CHANG Yung-Hsuan

EDUCATION	**National Yang Ming Chiao Tung University**	Hsinchu City, Taiwan
	Bachelor of Science in Applied Mathematics	August 2022 – Present
	École polytechnique	Palaiseau, France
	International Exchange Program	September 2024 – June 2025

HONORS	**College of Science Dean Award**	October 2025
	Awarded by the College of Science, National Yang Ming Chiao Tung University.	
	Outstanding Student Overseas Exchange Scholarship	June 2024
	Awarded by National Yang Ming Chiao Tung University and the Ministry of Education.	
	Mathematics Presidential Award	September 2023 & February 2023
	Awarded by the Department of Applied Mathematics, National Yang Ming Chiao Tung University.	
	Honor Student	May 2023
	Awarded by National Yang Ming Chiao Tung University.	

SKILLS	**Programming Languages**
	Python, C++, and R.
	Spoken Languages
	Mandarin, English (CEFR C1), Japanese (JLPT N2), and French (roughly CEFR B1).
	Certificate
	SOA Exam P (July 2025) and Exam FM (December 2025, preliminary passed).

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 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.

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

Semester-long Project, Individual Directed Study (I), National Yang Ming Chiao Tung University
Studying 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.

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

Final 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.

Chessbot Project: Cagnus   November 2024 – January 2025

Final 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

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

Marking 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 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 & April 2023 – June 2023

Tutored students with customized handouts in LaTeX and Typst.

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 Calculus A (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 (I) and Calculus A (II), conducting weekly sessions and creating handouts in LaTeX.