

# CHANG Yung-Hsuan

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[LinkedIn](#)

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## EDUCATION

### National Yang Ming Chiao Tung University

Bachelor of Science in Applied Mathematics

Hsinchu City, Taiwan

August 2022 – Present

### École polytechnique

International Exchange Program

Palaiseau, France

September 2024 – June 2025

## HONORS

### College of Science Dean Award

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

October 2025

### 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 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

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

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](#).

	<b>Credit Card Default Detection Using Machine Learning</b> Final Group Project, <a href="#">CSC_2S004_EP - Machine Learning</a> , 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 <a href="#">repository</a> .	February 2025 – June 2025
	<b>Chessbot Project: Cagnus</b> Final Group Project, <a href="#">CSC_2S001_EP - Object-oriented Programming in C++</a> , 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 <a href="#">repository</a> .	November 2024 – January 2025
	<b>Before Finance</b> <a href="#">Summer Research</a> , Department of Applied Mathematics, National Yang Ming Chiao Tung University Discussed <a href="#">topics</a> on the gambler's ruin problem in a discrete setting and martingales in a measure-theoretic setting under Prof. Yuki CHINO.	June 2024 – July 2024
<b>WORK EXPERIENCE</b>	<b>Teaching Assistant</b> Department of Applied Mathematics, National Yang Ming Chiao Tung University Marked homework and exams for <a href="#">Probability Theory</a> under Prof. <a href="#">FANG Xiang</a> .	September 2025 – December 2025
	<b>Camp Counselor</b> 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.	August 2025
	<b>Private Tutor</b> Tutored students with customized handouts in <a href="#">LATEX</a> and <a href="#">Typst</a> .	September 2024 – June 2025 & April 2023 – June 2023
	<b>Teaching Assistant</b> Department of Applied Mathematics, National Yang Ming Chiao Tung University Conducted office hours and marked exams for <a href="#">Calculus A (I)</a> and <a href="#">Calculus A (II)</a> under Prof. Yuki CHINO.	September 2023 – June 2024
	<b>Academic Tutor</b> 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 <a href="#">handouts</a> in <a href="#">LATEX</a> .	October 2023 – November 2023 & April 2024 – May 2024