

Louis-Simon Cyr

Ph.D. Student in Mathematics

Department of Mathematics, University of Southern California

lcyr@usc.edu

Los Angeles, California, USA

Education

- 2025–2030 **Ph.D. in Mathematics** (expected 2030), University of Southern California, Los Angeles, California, USA.
Adviser: Kyler Siegel.
- 2023–2025 **M.Sc. in Mathematics**, Université du Québec à Montréal, Montréal, Québec, Canada.
Thesis: *Quelques considérations sur le faisceau des fonctions J -holomorphes*.
Adviser: Steven Lu.
- 2020–2023 **B.Sc. in Mathematics**, Université de Montréal, Montréal, Québec, Canada.

Grants, Awards, and Fellowships

- 2024–2025 **Canada Graduate Scholarship - Master's (CGS M)**, Natural Sciences and Engineering Research Council of Canada (NSERC).
- 2022, 2023 **Undergraduate Student Research Award (USRA)**, Natural Sciences and Engineering Research Council of Canada (NSERC), awarded twice.

Talks and Presentations

- Oct. 2025 “Cohomology of Almost Complex Manifolds,” CIRGET Working Group, Université du Québec à Montréal, Montréal, Québec, Canada.
- July 2023 “Counting in Geometry and Schubert Calculus,” Mathematics Undergraduate Summer Seminar, Université de Montréal, Montréal, Québec, Canada.
- July 2022 “A Nice Bridge between Combinatorics, Dynamical Systems and Homology,” Mathematics Undergraduate Summer Seminar, Université de Montréal, Montréal, Québec, Canada.
- Jan. 2022 “Distribution Theory: The Absolute Value Is Everywhere Differentiable,” Seminars on Undergraduate Mathematics in Montreal (SUMM), Montréal, Québec, Canada.

Teaching and Mentoring

- Fall 2025 **Directed Reading Program Mentor**, University of Southern California. Mentee: Tommy Li.
- Winter 2024 **Directed Reading Program Mentor**, Université du Québec à Montréal. Mentee: Samuel Teufak.
- 2018–2020 **Mathematics Tutor**, Cégep de la Gaspésie et des Îles, Carleton-sur-Mer, Québec, Canada.
Supported students in calculus and linear algebra.

Service and Organization

- Fall 2026 **Co-organizer**, MAT 740 Topology Seminar, University of Southern California.
- 2026–2027 **Directed Reading Program Organizer**, University of Southern California.
- 2025 **Directed Reading Program Organizer**, Université du Québec à Montréal.
- 2023–2025 **Organizer**, Student Algebraic Geometry Seminar, Université du Québec à Montréal.

Languages and Technical Skills

- Languages French; English; Mandarin Chinese (HSK 4).
- Technical $\text{\LaTeX}$; Python; C; C++.