

CHANG Yung-Hsuan

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[LinkedIn](#)

[My Website](#)

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EDUCATION	National Yang Ming Chiao Tung University Bachelor of Science in Applied Mathematics	Hsinchu City, Taiwan August 2022 – June 2026
	École polytechnique International Exchange Program	Palaiseau, France September 2024 – June 2025
HONORS	PTSGI.com 23rd Translation Scholarship PTSGI.com (Presidential Translation Service Group International) Selected as one of the 30 recipients in the translation competition for Japanese-to-English translation.	January 2026
	College of Science Dean Award College of Science, National Yang Ming Chiao Tung University For ranking in the top 10% of the department in my first three years of undergraduate study.	October 2025
	Outstanding Student Overseas Exchange Scholarship National Yang Ming Chiao Tung University & the Ministry of Education For my exchange program at École polytechnique in France.	June 2024
	Mathematics Presidential Award Department of Applied Mathematics, National Yang Ming Chiao Tung University For my academic performance in applied mathematics in my first year of undergraduate study.	September 2023 & February 2023
	Honor Student National Yang Ming Chiao Tung University For ranking in the top 5% of the department in my first semester of undergraduate study.	May 2023
SKILLS	Programming Python, C++, and R; L ^A T _E X and typst . Languages Mandarin, English (CEFR C1), Japanese (JLPT N2), and French (roughly CEFR B1).	
	Certificates SOA Exam P (July 2025) and Exam FM (December 2025, preliminary pass).	
PROJECTS	Study of Hitting Time and Probability for Random Walks in One and Two Dimensions College Student Research Project, National Science and Technology Council Studying the hitting time and probability of simple random walks in one and two dimensions, supervised by Prof. Yuki CHINO . Funded by the National Science and Technology Council with project number 114-2813-C-A49-139-M.	July 2025 – February 2026

The Gambler's Ruin Problem for One-Dimensional Random Walks: Simple Symmetric Random Walk and Some Extensions September 2025 – December 2025

Semester-long Project, [Individual Directed Study \(I\)](#), National Yang Ming Chiao Tung University
Studied the gambler's ruin problem in a more general setting with the book [Random Walk: A Modern Introduction](#) by G. F. Lawler and V. Limic, supervised by Prof. Yuki CHINO. See my [poster](#).

Credit Card Default Detection Using Machine Learning February 2025 – June 2025

Final Group Project, [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](#).

Chessbot Project: Cagnus November 2024 – January 2025

Final Group Project, [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

[Summer Research](#), Department of Applied Mathematics, National Yang Ming Chiao Tung University
Discussed [topics](#) on the gambler's ruin problem in a discrete setting and martingales in a measure-theoretic setting under Prof. Yuki CHINO.

WORK EXPERIENCE **Teaching Assistant** September 2025 – December 2025

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

Camp Counselor August 2025

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

Private Tutor September 2024 – June 2025 & April 2023 – June 2023

Tutored students with customized handouts.

Teaching Assistant September 2023 – June 2024

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

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, conducting weekly sessions with customized [handouts](#).