

# CHANG Yung-Hsuan

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[LinkedIn](#)

[Website](#)

Latest version: [my GitHub](#)

## Education

### [National Yang Ming Chiao Tung University](#)

Applied Mathematics

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

Hsinchu City, Taiwan

August 2022 – Present

September 2024 – June 2025

## Honors

### **Outstanding Student Overseas Exchange Scholarship**

June 2024

Supported by National Yang Ming Chiao Tung University and the Ministry of Education.

### **Mathematics Presidential Award**

September 2023

Awarded by the Department of Applied Mathematics, National Yang Ming Chiao Tung University for my study in mathematics in 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.

### **Mathematics Presidential Award**

February 2023

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

## Skills

### **Programming Languages**

C++ and Python.

### **Spoken Languages**

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

## 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 the 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  $\text{\LaTeX}$ .

**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.