Sacha Goldman

Location
Toronto, Canada

Online

Email
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Website
sachagoldman.com

Github
SachaGoldman

Education

MSc in Mathematics University of Toronto — September 2023 - August 2024

Interested in algebraic topology, differential topology, and geometry.

BSc in Mathematics and Computer Science University of Toronto — September 2019 - June 2023

Focused on math and applications to computer science. Studying algebra, differential topology, algebraic topology, differential geometry, machine learning, and quantum computing.

Research

NSERC Undergraduate Summer Research Award The Torelli Lie Algebra — May 2023 - September 2023

Working with Alexander Kupers and Daniel Litt on researching the Torelli Lie algebra.

Independent Research Quantum Convolutional Neural Networks — Januray 2022 - November 2022

Worked Nathan Wiebe creating a quantum analogue of convolutional neural networks.

Scholarships

Raptors Foundation In-Course Scholarship New College — 2023

In Course Scholarship New College — 2022

In Course Scholarship New College — 2021

William and Shirley Reed Scholarship VSB — 2019

Teaching

MAT186 Teaching Assistant University of Toronto — September 2023 - December -2023

Running tutorials and grading for a differential and integral calculus course.

MAT367 Tutor University of Toronto — January 2023 - May -2023

Tutored a student in introductory differential topology.

CSC236 Teaching Assistant University of Toronto — September 2021 - December -2021

Running tutorials and grading for a course introducing mathematics for computer science.

Employment

Software Engineer Intern Apple — May 2022 - August 2022

Worked on the team architecting Apple Media Apps solving unique technical challenges.

Software Developer Intern SSENSE — May 2021 - August 2021

Worked on the iOS team facilitating a transition to the composable architecture and SwiftUI.

Technical Proficiencies

Sage, Lean, Python, C, LaTeX, Git, Shell