

# CHANG Yung-Hsuan

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[LinkedIn](#)

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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

### **National Hsinchu Senior High School**

High School Degree, General Subjects

Hsinchu City, Taiwan

Aug. 2019 – Jun. 2022

## 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.

### **Outstanding Performance Award**

Jun. 2022

Awarded by the Hsinchu City Government for my overall performances during my course of study at National Hsinchu Senior High School.

## 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 matringale, under Prof. CHINO Yuki.

**Private Tutor**

Sep. 2024 – Present

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.

**Student Club Instructor**

Sep. 2020 – Jun. 2021

Computer Software Design Club, National Hsinchu Senior High School

Taught coding in C++ (selection structure and number theory) and assisted club members during lectures.

**Skills****Programming Languages**

C++ and Python.

**Spoken Languages**

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