

Samy Lahlou Kamal

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Education

August 2022	McGill University	Montréal, Canada
– present	Bachelor of Science - Honours Mathematics. GPA: 3.81/4.0	
September 2015	Lycée Lyautey	Casablanca, Morocco
– June 2022	French Baccalaureate with High Honors (Mention Très Bien). Specialities: Mathematics & Computer Science Options: Expert Mathematics & Music	

Research Experience

May 2025	Research Project on Special Values of L-functions
– present	Supervisor: Professor Henri Darmon (McGill University) <ul style="list-style-type: none">○ Currently working on the history of L-functions (reading the original books and papers), and their special values.○ Presented my work in the USRA Number Theory seminar.○ Started writing an expository paper on the detailed history of L-functions and the mathematicians that contributed to that subject (L. Euler, P.L. Dirichlet, B. Riemann, R. Dedekind, E. Hecke, ...): [pdf (unfinished)]○ Funded by the NSERC (Natural Sciences and Engineering Research Council of Canada).
May 2024	Research Project on the Ergodic Theorems
– August 2024	Supervisor: Professor Anush Tserunyan (McGill University) <ul style="list-style-type: none">○ Studied Measured Group Theory with applications to the Ergodic Theorems.○ Wrote an expository paper on the ergodic theorems with a focus on Pr. Tserunyan's new proof of the Birkhoff Ergodic Theorem: [pdf]○ This project was part of the Honours Research Project class MATH 470.
January 2024	Directed Reading Program on p-adic Numbers
– April 2024	Supervisor: Doctoral student Hazem Hassan (McGill University) <ul style="list-style-type: none">○ Studied p-adic numbers and p-adic Zeta-Functions by reading the book <i>p-adic Numbers, p-adic Analysis, and Zeta-Functions</i> by Neal Koblitz.○ Presented my learnings in front the other Directed Reading Program students.○ Wrote a report presenting p-adic numbers, their construction and p-adic interpolation.

Professional Experience

September 2025	Teaching Assistant for the course History & Philosophy of Mathematics
– present	<i>McGill University, Montréal, QC</i> Instructor: Professor Henri Darmon, Course Code: MATH 338, 135 students <ul style="list-style-type: none">○ Conducted tutorial sessions (three hours a week) and exam review sessions to go over the course content, additional content, and answer students' questions.○ Wrote a suitable set of notes based on the students' questions to complete the resources available to the students.○ Planned one-on-one meetings with students who wanted to.
January 2024	Grader for the course Discrete Structures
– April 2024	<i>McGill University, Montréal, QC</i> Instructor: Mr. Jeremy Macdonald, Course Code: MATH 240, 365 students <ul style="list-style-type: none">○ Graded assignments (one every two weeks) for the course Discrete Structures.

- May 2023 **Tutor in Mathematics**
 September 2024 *McGill University, Montréal, QC*
 - Planning tutoring sessions (private or in group) for 1st year students in Mathematics.

June 2024 **Busboy**
 – present *Cirque Eloize, Montréal, QC*
 - Supported bartenders during large events by restocking beverages, supplies, and cleaning.

May 2024 **Busboy**
 – August 2024 *Pizzeria Moretti Griffintown, Montréal, QC*
 - Supported servers by cleaning tables, resetting place settings, refilling water and supplies, and maintaining clean dining environment.

Projects

- January 2025 **Expository Paper on the Divergence of the Harmonic Series**
 - Wrote a self-contained paper presenting the importance of rigor in mathematics through the detailed study of the divergence of the Harmonic Series: [\[pdf\]](#)

December 2024 **Published Historical Article on Fourier Analysis**
 - Researched on the origins and impacts of Fourier analysis on modern mathematics through the original works of the great mathematicians: J. Fourier, P.L. Dirichlet, B. Riemann, G. Cantor.
 - Co-authored (along with Nisrine Sqalli) a historical paper presenting our findings: [\[pdf\]](#)
 - Published a condensed version in the Delta Epsilon journal: [\[pdf\]](#)

December 2024 **Personal Website**

- present ○ Coded a personal website by learning and using HTML and CSS: [\[samylahlou.com\]](#)
- Post regularly my personal solutions to textbook exercises, articles that I write and reviews of textbooks and books related to mathematics.

Awards

NSERC Undergraduate Student Research Award – \$8950

Coding Skills

- | Programming Languages | Markup Languages |
|-----------------------|-----------------------------------|
| ○ Python | ○ Assembly |
| ○ Java | ○ SQL |
| ○ C | ○ MATLAB |
| ○ Bash | ○ SageMath |
| | ○ L ^A T _E X |
| | ○ HTML |
| | ○ CSS |

Languages

English (Fluent) French (Native) Arabic (Native)