

## EDUCATION

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- **GCE A-Level** 2023 – 2024  
Dunman High School *Singapore, SG*
- **GCE O-Level** 2021 – 2022  
Chung Cheng High School (Main) *Singapore, SG*
  - A1 in Mathematics, Additional Mathematics, Physics, Chemistry, Biology
  - Chuang Weilang Mathematics Award
  - Dr. Chuang Chu Lin Scholarship for 1st in Standard
  - Bilingual Award for Excellence in English and Higher Chinese, Best in Additional Mathematics (Secondary Three) Award, Best in Mathematics (Secondary Three) Award
- **UEC Junior** 2019 – 2020  
Chong Hwa Independent High School *Kuala Lumpur, MY*
  - Top Scorer Prize in Science, Top Scorer Prize in Mathematics, Top Scorer Prize in English Language, Top Scorer Prize in Bahasa Malaysia
  - Overall Second Position in Junior Middle One

## EXPERIENCE

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- **Dietetics Intern** Dec 2023  
Sengkang General Hospital *Singapore, SG*
  - Acquired foundational knowledge of dietetics profession and infection control protocols.
  - Gained insight into therapeutic diets for various medical conditions, contributing to the development of personalised meal plans for patients.
  - Shadowed dietitians in inpatient and outpatient settings, including 3 tube feeding and nutritional support cases, enhancing understanding of tailored patient care.
  - Conducted tour of hospital kitchen, gained insight into the electronic Meal Ordering System (eMOS), observed meal preparation and plating procedures.
- **Teaching Intern** Nov 2022 – Dec 2022  
Cemerlang Bakti Tuition Centre *Selangor, MY*
  - Conducted Mathematics Olympiad classes for 10 students, aged 7 to 16, achieving noticeable advancements in students' problem-solving skills and mathematical comprehension.
  - Developed and delivered lesson plans focusing on problem-solving techniques, mathematical reasoning, and critical thinking skills.
  - Tracked individual student progress and offered tailored assistance in grasping complex mathematical concepts.

## PUBLICATIONS

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### Books

- [1] *The Road to Mastery: Mathematics Olympiad* (in writing)
- [2] *Mathematics: A University-Level Introduction* (in writing)
- [3] *Physics: A University-Level Introduction* (in writing)

### Papers

- [4] *Tools for Mathematical Modelling* (in writing)

## PROJECTS

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- **Personal website** Oct 2023  
Website

## ACHIEVEMENTS

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### Honours

- **ASEAN Scholarship** 2020  
Recipient
- **Malaysian Mensa Society, Mensa International** 2020  
Member, 180 marks, Test Reference Number: MY023479

### Awards

- **Singapore Mathematics Olympiad (SMO)** 2023  
Silver award in Open Section
- **Singapore and Asian Schools Math Olympiad (SASMO)** 2023  
Gold award in Grade 11, Top in Singapore
- **Australian Mathematics Competition (AMC)** 2023  
High distinction in Senior Division, Best in school
- **High School Mathematical Contest in Modeling (HiMCM)** 2023  
Honourable Mention
- **Singapore Physics Olympiad (SPhO)** 2023  
Bronze award
- **Singapore Mathematics Olympiad (SMO)** 2022  
Silver award in Senior Section, Qualified to Round 2
- **Singapore Junior Chemistry Olympiad (SJCO)** 2022  
Bronze award
- **Malaysian Computing Challenge (MCC)** 2021  
Gold award in Junior Category
- **Hua Lo Geng Secondary School Mathematics Competition** 2019  
2nd place in Junior Category
- **Chen Jingrun's Cup Secondary School Mathematics Competition** 2019  
1st place in Junior Category

## SKILLS

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- **Languages:** English, Chinese, Malay, German
- **Programming:** Python, L<sup>A</sup>T<sub>E</sub>X, R, HTML, CSS
- **Softwares:** VS Code, GitHub, TeXstudio, Overleaf, RStudio, Google Earth Engine

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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- **Befrienders Programme** Dec 2023 – Feb 2024  
Committee member
  - Designed and executed a programme for Year 5 students to become effective befrienders to incoming O-Level students joining the school. Trained student befrienders to facilitate the smooth integration of new students into the school.
- **Mathematics Society** Feb 2023 – June 2024  
Member
  - Represented school in competitions and achieved excellent results.
  - Planned and executed Math Week, an activity aimed at promoting Mathematics to students at the secondary school and Junior College level through games and exhibitions.
- **Infocomm Club** Feb 2023 – June 2024  
Member
  - Enrolled in a comprehensive course centred on Swift programming, focused on the development of mobile applications.

- Participated in a learning journey to Open Governmental Products (OGP), gained insights into the development and design of user-friendly websites and applications.

- **Class Committee** Feb 2023 – Jan 2024
  - Secretary
    - Managed the collection of funds for the class fund, overseeing financial transactions and ensuring transparency and accountability in fund management.
    - Coordinated discussions, planning sessions, and execution of class activities aimed at fostering bonding and camaraderie among classmates.
- **Chinese Chess Club** Jan 2021 – Aug 2022
  - Committee member
    - Actively participated in the strategic planning and proficiently executed a Chinese chess competition, aimed at fostering and cultivating a heightened interest in Chinese chess among the club's members.
- **Academic Research Society** Jan 2019 – Dec 2020
  - Secretary, Member of school team
    - Represented school and country in various Mathematics competitions and achieved excellent results.
    - Developed, coordinated, and successfully executed a series of meticulously planned academic events, fostering an environment conducive to scholarly discourse and knowledge exchange in Mathematics.
- **Chess Club** Jan 2019 – Dec 2020
  - Member of school team
    - Represented school in various chess tournaments and achieved excellent results.
- **Class Committee** Jan 2019 – Dec 2020
  - Secretary

## COMMUNITY SERVICE

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- **Springfield Secondary School** Singapore, SG  
 May 2023 – Nov 2023
  - Volunteer tutor
    - Tutored 20 students in need of assistance in Mathematics and Science subjects.
    - Designed and delivered personalised tutoring sessions tailored to individual student needs, targeted specific areas for improvement, provided additional practice materials.
    - Monitored students' progress, identified areas of improvement, provided constructive feedback to help students overcome challenges and enhance their academic performance.
- **Brahm Centre** Singapore, SG  
 April 2023 – Sep 2023
  - Volunteer
    - Communicated with and provided practical guidance to 10 seniors in utilising mobile phones and mobile application, improved their digital proficiency and technological competence.
- **Willing Hearts** Singapore, SG  
 Sep 2022 – Oct 2022
  - Volunteer
    - Assisted in operating a daily soup kitchen.
    - Prepared, cooked and distributed 200 meals every day to the elderly, disabled individuals, low-income families, children from single-parent households, and migrant workers.