

Ruo Ning (Nancy) Qiu

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EDUCATION

Undergraduate Student, University of Toronto

Sept 2017 - Present

Honours Bachelor of Science

- Mathematics & its Application in Teaching Specialist, Double Minor in Statistics and Computer Science
- Awards: Dean's List Scholar (Winter 18-20), University of Toronto Scholar, AP Scholar with Distinction

RESEARCH EXPERIENCE

MAT495 - Independent Study, University of Toronto

Fall 2020

- Conducted literature reviews on learning theories of mathematics
- Examined marking consistency of definition and written questions in a first year linear algebra course
- Supervisor: Professor [Jason Siefken](#)

Fields Undergraduate Summer Research Program, Fields Institute

July - Sept 2020

Research Assistant

- Analyzed time-series continuous blood glucose data to gain new insights into the dynamics
- Highlighted reproducible and irreproducible patterns in time traces of the glucose level data
- Supervisor: Professor [Andreas Hilfinger](#)

MAT399 - Research Opportunity Program, University of Toronto

Summer 2019

- Performed quantitative analysis on students' tests marks and reliability of past exams of a first year calculus course
- Analyzed students' conceptual understanding by conducting think-alouds and designed rubric to evaluate
- Supervisor: Professor [Sarah Mayes-Tang](#)

WORK EXPERIENCE

Teaching Assistant

Sept 2018 - Present

Department of Mathematics, University of Toronto

- Led weekly tutorials, marked exams, and held extra-help office hours & review sessions for exams of a first year linear algebra course (*MAT223 - Linear Algebra 1*)

Observation Teaching Assistant

Sept 2019 - May 2020, Spring 2021

Department of Mathematics, University of Toronto

- Provided formative peer observation of tutorials led by new TAs
- Instilled reflective practice with new TAs, and enhanced the likelihood that the TA would use the observation to make adjustments in their teaching

Remote Course Community Advisor, Work Study Program

Summer 2020

Department of Computer Science, University of Toronto

- Facilitated small-group discussions online with students to understand their experience in Computer Science courses offered in a remote format with the goal of informing community building efforts
- Constructed surveys, collected feedback, and performed data analysis on them to produce a teaching tips document for other teaching fellows

CONFERENCE

Canadian Undergraduate Mathematics Conference, Student Talks

- Testing Math Models Against Diabetes: Glucose Level Analysis (*Remote*) August 2020
- What makes a good calculus test?: a summer research project (*Queen's University*) July 2019

MathEd Forum Research Day, Poster Presentation

Jan 2020

- Measuring Conceptual Knowledge of First-Year Calculus (*Fields Institute*)

EXTRA-CURRICULAR ACTIVITIES AND VOLUNTEER EXPERIENCE

Trinity College Academic Support Services, Academic Peer Advisor

Sept 2020 - Present

Trinity College, University of Toronto

- Provided unofficial advice and assistance in the selection of courses and programs to junior students
- Shared academic resources and research opportunities in their subject of interest

Maximizing University Experience, Peer Mentor

Summer 2020

- Prepared materials for presenting online presentations that aimed to help incoming first-year students to understand university life and navigate their personal development paths
- Participated in learning strategies, mental health, and community involvement modules

Committee on Teaching & Learning, Undergraduate Representative

Sept 2018 - May 2019

Faculty of Arts & Sciences, University of Toronto

- Attended monthly meetings to provide feedback from the perspective of undergraduate students to help out the development of course curriculum and initiatives of the Faculty of Arts & Science

Trinity College Chinese Students Association, Co-President

Sept 2019 - May 2020

Trinity College, University of Toronto

- Managed budget, administered & oversaw events and initiatives to provide a platform for cultural dialogue, and directed the majority of the planning and organization of activities
- Past positions:
 - Operations Director Sept 2018 - May 2019
 - First Year Representative Sept 2017 - May 2018

SKILLS

Languages English, Mandarin (Native)

Programming Python, R, Java, \LaTeX