

Jiajun Zhang

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EDUCATION

Bachelor of Science in Honors Applied Mathematics

McGill University

2022-Present

First Class Honors

Graduation Time: June 2026

UNDERGRADUATE COURSEWORK IN MATHEMATICS

- 4 semesters of calculus, 5 semesters of analysis, 2 semesters of linear algebra, 2 semesters of abstract algebra, 2 semesters of differential equations, 3 semesters of probability theory and statistics.
- Additionally a list of statistics oriented courses: Regression and ANOVA; Sampling Theory; Deep Learning and Neural Networks; and a list of additional mathematics topics that I am interested: Graph Theory; Numerical Analysis; Dynamical Systems

RESEARCH INTERESTS

My research interests are in Mathematical Statistics and Biostatistics. I am especially interested in the field of survival analysis. I would like to further study multi-states models; investigate survival analysis alongside with causal inference and Bayesian theory.

RESEARCH EXPERIENCE

Honors Research Project

McGill University

2025.2 - 2025.8

Research Title: Analyzing Incident and Prevalent Cohort Survival Data

Research Supervisor: Professor Masoud Asgharian

This research project consists the following paperwork:

- *An Introduction to Survival Analysis*
- *An Overview of Estimating Techniques in Length-Biased, Right-Censored Survival Data* (This paper is still under construction).

Undergraduate Independent Project (MATH 574: Dynamical Systems)

McGill University

2025.3 - 2025.4

Project Title: Introduction to Circular Restricted Three-Body Problem

Project Supervisor: Professor Antony R. Humphries

TEACHING AND MENTORING EXPERIENCE

Peer Tutoring Service – Tutor

McGill University

2023.9 - Present

Supervisor: Pavlina Pajot

- I am a personal tutor belonging to peer tutoring program offered by McGill university. The program shall match me with students request for tutoring.

Undergraduate Mathematics Helpdesk Mentor

McGill University

2024.9 - Present

Supervisor: Jerome Fortier

- I work as a math mentor at Burnside Building 911. This position is aimed for answering students' questions from their math courses which they are having troubles with.

Undergraduate Teaching Assistant

McGill University

- Teaching Assistant for MATH 254: Honors Analysis 1 2025.9 - 2025.12
 - Course Lecturer: Professor Pengfei Guan
- Teaching Assistant for MATH 248: Honors Vector Calculus 2024.9 - 2024.12
 - Course Lecturer: Professor Jean-Pierre Mutanguha
- Teaching Assistant for MATH 223: Linear Algebra 2023.9 - 2024.4
 - Course Lecturer: Professor Mikael Pichot

HONORS AND AWARDS

Tomlinson Undergraduate Award

2025.3 and 2024.10

McGill University

Awarded Two Times

Award nominated to undergraduate teaching assistants with excellent performance.

PAPERWORK

Jiajun, Z. (2025). *Analyzing Incident and Prevalent Cohort Survival Data*.

Jiajun, Z. (2025). *Introduction to Circular Restricted Three-Body Problem*.

Jiajun, Z. (2025). *An Overview of Estimating Techniques in Length-Biased, Right-Censored Survival Data*.
(Under construction)

PROJECTS

Math Resources Website

2024 - Present

- My own website: <https://johanssonrein.github.io/publications/>
- The goal of my website is to provide free math resources for undergraduate students and help them learn.

Personal Video Channel

2023 - Present

- My own video channel on Bilibili, a Chinese online video platform just like YouTube, where I upload videos and share mathematical knowledges and have 7K subscribers (at Augest 27th 2025).
- My account page is here

TECHNICAL SKILLS

LaTeX, Github, R, Python, Java

LANGUAGES

Mandarin (Native), English (Proficient), French (Intermediate)