

# Ryan Joo Rui An

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## Education

- Dunman High School** 2024  
Singapore GCE A-Level (Preliminary Examination: Distinction in H2 Mathematics, H2 Physics, H2 Chemistry, H2 Economics, Merit in H3 Mathematics)
- Chung Cheng High School (Main)** 2022  
Singapore GCE O-Level (L1R5: raw 6, nett 4, including A1 in Mathematics, Additional Mathematics, Physics, Chemistry, Biology)

## Experience

- Teaching assistant, SJK(C) Jalan Davidson** Jan 2025 –  
• Assisted in delivering mathematics olympiad lessons to 20+ students between ages of 7 and 8.
- Teaching intern, Cemerlang Bakti Tuition Centre** Nov 2022 – Dec 2022  
• Conducted mathematics olympiad classes for students of various ages, developed and delivered lesson plans focusing on problem-solving techniques, mathematical reasoning, and critical thinking skills.  
• Achieved advancements in students' problem-solving skills and mathematical comprehension.

## Projects

- Topics in Undergraduate Mathematics**  
My notes when self-studying undergraduate mathematics. (in writing)
- Mathematics Olympiad: A Guidebook**  
Notes comprising various topics in mathematics olympiad. (in writing)
- Analysing Happiness: Understanding Determinants Across Global Contexts** 2024  
Analysed data from World Happiness Report 2023 to determine the most important factor contributing to the happiness of a country.
- Different Sizes of Infinity** 2024  
Exhibition poster which discusses the cardinality of infinite sets, designed for the Mathematics Week at my school.

## Skills

- Programming:** Python, HTML/CSS
- Libraries:** numpy, pandas, matplotlib, seaborn, scikit-learn
- Softwares:** VS Code, GitHub, Overleaf, TeXstudio, Google Colab

## Awards and Scholarships

- Silver awards, Singapore Mathematics Olympiad 2022 – 2024
- Merit award, Singapore International Mathematical and Computational Challenge 2024
- Prize awards, 3 High Distinction awards, Australian Mathematics Competition 2019 – 2024
- Bronze award, Singapore Astronomy Olympiad 2024

Honourable mention, High School Mathematical Contest in Modeling	2023
Bronze award, Singapore Physics Olympiad	2023
Gold awards, Malaysian Computing Challenge	2020, 2021
ASEAN Scholarship	2021 – 2024
Membership of Malaysian Mensa Society	2020
2nd place, Hua Lo Geng Secondary School Mathematics Competition	2019
1st place, Chen Jingrun's Cup Secondary School Mathematics Competition	2019