

EDUCATION

- Dunman High School

GCE A-Level

Singapore, SG  
2023 – 2024
- Chung Cheng High School (Main)

GCE O-Level: 10 subjects including Additional Mathematics and Physics at grades A1 – A2

Singapore, SG  
2021 – 2022

  - Awards:** Chuang Weiland 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.
- Chong Hwa Independent High School

UEC Junior

Kuala Lumpur, MY  
2019 – 2020

  - Awards:** 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

- Sengkang General Hospital

Dietetics Intern

Singapore, SG  
Dec 2023

  - 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.
- Cemerlang Bakti Tuition Centre

Teaching Intern

Selangor, MY  
Nov 2022 – Dec 2022

  - 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

- The Road to Mastery: Mathematics Olympiad

Book

June 2023 – present

This book presents strategic approaches for excelling in Mathematics Olympiad competitions, providing valuable insights and techniques.
- Mathematics: A University-Level Introduction

Book

June 2023 – present

Introducing university-level Mathematics concepts, this book serves as a comprehensive guide, aiding in the understanding and application of advanced mathematical principles.
- Physics: A University-Level Introduction

Book

Sep 2023 – present

Presenting a university-level introduction to Physics, this book offers comprehensive insights and knowledge, facilitating a solid grasp of fundamental principles.

## PROJECTS

---

- **Fires and Hotspots**

*Google Earth Engine Project*

*Dec 2023*

Utilised data from Sentinel-2 satellite to identify hotspots and analyse surrounding areas in Sumatra, Indonesia.

- **Personal website**

*Website*

*Oct 2023 – present*

The source code can be found on my GitHub.

## ACHIEVEMENTS

---

### Honours

- **Young Achievers Leadership Academy (YALA) Silver Scholarship**

*Recipient*

*2023*

- **Young Achievers Leadership Academy (YALA) Gold Scholarship**

*Recipient*

*2022*

- **International Junior Honor Society (IJHS)**

*Membership*

*2022*

- **Young Achievers Leadership Academy (YALA) Gold Scholarship**

*Recipient*

*2021*

- **ASEAN Scholarship**

*Recipient*

*2020*

- **Malaysian Mensa Society, Mensa International**

*Membership, 180 marks, Test Reference Number: MY023479*

*2020*

- **Young Achievers Leadership Academy (YALA) Platinum Scholarship**

*Recipient*

*2019*

### Awards

- **Singapore Mathematics Olympiad (SMO)**

*Silver award in Open Section*

*2023*

- **Singapore and Asian Schools Math Olympiad (SASMO)**

*Gold award, Top in Singapore*

*2023*

- **Australian Mathematics Competition (AMC)**

*High distinction in Senior Division, Best in school*

*2023*

- **Singapore Physics Olympiad (SPhO)**

*Bronze award*

*2023*

- **Singapore Physics League (SPhL)**

*Honourable mention*

*2023*

- **Singapore Mathematics Olympiad (SMO)**

*Silver award in Senior Section*

*2022*

- **Singapore Junior Physics Olympiad (SJPO)**

*Bronze award*

*2022*

- **Singapore Physics League (SPhL)**

*Bronze award*

*2022*

- **Singapore Junior Chemistry Olympiad (SJCO)**

*Bronze award*

*2022*

- **Australian Mathematics Competition (AMC)**

*Prize award in Intermediate Division*

*2021*

- **Malaysian Computing Challenge (MCC)**

*Gold award*

*2021*

- **Hua Lo Geng Secondary School Mathematics Competition** 2019  
2nd place
- **Chen Jingrun's Cup Secondary School Mathematics Competition** 2019  
1st place
- **MSSM Chess Championship (Kuala Lumpur Sentul Region)** 2019  
3rd place

## SKILLS

---

- **Languages:** English, Chinese, Malay, German, Japanese, Italian
- **Programming languages:** Python,  $\text{\LaTeX}$ , R, C++, HTML, CSS
- **Softwares:** VS Code, GitHub, Overleaf, RStudio, Google Earth Engine

## ACTIVITIES & LEADERSHIP

---

- **Befrienders Programme** Dunman High School  
Committee member Dec 2023 – Feb 2024
  - Designed and executed a programme for Year 4 (2023)/Year 5 (2024) Dunmanians to become effective befrienders to O-Level students joining Dunman High in 2024. Getting ready student befrienders to facilitate the smooth integration of new students into Dunman High.
- **Mathematics Society** Dunman High School  
Member Feb 2023 – June 2024
  - 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** Dunman High School  
Member Feb 2023 – June 2024
  - 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** Dunman High School  
Secretary Feb 2023 – Jan 2024
  -
- **Chinese Chess Club** Chung Cheng High School (Main)  
Committee member Jan 2021 – Aug 2022
  - 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** Chong Hwa Independent High School  
Secretary, Member of school team Jan 2019 – Dec 2020
  - 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** Chong Hwa Independent High School  
Member of school team Jan 2019 – Feb 2020
  - Represented school in various chess tournaments and achieved excellent results.

## COMMUNITY SERVICE

---

- **Springfield Secondary School** Singapore, SG  
*Volunteer tutor* *May 2023 – Nov 2023*
  - 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  
*Volunteer* *April 2023 – Sep 2023*
  - 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  
*Volunteer* *Sep 2022 – Oct 2022*
  - 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.