

# Liam Salt

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## Education

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### Simon Fraser University

2021–2023

M.Sc in Mathematics

- GPA 3.95, Graduated with Distinction
- Title of Thesis: New Proofs of the Kochen–Specker Theorem via Hadamard Matrices

### Queen's University

2016–2021

B.Sc (Honours) Major in Mathematics

- GPA 3.52

## Teaching Experience

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### TA, MATH 240: Algebra I: Linear Algebra (Simon Fraser)

Summer 2023

Contact hours included weekly tutorials, office hours. Other duties included grading, and assisting with invigilation.

### TA, MATH 260: Introduction to Ordinary Differential Equations (Simon Fraser)

Summer 2022

Contact hours included weekly tutorials, office hours. Other duties included grading, and assisting with invigilation.

### TA, MACM 203: Computing with Linear Algebra (Simon Fraser)

Spring 2023

Contact hours included weekly office hours. Other duties included grading, and assisting with invigilation.

### Algebra Workshop Teaching Assistant (Simon Fraser)

Fall 2021, Spring 2022, Fall 2022, Spring 2023

Regular duties consisted of running support sessions each week for introductory algebra courses in the department, as well as marking of assignments/exams, and invigilation.

### Ursell Teaching Assistant (Queen's)

2020–2021

Worked in the Math Help Centre at Queen's University as a tutor. Primarily assisted students in first year Calculus, Linear Algebra, and Statistics courses, but also upper-year courses.

### Tutoring

2018–Present

Various tutoring of students in Mathematics, Computer Science, Statistics, and Physics.

## Outreach & Conferences

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- Select Conferences Participated/Attended:
  - 2023 CANADAM Conference, Winnipeg. *June 2023*
  - 2022 Pacific Rim Mathematical Association Congress, Vancouver. *December 2022*
  - 2021 CMS Winter Meeting, Vancouver. *December 2021*
  - Canadian Statistics Student Conference, Ottawa. (CSSC) *Summer 2020*
  - Canadian Undergraduate Mathematics Conference, Kingston. *Summer 2019*
- Participated in the creation of Educational YouTube Videos under supervision of Professor Catherine Pfaff. Assisted with editing and presented videos to do with Introductory Calculus and Voronoi Diagrams.

## Skills

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### Languages

- English (Native Speaker)
- French (DELF B2)

## **Programming Languages**

- General: Python (NumPy, Pandas, PyTorch), Java , C++, SQL
- Scientific: MatLab, R, Maple, MAGMA, Macaulay2, Sage
- Web: HTML, CSS, JavaScript, PHP

## **Other Skills**

- Github
- Unix/Linux