

Sacha Goldman

Location

Toronto, Canada

Online

Email

sacha@sachagoldman.com

Website

sachagoldman.com

Github

[SachaGoldman](https://github.com/SachaGoldman)

Education

MSc in Mathematics University of Toronto

September 2023 - August 2024

Interested in algebraic topology and differential geometry.

BSc in Mathematics and Computer Science University of Toronto

September 2019 - June 2023

3.86/4.0 GPA

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

Worked with Alexander Kupers and Daniel Litt to explore questions and concepts relating to the Torelli Lie algebra.

Research Quantum Convolutional Neural Networks

January 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

MAT367 Tutor University of Toronto

January 2023 - May -2023

Tutored a student taking MAT367, an introductory course in differential topology. Helped a student understand the tangent space, flows, vector bundles, differential forms, etc.

CSC236 Teaching Assistant University of Toronto

September 2021 - December -2021

Teaching assistant for CSC236, an introductory course to the mathematics underlying 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 bringing fresh ideas and advocating for a transition to the composable architecture and SwiftUI.

Technical Proficiencies

Lean, Python, C, Numpy, \LaTeX , Git, Shell