

SUMMARY

High school senior passionate about physics, engineering, and the universe. Won awards in multiple Olympiads and international science fairs. Published work on astrophysics and engineering physics. Leads science social media page for 3+ years.

- EDUCATION
- Class of Science, Chiayi Senior High School, Taiwan

  - Accelerated STEM education, 3 years coursework in 2 years.
  - Class rank 1 / 653 for 2.5 years
  - GPA: 95 / 100

- AWARDS
- Silver Medal, 19th International Junior Science Olympiad (IJSO)

IJSO Committee

  - Globally ranked 26th.
  - Self-studied high school physics, biology, and chemistry during middle school.

2nd Prize, 2024 MOSTRATEC International Science and Technology Fair

3rd Prize, 2024 Taiwan International Science Fair (TISF)

National Taiwan Science Education Center, Mostratec Liberato (Brazil)

  - Project: *Analyzing the Membership Ratio of RR Lyrae Stars in Globular Clusters.*
  - Selected as national representative for MOSTRATEC at TISF.

Harvard Book Prize

Harvard Club of the Republic of China

  - For demonstrating “academic excellence and outstanding character, combined with achievement in extracurricular activities.”

Global Finalist, Asia Region Champion, 2023 Breakthrough Junior Challenge

Breakthrough Prize Foundation, Khan Academy, Cold Spring Harbor Laboratory

  - 2-minute physics video *The Missing Neutrino* selected as a Global Top 15 Finalist
  - Popular Vote champion in the Asia Region

- PUBLICATIONS
- Ho, C.-Y. (2024). Force model and experimental analysis of a simple straw pump. *Journal of High School Science*, 8(3), 30–46.

Ho, C.-Y., Huang, K.-F. (2024). Analyzing the membership ratio of RR Lyrae variables in globular clusters with Gaia data. *Journal of Emerging Investigators*. (In press).

- PROJECTS
- Delta Knowledge (2021-PRESENT)

  - Leads team of 4, dedicated to science content on YouTube & Instagram.
  - Hosted infographics design competition, successfully attracted sponsors
  - 10k+ followers, over 6 million views across all platforms.

- VOLUNTEER
- 2023.08-2024.02, Volunteer, Chiayi Chang Gung Memorial Hospital

2023.09-2024.06, Student STEM & English Mentor, Chiayi Senior High School

- CERTIFICATES AND EXAMS
- Duolingo English Test

150 / 160, 14 Dec. 2024

SAT

1550 (R&W 760, Math 790), 1 Jun. 2024

IELTS

8.0 / 9.0, 20 Aug. 2022