Funded by SURA

Research summary   May - Dec '24

- Summer research in theoretical numerical analysis under the supervision of Prof. Jean-Christophe Nave
- Worked on formalizing and characterizing discrete conservation laws arising from finite difference discretizations of partial differential equations

VP - Events

McGill Diversity in Math   Sep '22 - Present

- Organize events to promote diversity in mathematics at McGill University, ranging from workshops to study sessions to speaker panels
- Membership includes around 230 undergraduate students and 20 graduate students
- Frequently communicate with McGill Math Department professors to enact meaningful changes for students, new opportunities, and promote inclusivity
- Previously served as First-Year Representative; President

PROJECTS   louismeunier.net/math

Various personal math and coding projects, on topics such stochastic differential equations, variational calculus, symmetry methods for PDEs, geometric visualizations, data analysis, etc.. Made using Mathematica, Julia, R, Python.

EDUCATION

2022 - present	BSc. Honours Mathematics, **McGill University**	(GPA: 3.97)

Academic Awards: **Dean's Honour List** (2022, 2024), **Tomlinson Engagement Award for Mentoring** (2024, 2025), **Science Undergraduate Research Award** (2024, 2025)

OTHER EXPERIENCES

VP Academic of McGill Society of Undergraduate Math Students (2024 - 2025)
World Cube Association Delegate (2023 - Present)

SKILLS

Programming: LaTeX, Typst, Mathematica, R, Julia, Python, Svelte, React, Next.js, Firebase, Go
Languages: English, French