

SUMMARY

I am deeply interested in astrophysics—especially stellar evolution and cosmology, including the early universe, dark matter, and dark energy—and I am also strongly interested in particle physics.

RESEARCH PROJECT

Undergraduate research (NSTC Research Grant for University Student,2025) Sep 2024 - Present
Project title : Progenitors of magnetars and core-collapse supernovae in binary systems
Advisor : Prof. Kuo-Chuan Pan
Continuing the summer student project, testing the effects of different initial rotational velocity conditions. The ultimate goal is to find the progenitors of fast-rotating stars, and even the progenitors of magnetars.

NCTS-TCA Summer Student Program Jul 2024 - Aug 2024
Project title : Core-collapse supernova progenitors from binary systems
Advisor : Prof. Kuo-Chuan Pan
Focus on running MESA simulations of binary systems until core collapse, comparing the effects of different mass ratios on the evolution of binary systems. Received the Best Presentation Award.

EDUCATION

Bachelor of Physics Sep 2023 - Present
National Tsing Hua University

AWARD AND GRADE

- Passed NTHU Ph.D. Qualifying Examinations – Quantum Mechanics & Classical Mechanics
 - Poster Honorable Mention in 2026 TPS Annual Meeting
 - Best Poster Award in 2025 ASROC Annual Meeting
 - Best Poster Award in 2025 NTHU Department of Physics poster competition
 - Best Presentation Award in 2024 NCTS-TCA Summer Student Program
 - 2025 NTHU College of Science Elite Student Award
 - Academic Excellence Award (5 semesters. Award for being the top 5% of students in Physics)
- High school**
- Graduated first in the natural science track (excluding biology)

Freshman Year (Fall): 22 credits, GPA 4.01/4.3

Freshman Year (Spring): 28 credits, GPA 4.18/4.3

Sophomore Year (Fall): 26 credits, GPA 4.3/4.3

Sophomore Year (Spring): 24 credits, GPA 4.22/4.3

Junior Year (Fall): 24 credits, GPA 4.23/4.3

ACTIVITIES

- President of the Astronomy Club in high school. Organizing events and teaching astronomy .
- President of the NTHU Astronomy Club.
- Astronomy Club Advisor, Hsinchu Girls' Senior High School

SKILLS

- Basic Linux usage and Python programming

GRADUATE COURSES

Fluid Dynamics: A-, Ranked 3/13, 2023(Fall)

Quantum Field Theory I: A+, 2025(Fall)

Elementary Particles I: A, 2025(Fall)

Observational Astronomy: A+, 2025(Fall)