Contact Information

Graduate Student, Mathematics and Statistics (PMath) Email: joetran0@my.yorku.ca
Department of Mathematics and Statistics Citizenship: Canadian
York University

Education

BSc. Mathematics for Education (09/2020-04/2024)

- Specialized Honours
- York University, Faculty of Science, Department of Mathematics and Statistics
- Cumulative Grade Point Average: 7.90/9.00 (Major 1 Grade Point Average: 8.04/9.00)

MA Mathematics and Statistics (Pure Mathematics) (09/2024-Present)

• York University, Faculty of Graduate Studies, Department of Mathematics and Statistics

Research Interests

Algebra, Functional Analysis, Topology

Projects

- 1. Mathematical Analysis and Singular Perturbation Theory Applied to the Zika Virus Model, Summer Research Assistant, May 2024, J. Tran, W. A. Woldegerima (Supervisor)
- 2. Investigating Solutions to Cubic and Quartic Equations, Individual Reading Project, April 2024, J. Tran
- 3. A Project in Group Theory: Classifying All Finite Groups up to Isomorphism, Individual Project, December 2023, J. Tran
- 4. The Distance From Rank r Projection Operators to the Nilpotent Operators on \mathbb{C}^n , NSERC Undergraduate Summer Research Award, May 2023, J. Tran, M. Azeem, P. Skoufranis (Supervisor)
- 5. Exploring the Wonders of Projective Geometry, MATH 3052 Exploring Geometries Final Project, April 2023, J. Tran, G. Chen, J. S. Kang
- 6. Predicting Wordle Results, Mathematical Contest in Modelling, February 2023, J. Tran, G. Chen
- 7. Spirographs, MATH 3090 Computational Mathematics Final Project, November 2022, J. Tran, U. Pham, L. Xu, S. Dinh
- 8. Average Localization Error, MATH 3330 Regression Analysis Final Project, June 2022, J. Tran, L. Xu

Presentations & Conferences

- Guest Speaker From York University: Q&A and Turning DNA Into Numbers, Dr. Norman Bethune Collegiate Institute (Bethune Math Club), March 2024, 1 hour
- The Distance From Rank r Projection Operators to the Nilpotent Operators on \mathbb{C}^n , Faculty of Science Summer Research Conference 2023, August 2023, 10 min
- Fast-Slow Dynamics of the Zika Virus Model, WAW Lab Meeting July 30, 2024, July 2024, 30 min

Volunteer Service

Department of Mathematics and Statistics, York University

- President of Club Infinity (June 2024-Present)
- WAW Lab Meeting Organizer (June 2024-Present)
- Brunch at York Science (April 2024)
- Mathematics for Education Panelist at the Ask Me Anything: Mathematics and Statistics Programs Webinar Event (March 2024)
- Volunteer for the Fall Open House (November 2023)
- Member of the Tenure and Promotion Adjudicating Committee of the Pure Mathematics Section (September 2023-Present)
- Mathematics for Education Speaker at the Student Panel for Academic Orientation Day (August 2023)
- Event Coordinator for Club Infinity (May 2023-Present)
- Science Rendezvous (May 2023)
- Volunteer for the Spring Open House (March 2023)
- Note Taker for MATH 2131 Introduction to Statistics II (January 2022-April 2022)

Teaching Experience

Teaching Assistant at York University:

- Tutorial Leader for Mathematics I for the Biological and Health Sciences (MATH 1506) Summer 2024, Section A, Instructor: Carl Wolfe
- Tutorial Leader for Mathematics I for the Biological and Health Sciences (MATH 1506) Summer 2024, Section B, Instructor: Mohammed Reza Peyghami
- Tutor at the Math Help Center at York University Summer 2024
- Applied Calculus I (MATH 1013)
 - Winter 2024, Section M, Instructor: Gordon Craig
- Applied Calculus I (MATH 1013)
 - Winter 2024, Section N, Instructor: Saiful Zaman
- Applied Calculus II (MATH 1014)
 - Winter 2024, Section T, Instructor: Mina Shafadeh
- Linear Algebra II (MATH 2022)
 - Winter 2024, Section M. Instructor: Jessie Jihyeon Yang
- Applied Calculus I (MATH 1013)
 - Fall 2023, Sections A and D Instructor: Amenda Chow
- Applied Linear Algebra (MATH 1025)
 - Fall 2023, Section A Instructor: Safia Athar
- Tutorial Leader for Problems, Conjectures, and Proofs (MATH 1200)
 - Fall 2023, Section A Instructor: Sooyeong Kim
- Applied Calculus II (MATH 1014)
 - Summer 2023, Section B Instructor: Sirous Homayouni
- Linear Algebra I (MATH 1021)
 - Summer 2023, Section A Instructor: Sergio Garcia Balan
- Differential Calculus with Applications (MATH 1300)
 - Summer 2023, Section A Instructor: Md Abdur Rahman
- Business Mathematics I (MATH 1581)

Summer 2023, Section A Instructor: Philip Morenz

Courses Tutored:

- Introduction to Applied Statistics (MATH 2565) Summer 2023
- Advanced Functions 12 (MHF4U)
 Fall 2023, Fall 2022, Fall 2021
- Calculus and Vectors 12 (MCV4U) Winter 2023
- Data Management 12 (MDM4U) Fall 2023, Winter 2023, Summer 2022
- Functions 11 (MCR3U)
 Fall 2023, Summer 2023, Winter 2023, Fall 2022, Summer 2022, Winter 2022, Fall 2021
- Functions and Applications 11 (MCF3M) Fall 2022
- Principles of Mathematics 10 (MPM2D) Fall 2023, Summer 2022, Winter 2022
- $\bullet \ \ Physics \ 12 \ (SPH4U) \\ Fall \ 2023$
- Physics 11 (SPH3U)
 Fall 2023, Winter 2023, Fall 2022

Honours, Bursaries & Awards

- York University Undergrad Bursary (April 2024)
- York University Continuing Student Scholarship (February 2024)
- NSERC Undergraduate Student Research Award (May 2023-August 2023)
- Member of Dean's Honour Roll (April 2021, April 2023)
- Abe Karass/Donald Solitar Award (March 2023)
- Chair's Honour Roll in Mathematics and Statistics (November 2022)
- York University Continuing Student Scholarship (August 2022)
- York University Automatic Entrance Scholarship (August 2020)