

Ryan Joo Rui An

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Professional Summary

High school student skilled in analytical thinking and problem-solving. Excelled in mathematics olympiads, proficient in programming and experienced with relevant mathematical software. Collaborative team player with strong project management skills and a commitment to continuous learning.

Education

GCE A-Level, Dunman High School

GCE O-Level, Chung Cheng High School (Main), *L1R5: 6 (raw), 4 (nett), A1 in Mathematics, Additional Mathematics, Physics, Chemistry, Biology*

Experience

Teaching intern, Cemerlang Bakti Tuition Centre | Nov 2022 – Dec 2022

- Conducted mathematics olympiad classes for 10 students, 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.

Skills

- **Programming:** Python, \LaTeX
- **Libraries:** numpy, pandas, matplotlib, seaborn, scikit-learn
- **Softwares:** VS Code, GitHub, Overleaf, TeXstudio, RStudio, Google Colab
- **Languages:** English (native), Chinese (native), Malay (fluent)

Projects

- **Analysing Happiness: Understanding Determinants Across Global Contexts** | Jupyter Notebook project, which analyses data from World Happiness Report 2023 to determine most important factor contributing to happiness of a country.
- **Different Sizes of Infinity** | Exhibition poster designed for the Mathematics Week at my school, which discusses the cardinality of infinite sets.
- **Fons** | Book which contains my notes when self-studying university mathematics. (in writing)
- **Mathematics Olympiad: A Guidebook** | Book which provides expert guidance and practice problems to excel in mathematics olympiad competitions. (in writing)
- **Physics Olympiad: A Guidebook** | Book which provides expert guidance and practice problems to excel in physics olympiad competitions. (in writing)

Achievements

HONOURS

- Recipient of **ASEAN Scholarship** in 2020, offered by Ministry of Education of Singapore
- Member of **Malaysian Mensa Society, Mensa International** since 2020, Test Reference Number: MY023479

AWARDS

- **Singapore Mathematics Olympiad 2022 – 2024:** 3 Silver awards
- **Singapore and Asian Schools Math Olympiad 2019 – 2023:** 6 Gold awards, top in Singapore in 2022 – 2023, top in Malaysia in 2024
- **Singapore International Mathematical and Computational Challenge 2024:** Merit award
- **Australian Mathematics Competition 2019 – 2023:** 2 Prize awards, 2 High Distinction awards, best in school in 2023
- **Singapore Astronomy Olympiad 2024:** Bronze award
- **High School Mathematical Contest in Modeling 2023:** Honourable mention
- **Singapore Physics Olympiad 2023:** Bronze award
- **Singapore Junior Chemistry Olympiad 2022:** Bronze award
- **Malaysian Computing Challenge 2020 – 2021:** 2 Gold awards
- **Hua Lo Geng Secondary School Mathematics Competition 2019:** 2nd place
- **Chen Jingrun's Cup Secondary School Mathematics Competition 2019:** 1st place