

Foster (Yun-Fei) TENG

University of Toronto | foster.teng@mail.utoronto.ca

RESEARCH INTERESTS

Mathematical Physics, Partial Differential Equations, Algebra

EDUCATION

University of Toronto (cGPA: 3.85/4.0)

Fall 2022 - Present

Honours Bachelor of Science (HBSc), Physics and Mathematics Specialist

HONORS & AWARDS

NSERC Undergraduate Student Research Award (USRA) - CAD 7,500

Summer 2025

The Class of 3T0 and Associates Scholarship in Mathematics and Physics - CAD 1,910

2024

University of Toronto Dean's List

2023, 2024, 2025

RESEARCH EXPERIENCE

Visualization of Algebraic Structures(Advisor: Professor Camelia Karimianpour)

Summer 2025

Visualization of finite cyclic groups and their products, Cayley tables, Cayley diagrams, using MATLAB

Geodesic Trajectories on Hyperbolic Space(Advisor: Professor Wenyu Pan)

Winter 2025

Hyperbolic Geometry, Horocycles and Busemann Cocycles, Fuchsian Groups and Dirichlet Domains

ACADEMIC PROJECTS

The Least Action Principle for the Einstein Field Equation(Course Instructor: Professor Robert McCann)

Derivation of the Einstein Field Equation using variational calculus, including proving Palatini identity, Jacobi's formula, etc.

Winter 2025

Functions Grapher

In Course Python Project, programmed by Matplotlib

Fall 2022

MTA Data Analytics Case Competition

Sports Analytics, Python, CSV, & API, and Data Visualization using PowerBi

Fall 2022

TALKS

Visualization of Algebraic Structures

Summer Undergraduate Research Seminar, University of Toronto

Summer 2025

WORK EXPERIENCE

Videographer and Classroom Support Specialist

Record lectures, and troubleshoot computing or equipment issues in classrooms in UofT

Winter 2023

VOLUNTEER

University Events Voter

Attend regular advisory committee meeting and vote for important events in UofT

Fall 2022