

# 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

Aug. 2022 – Present

Sep. 2024 – Jun. 2025

## Honors

### Outstanding Student Overseas Exchange Scholarship

Jun. 2024

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

### Mathematics Presidential Award

Sep. 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

Feb. 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

Jul. 2025 – Feb. 2026

#### for Random Walks in One and Two Dimensions

College Student Research Project, National Science and Technology Council

Studying the hitting and probability of random walks in one and two dimensions, focusing on their asymptotic behavior, under Prof. [CHINO Yuki](#). Funded by the National Science and Technology Council with project number 114-2813-C-A49-139-M.

### Credit Card Fraud Detection Using Machine Learning

Feb. 2025 – Jun. 2025

Group Project, [CSC\\_2S004\\_EP](#) - Machine Learning, [École polytechnique](#)

Developed a supervised machine learning pipeline to detect credit card fraud using real-world data with feature importance analysis and evaluation metrics. See this [repository](#).

Work  
Experience

**Chessbot Project: Cagnus**

Nov. 2024 – Jan. 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**

Jun. 2024 – Jul. 2024

National Yang Ming Chiao Tung University Applied Mathematics [Summer Research Internship](#), Department of Applied Mathematics, National Yang Ming Chiao Tung University

Discussed [topics](#) in mathematical finance, including gambler's ruin problem and matrigale, under Prof. CHINO Yuki.

**Teaching Assistant**

Sep. 2025 – Dec. 2025

Department of Applied Mathematics, National Yang Ming Chiao Tung University

Marked homeworks for [Probability Theory](#) under Prof. [FANG Xiang](#).

**Camp Counselor**

Aug. 2025

Office of International Affairs, National Yang Ming Chiao Tung University

I collaborated with three other student staff members to plan and lead a two-week language-immersion and coding-learning program for Japanese university students, coordinating team efforts and structuring the students' schedules.

**Private Tutor**

Sep. 2024 – Aug. 2025

Teaching and mentoring an eighth-grade student in mathematics (UK system), focusing on conceptual understanding and application; creating handouts with Typst.

**Curriculum Material Developer**

Mar. 2025 – May. 2025

[Aijia Tutoring](#)

Created a mathematics handout booklet for junior high second-year students, based on the Taiwan National Curriculum, as a paid private tutoring commission.

**Teaching Assistant**

Sep. 2023 – Dec. 2023 & Feb. 2024 – Jun. 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**

Oct. 2023 – Nov. 2023 & Apr. 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**

Apr. 2023 – Jun. 2023

Helped a high school student prepare for the Advanced Subjects Test in Mathematics A, focusing on problem-solving and exam strategies.

**Part-Time Assistant**

Sep. 2020 – Jun. 2022

Office of Student Affairs, National Hsinchu Senior High School

Built a student self-learning platform, created event posters and videos, managed assembly slides, and digitized documents.