



# Ryan Joo Rui An

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## Summary

Highly motivated individual with a strong passion for science and mathematics. Actively participated in numerous Mathematics Olympiad competitions, demonstrating exceptional problem-solving skills and a keen analytical mindset. Aspiring to work in the field of engineering, with a focus on applying mathematical, physics and computing principles to real-world problems.

Possesses excellent attention to detail and the ability to work independently or as part of a team to achieve project goals. Continuously seeking opportunities to learn and grow in the field of science and engineering.

## Experience



### Teaching Assistant

Cemerlang Bakti Tuition Centre

Nov 2022 - Dec 2022 (2 months)

Conducted Mathematics Olympiad classes for students aged 7 to 16.

Developed and delivered lesson plans, focusing on advanced problem-solving techniques, mathematical reasoning, and critical thinking skills.

Assisted students in understanding complex mathematical concepts and provided guidance in solving challenging Olympiad-style problems.

Implemented engaging teaching methods, including interactive activities, group discussions, and hands-on exercises to enhance student learning and participation.

Monitored individual student progress and provided personalised feedback and support to help students improve their problem-solving abilities and mathematical proficiency.

Collaborated with fellow educators and shared teaching resources to create a stimulating and effective learning environment.

## Education



### Dunman High School

Jan 2023 - Dec 2024



### Chung Cheng High School (Main)

Jan 2021 - Dec 2022



### Chong Hwa Independent High School

Jan 2019 - Dec 2020



### SJK(C) Jalan Davidson

Jan 2013 - Dec 2018

## Skills

Pattern Recognition • HTML • JavaScript • Cascading Style Sheets (CSS) • LaTeX • Mathematical Olympiad • Python (Programming Language) • C++ (Programming Language)

## Honors & Awards



**Singapore Mathematical Olympiad (SMO)** - Singapore Mathematical Society (SMS)

Aug 2022

Silver Award (Senior Section)



**Singapore Junior Physics Olympiad (SJPhO)** - Institute of Physics Singapore (IPS)

Sep 2022

Bronze award



**Singapore Junior Chemistry Olympiad (SJChO)** - Singapore National Institute of Chemistry (SNIC)

Sep 2022

Bronze award



**Singapore Mathematical Olympiad (SMO)** - Singapore Mathematical Society (SMS)

Aug 2023

Silver award (Open Section)



**Australian Mathematics Competition (AMC)** - Australian Mathematics Trust (AMT)

Aug 2021

Prize award



**National Olympiad in Informatics (NOI)** - National University of Singapore (NUS)  
School of Computing

Aug 2023

Participation



**Singapore Physics League (SPhL)** - Institute of Physics Singapore (IPS)

Sep 2022

Bronze award



**NTU Physics Challenge** - Nanyang Technological University (NTU) School of  
Physical and Mathematical Sciences

Jul 2023

Participation



**International Mathematics Contest (IMC)** - IMC International Mathematic Contest  
Union

Aug 2021

Gold prize



**Malaysian Computing Challenge (MCC)** - Malaysian Informatics And Programming Society

Jun 2021

Gold award



**World Mathematics Invitational (WMI)** - WMI Organising Committee

Sep 2021

Diamond medal