

Jiajun Zhang

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EDUCATION

Bachelor of Science in Honors Applied Mathematics

McGill University

2022-Present

Graduation Time: June 2026

RESEARCH INTERESTS

My research interests are in Mathematical Statistics, Biostatistics and Differential Equations. I am especially interested in the field of survival analysis, mathematical finance and mathematical statistics.

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* (Under construction).

TEACHING AND MENTORING EXPERIENCE

Peer Tutoring Service – Tutor

McGill University

2023.9 - Present

- I am a tutor in 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

- 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. I commit 4 hours each week to help students.

Undergraduate Course Assistant

McGill University

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

HONORS AND AWARDS

Tomlinson Undergraduate Award

McGill University

2025.3 and 2024.10

Awarded Two Times

Undergraduate Projects

- **Deep Learning** 2025.9 - Present
Project Report: Under construction
Project Supervisor: Professor Masoud Asgharian
- **Regression and ANOVA** 2025.9 - Present
Project Report: Under construction
Project Supervisor: Professor Mehdi Dagdouh
- **Dynamical Systems** 2025.3 - 2025.4
Project Report: Introduction to Circular Restricted Three-Body Problem
Project Supervisor: Professor Antony R. Humphries

VOLUNTEERING EXPERIENCE

- Math & Stats Buddy Mentorship Program** 2025.9 - Present
McGill University
- McGill Robotics Club** 2023.9 - 2024.4
McGill University
Duty: Drone Group, Software Developer

EXTRACURRICULAR 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.
 - 7K subscribers (at August 27th 2025).
 - My account page is [here](#)

SKILLS

- **Technical Skills:** LaTeX, Github, R, Python, Java
- **Mathematical Skills:** Calculus, Real Analysis, Complex Analysis, Functional Analysis, Linear Algebra, Abstract Algebra, Differential Equations, Dynamical Systems, Probability Theory, Mathematical Statistics, Regression and ANOVA, Numerical Analysis.

LANGUAGES

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