

CHANG Yung-Hsuan

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Email: eiken59@icloud.com

[LinkedIn](#)

[Website](#)

Latest version: [my GitHub](#)

Education

National Yang Ming Chiao Tung University

Bachelor of Science in Applied Mathematics

Exchange Program, [École polytechnique](#), France

Hsinchu City, Taiwan

August 2022 – Present

September 2024 – June 2025

Honors

College of Science Dean Award

October 2025

Awarded by the College of Science, National Yang Ming Chiao Tung University for my study.

Outstanding Student Overseas Exchange Scholarship

June 2024

Awarded by National Yang Ming Chiao Tung University and the Ministry of Education for the year-long exchange at [École polytechnique](#).

Mathematics Presidential Award

September 2023 & February 2023

Awarded by the Department of Applied Mathematics, National Yang Ming Chiao Tung University for my study in mathematics in the first and the second semester of the 2022 Academic Year.

Honor Student

May 2023

Awarded by National Yang Ming Chiao Tung University for my study in the first semester of the 2022 Academic Year.

Skills

Programming Languages

C++ and Python.

Spoken Languages

Mandarin, English (CEFR C1), Japanese (JLPT N2), and French (roughly CEFR B1).

Projects

Study of Hitting Time and Probability

July 2025 – February 2026

for Random Walks in One and Two Dimensions

College Student Research Project, National Science and Technology Council

Studying the hitting time and probability of random walks in one and two dimensions under Prof. [CHINO Yuki](#). Funded by National Science and Technology Council with project number 114-2813-C-A49-139-M.

Credit Card Default Detection Using Machine Learning

February 2025 – June 2025

Group Project, [CSC_2S004.EP](#) - Machine Learning, [École polytechnique](#)

Developed a supervised machine learning pipeline to detect credit card default using real-world data with feature importance analysis and evaluation metrics. See this [repository](#).

Work
Experience

Chessbot Project: Cagnus

November 2024 – January 2025

Group Project, [CSC_2S001_EP](#) - Object-oriented Programming in C++, École polytechnique
Built a pure C++ chess engine without any non-standard libraries, achieving a final cross-match ranking of 9th out of 26 in the class. See this [repository](#).

Before Finance

June 2024 – July 2024

National Yang Ming Chiao Tung University Applied Mathematics [Summer Research Internship](#),
Department of Applied Mathematics, National Yang Ming Chiao Tung University
Discussed [topics](#) regarding gambler's ruin problem and martingales under Prof. CHINO Yuki.

Teaching Assistant

September 2025 – December 2025

Department of Applied Mathematics, National Yang Ming Chiao Tung University
Marking homework for [Probability Theory](#) under Prof. [FANG Xiang](#).

Camp Counselor

August 2025

Office of International Affairs, National Yang Ming Chiao Tung University
Collaborated with three other student staff members to plan and lead a two-week program for coding and language-immersion for Japanese university students, coordinating team efforts and structuring the students' schedules.

Private Tutor

September 2024 – June 2025

Taught and mentored an eighth-grade student in mathematics (UK system), focusing on conceptual understanding and application; creating handouts with Typst.

Teaching Assistant

September 2023 – December 2023 & February 2024 – June 2024

Department of Applied Mathematics, National Yang Ming Chiao Tung University
Conducted office hours and marked exams for [Calculus A \(I\)](#) and [Calculus A \(II\)](#) under Prof. CHINO Yuki.

Academic Tutor

October 2023 – November 2023 & April 2024 – May 2024

Center of Teaching and Learning Development, National Yang Ming Chiao Tung University
Tutored international students in Calculus A (I) and Calculus A (II), conducting weekly sessions and creating [handouts](#) in \LaTeX .

Private Tutor

April 2023 – June 2023

Helped a high school student prepare for the Advanced Subjects Test in Mathematics A, focusing on problem-solving and exam strategies.