Zhao-Ze Albert Hong

📍 Toronto, ON ✉ albert.hong@mail.utoronto.ca 🌐 zzalbert.com 🔗 linkedin.com/in/zzalbert/

EDUCATION

University of Toronto Toronto, ON
Honours BSc in Mathematics Specialist, Economics Minor, Philosophy Minor *Expected June 2027*
CGPA: 3.83/4.00   Major GPA: 4.00/4.00

Relevant Coursework: Logic, Analysis, Algebra, Microeconomic Theory, Machine Learning, Engineering Design
(Transferred from Engineering Science)

PROJECTS

Mathematics & Philosophy Blog *2025 – Present*
- Writes expository pieces on analysis, logic, and philosophical questions at zzalbert.com/articles.html

Canoe Training Machine Design Toronto, ON
Course Project (ESC102H1 Engineering Design) *January – April 2024*
- Collaborated with stakeholders to develop user-centered requirements
- Applied the FDCR model to design an interactive prototype for synchronization training
- Analyzed prototype data to evaluate design performance and identify strengths among proposed solutions

Matboard Bridge Design Toronto, ON
Course Project (CIV102H1 Structures and Materials) *November 2023*
- Designed and led the construction of a model bridge (776 g, built of matboard and contact cement)
- Simulated bridge performance using custom Python scripts to optimize design
- Achieved 70.4 kg load capacity; ranked 3rd of 22 teams, achieving great structural performance and efficiency

TOEFL Synonym Solver (Python) Toronto, ON
Course Project (ESC180H1 Introduction to Computer Programming) *January – April 2024*
- Built a synonym solver using custom co-occurrence matrices trained on a large text corpus
- Achieved 70% accuracy, demonstrating the effectiveness of classical NLP methods for semantic similarity

EXPERIENCE

Math Peer Tutor *2022 – 2025*
- Tutored peer students in calculus, focusing on conceptual understanding and problem-solving strategies

Math Club Lecturer Taipei, Taiwan
Taipei Municipal Chien Kuo High School *2021 – 2023*
- Organized and delivered talks on classical inequalities, ruler and compass constructions, math and art, etc.
- Helped students deepen understanding of proof techniques and logical reasoning

Summer Camp Teaching Assistant (Elementary Level) Toronto, ON
TDSB Chinese Summer Camp *July 2022*
- Supported language learning for children aged 4-10 and fostered engagement through games and lessons

ACADEMIC HONOURS & COMPETITIONS

Canadian Mathematical Olympiad	Top 80 in Canada	*2023*
Fermat and Hypatia Contests	Top 5% among contestants	*2022*

SKILLS

Coding Languages	Python, MATLAB, HTML, LaTeX, Processing.py
Data Tools	Google Sheets, Excel, SQL (basic proficiency)