

Ryan Joo Rui An

✉ ryanjooruian18@gmail.com in [LinkedIn](#) [Github](#) [🏠 ryanjoo18.github.io](https://ryanjoo18.github.io)

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.

Publications

Undergraduate Mathematics

Joo, R. (in writing)

Mathematics Olympiad: A Guidebook

Joo, R. (in writing)

Projects

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