

# CHANG Yung-Hsuan

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[LinkedIn](#)

[My Website](#)

[Latest version of my CV](#)

## 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

January 2026

PTSGI.com (Presidential Translation Service Group International)

Selected as one of the 30 recipients in the translation competition for Japanese-to-English translation.

### College of Science Dean Award

October 2025

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.

### Outstanding Student Overseas Exchange Scholarship

June 2024

National Yang Ming Chiao Tung University & the Ministry of Education

For my exchange program at École polytechnique in France.

### Mathematics Presidential Award

September 2023 & February 2023

Department of Applied Mathematics, National Yang Ming Chiao Tung University

For my academic performance in applied mathematics in my first year of undergraduate study.

### Honor Student

May 2023

National Yang Ming Chiao Tung University

For ranking in the top 5% of the department in my first semester of undergraduate study.

## SKILLS

### Programming

Python, C++, and R; L<sup>A</sup>T<sub>E</sub>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

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 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](#).