

Madelyn Shaffer

✉ madelynshaffer833@gmail.com ☎ +1(215)370-2003

Education

McGill University - Montréal, QC, CA

Aug 2022- Dec 2025

BA: Major Conc. in Mathematics, Minor Conc. in Supplementary Mathematics and in Computer Science

- GPA: 3.98
- **Coursework:** Partial Differential Equations, Dynamical Systems, Numerical Methods

Methacton High School -Eagleville, PA, USA

Aug 2018-Jun 2022

- GPA: 4.0

Experience

Au Pair

Paris, France

Privately Employed

Mar 2026- Jun 2026

- Lived with and looked after two children for a family living in Paris, France.
- Completed housework, cooked meals, and helped the kids with homework as well as arranging extracurricular engaging STEM activities such as math practice sheets and science experiments.
- Accompanied the kids to after-school activities around the city.

Tutor

Montréal, QC

Liberty Tutoring - libertytutoring.ca 

October 2025 – Feb 2026

- Tutored students one-on-one (virtually and in-person) in CEGEP and university level Calculus and Physics.

Tutor, Content creator and digitizer

Bryn Mawr, PA

MJ Test Prep - mjtestprep.com 

May 2025 – Feb 2026

- Worked as a teacher during the summer and winter SAT bootcamps (one-week long intensive preparatory course for high-school students taking the SAT)
- Tutored select students one-on-one
- Worked on content production and digitization using LaTeX.

Studio Technician, Teacher

Montréal, QC

Atelier Cône 10 - cone10.ca 

Mar 2024 – Nov 2025

- Cleaned, recycled clay, loaded and fired kilns, organized works done in classes, and more.
- Taught *Introduction au tournage* (Introduction to Wheel Throwing) classes (in French and English).
- Taught 4-week *Bases de tournage* (Throwing basics) classes (in French and English)
- Selling personal pieces in the gallery.

Head Monitor: Exploring the World of STEM Summer Program

Montréal, QC

McGill University- School of Continuing Studies

Jul 2024

- Helped organize a summer program of 95 high-school students visiting McGill University from the United States and Mexico.
- Liaised with program head and other monitors to plan activities, schedule events, and manage timing throughout the program.
- Facilitated daily outings with a small group of students.

Assistant Teacher

Philadelphia, PA

Project HOME- projecthome.org 

Jul 2023 – Aug 2023

- Provided in-classroom support for the 3-4th grade class during the Summer Learning Program.
- Assisted classroom management, collaborated on planning and executed lessons with the Lead Teacher.

Barista

Collegeville, PA

Starbucks

May 2021 – Aug 2022

- Worked a variety of different roles during a shift (POS, bar, oven, restock, etc), and collaborated with other employees seamlessly.
- Understood the workings of running the store, and identified and prioritized tasks efficiently
- Voted employee of the quarter in Fall 2021

Tutor

Self-Employed

Eagleville, PA

Sep 2020 - present

- Tutored students found through personal connections in a variety of subjects including: Algebra, Geometry, Pre-Calculus, Trigonometry, Calculus I & II, AP Calculus AB, Biology (high school and AP level), Chemistry (high school level), Physics (high school and university level), French, SAT (Scholastic Aptitude Test) reading and math sections.

Technical Skills

- **Languages:** English (native), French (C1), and German (B1)
- **Coding Languages and Technologies:** Python, Java, C, R, LaTeX, MATLAB, and Git

Projects

Majors Project Course

McGill University

Fall 2025 - present

- Spent the semester modeling two-phase fluid flow numerically under the supervision of Professor Jean-Christophe Nave by combining numerical methods for the level-set equation with those of the Navier-Stokes equations.
- Still working on research with this professor virtually, with hopes to complete a well-rounded project that can be published.

Directed Reading Program

McGill University

Spring 2024

- Partnered with a Mathematics Graduate student on a weekly basis to study combinatorial game theory.
- Final report to be posted math.mcgill.ca/gsams/drp/ 

McHacks Hackathon: Campus Critics

McGill University

January 2023

- Developed a website with two other students that took in live data to rate meals served in McGill dining halls.
- Parsed public files to create a database of meal offerings and worked on the backend using Python to handle input data from the website with the database.

Awards and Scholarships

Hope Barrington Memorial Scholarship

Friends of McGill

August 2024

- Monetary award to contribute to undergraduate tuition costs. Received for outstanding academic achievement.

Dean's Honours List

McGill University

April 2023 - present

- Award given to the top 10% of students in their faculty based on cumulative GPA.

James McGill Scholarship

McGill University

August 2022 - present

- Received recurring yearly scholarship to contribute towards undergraduate tuition costs.
- This scholarship was received for the 2022-2023, 2023-2024, and 2024-2025 academic years and is expected to be renewed for the 2025-2026 academic year.

American Mathematics Competition

Methacton High School

Fall 2021

- Received highest score at Methacton High School in the Fall 2021 AMC.

Extracurricular Activities

Diversity in Math, McGill

May 2023 - present

Co-President, Event Coordinator - diversityinmath.ssmu.ca 

- *Diversity in Math* is a club at McGill University that aims to support diversity and inclusion in Mathematics and academia as well as cultivate recreational interest in Mathematics.
- Events organized: Mathematical Crochet and Knitting, Imposter Syndrome Workshop, Undergraduate Research Panel, Math-Life Balance Workshop, etc.