

MA, Hei Wun Apple

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EDUCATION

Harrow International School Hong Kong, Hong Kong, Grade 11 - 12 2024 – Present

- TOEFL: 112
- SAT: 1560 (Reading and Writing 760; Math 800)

Diocesan Girls' School, Hong Kong, Grades 9 -11 2022 – 2024

St. Stephen's College, Hong Kong, Grades 9 2021

Academic Honors and Distinctions

- Outstanding Writing Style Prize, Harvard International Review Academic Writing Contest 2025, G12
- Gold Award, The 8th National Youth Artificial Intelligence Innovation Challenge Finals 2025, G12
- First Award, The 8th National Youth Artificial Intelligence Innovation Challenge Qualification Trials 2025, G12
- Honor Roll, Bebras Computing Challenge 2025, G11
- Silver Award, BPhO Online Senior Physics Challenge 2025, G11
- Commendation, British Physics Olympiad Round 1 2024, G11
- STEM Scholarship, Cambridge Centre for International Research 2024, G11
- Global Distinction Award, Australian Science Olympiads (Physics) 2024, G11
- National Proficiency Award, Australian Math Competition 2024, G11
- Excellence, "CrownCAD Cup" Qualifying Competition 2024, G11
- Silver Award, UKMT Senior Mathematical Challenge 2024, G11
- 2nd Runner Up Award, Senior Secondary Python Programming Contest 2024, G11
- Best Group Award for Technology Product Solutions in the Aseeder Global Volunteering Programs 2025, G12
- Distinction Award, Hypatia Math Competition 2024, G11
- Distinction Award, Galois Math Competition 2023, G10
- Distinction Award, Cayley Math Competition 2023, G9
- Bronze Award, Hong Kong Education Bureau Junior Secondary Science Online Self-learning Scheme 2022, G10
- Third Prize, Algorithm Programming Design Special Competition and the World Robot Competition Python Programming Competition (Guangdong Province) 2022, G10
- Level 3 Certificate, LAMDA Speaking in Public 2024, G11

ACADEMIC ENRICHMENT

Research on Renewable Energy, *Student Researcher* 2025

- Studied on various renewable energy and technologies under the guidance of Prof. Nasr Ghoniem at UCLA
- Produced a research report on "Review and Design of a Wave Energy Conversion System" and earned a grade A
- Link: [Review and Design of a Wave Energy Conversion System](#)

Research on Structural Dynamics and Vibrations, *Student Researcher* 2024

- Mentored by UCLA Professor Jiann-Wen Woody Ju to explore free vibration analysis of SDOF equation of motion, covering components of the basic SDOF dynamic system, the equation of motion, the undamped free vibrations, the damped free vibrations, and vibration control
- Completed the final research paper on Investigation in Structural Dynamics and gained a grade A
- Published the research paper on the 3rd International Conference on Mechatronics and Smart Systems (CONF-MSS 2025) and EWA Publishing
- Link: [The Interplay of Structural Stiffness and Mechanical Vibrations in Multi-Level Constructions](#)

PZMC Number Theory Camp, *Selective Student* 2025

- Worked on the rigorous admission challenge questions, joined the course Number Theory and the Art of Mathematical Thinking
- Engaged in interactive lectures, group problem solving sessions
- Accomplished a final project on "Cryptography beyond RSA"

- AwesomeMath Summer Program, *Selective Student*** 2024
- Passed a highly selective admission test and attended courses on developing essential ideas in number theory such as divisibility, prime factorization, numerical systems, divisors, etc
 - Honed problem-solving techniques for studying advanced mathematics
- Harvard Pre-College Program, *Selective Student*** 2024
- Attended the course “Intro to Doing Astrophysics” and researched dark matter and its relationship to galactic rotation curves
 - Participated in discussions, produced papers on “How can Modified Newtonian Dynamics (MOND) prove the existence of dark matter when galactic rotation curves are taken into consideration”
- Johns Hopkins Center for Talented Youth Summer Program, *Selective Student*** 2023
- Attended modules on “the Physics of Sports” instructed by Professor Guy Okoko, analyzed and solved mathematical computations in kinematics, momentum, energy loss, and impulse in colliding systems in sports
 - Engaged actively in class discussions on the difference between distance and displacement
 - Joined group problem-solving session on projectile motion and helped group mates understand the trigonometry associated with the maximum range
 - Guided the group mates through experiments on vectors and its application to Atwood’s machine
- Cambridge Centre for International Research, *Selective Student*** 2023
- Enrolled in the Cambridge Future Scholar programme “Foundational Problems of Quantum Physics: Quantum Measurement and General Relativity” under the instructions of Dr Damián Pitalúa-García
 - Explored the quantum measurement theory, the nature of quantum states, and the implications of gravitational effects on quantum systems
 - Produced a research paper and achieved the honor of STEM scholar
- Noah’s Ark STEM Summer Camp, *Student Leader*** 2022
- Lead hands-on STEM workshops, explored real-world applications of science and engineering through interactive activities
 - Coordinated and achieved group Championship in Inter-School Summer Dancing Drone Competition
- Fudan University Philosophy Winter Camp (Hong Kong, Macao and Taiwan), *Selective Student*** 2022
- Explored foundational and contemporary topics in ethics, metaphysics, Chinese philosophy, and Western philosophy
 - Engaged in critical thinking workshops and collaborative debates, enhanced analytical reasoning skills

SCHOOL CLUBS

- HarrowHK STEMinst, *Founder & President*** 2025 – Present
- Organized weekly workshops, inviting female experts and university professors as guest speakers
 - Initiated peer mentorship sessions for lower-form students with difficulty in STEM subjects
 - Led for outreach activities and cooperated with other international schools in Hong Kong to facilitate collaborative online STEM discussions
- HarrowHK Upper School Student Leadership, *Digital Ambassador*** 2025 – Present
- Selected to represent the study body in promoting responsible and innovative use of digital tools at the school
 - Led workshops and peer mentoring sessions on digital literacy and academic technology platforms
 - Supported classmates and younger students with tech troubleshooting
- TEDxYouth @ HarrowHK, *Co-organizer*** 2025
- Co-organized an official TEDxYouth event, worked with organizing committees, developed the event theme and managed speaker line-up
 - Served as on-stage host, introduced speakers and engaged the audience to promote TED’s mission of “ideas worth spreading”
 - Coordinated with student presenters and audiovisual teams to deliver meaningful youth speeches

- Programming Team, *Vice-Chairlady*** 2022 – 2024
- Led and coordinated a competitive programming team, organizing participation in major events including Hong Kong Olympiad in Informatics (HKOI)
 - Initiated regular meetings and peer-led workshops to share strategies and problem-solving techniques
- Harvard Model United Nations China, *Delegate*** 2025
- Represented the Kingdom of the Netherlands focusing on environmental issues including climate change, rising sea levels, and nitrogen crisis etc.
 - Contributed to draft a resolution promoting international cooperation for sustainable development
- Drama Night Organizing Committee, *Vice-Chair*** 2023 – 2024
- Led events planning, rehearsals, and outreach for the school's annual Drama Night
 - Coordinated a joint Drama Night for 800 attendees across Diocesan Girls' School, Diocesan Boys' School, and Kowloon True Light school
- Varsity Tennis Team, *Team Captain*** 2019 – present
- Led training sessions, coordinated participation in inter-school and regional competitions
 - Mentored teammates in technical preparation, contributing to the team's achievement in a regional championship
 - Represented our school in ISSFHK tennis competition, fostering teamwork spirit
- Overseas and Exchange Team, *Vice-Chairlady*** 2023 – 2024
- Promoted cross-cultural engagement among students, liaised with partner schools abroad, and helped organize orientation sessions
- Information Technology, *Prefect*** 2023 – 2024
- Provided technical support for school events, assisted teachers and students with IT-related issues
- “My People, My Country” Music Video Production, *Participant*** 2022
- Assisted in carrying out the performance of a patriotic music video
- Hong Kong Move On- NFT x School Mural Art Project, *Participant*** 2022
- Assisted in painting a NFT-inspired mural; sold art pieces online to support community art initiatives
- Vanhang Sailing Academy, *Assistant Coach*** 2023 – present
- Instructed beginner sailors in foundational sailing skills, assisted head coaches during training sessions
- Diocesan Girls' School Choir Club, *Member*** 2021 – 2022
- Performed concerts and community events at school, collaborated closely with peers during rehearsals
- St Stephen's College Choir Club, *Member*** 2019 – 2021
- Performed concerts and community events at school, collaborated closely with peers during rehearsals
- St Stephen's College Students' Council, *Member*** 2021
- Assisted in carrying out student-led events, supported communication between students and faculty
- Mensa Hong Kong, *Member*** 2024 – Present
- Passed an comprehensive IQ admission test, joined intellectual discussions and problem-solving activities

COMMUNITY SERVICE

- Benevolence Student Association Hong Kong, *Founder & President*** 2022 – Present
- Founded a student-led non-profit organisation focused on addressing local social issues by mobilizing and mentoring secondary school volunteers
 - Attended cancer research conferences, led awareness campaigns on cancer education under themes such as “Spreading Love Through Caring”
 - Organized for volunteer work in the 9th Global Chinese Breast Cancer Organizations Alliance Conference in Xi'an, supporting underserved communities through education and outreach activities

- Spearheaded fundraisers, successfully raising and donating RMB320,000 to support disabled communities for menstrual products through Shaanxi Women and Children Development Foundation and the Shenzhen Information Accessibility Research Association

Shesays Social Media Account, Co-Founder

2024 – Present

- Co-founded and maintained the online social platform to advocate women's voices, mental health and leadership in STEM areas
- Initiated social impact activities to empower young women, including charity book sales and workshops
- Organized monthly discussion sessions addressing topics like academic pressure and women in STEM, encouraging positive youth engagement

CodeHers Hong Kong, Student Helper

2025 – Present

- Participated actively in workshops and mentoring sessions to support girls engagement in STEM
- Collaborated closely with peers on programming projects to enhance problem-solving skills

ASEEDER Product Planning for the Support of Disabled Communities, Volunteer

2025

- Attended lectures on information accessibility in China and the classification of disabled groups and the challenges they face
- Participated actively in discussions on the challenges faced by visually impaired individuals when going out and proposed solutions from various dimensions, including physical accessibility, information accessibility, and service accessibility
- Completed a technology product (innovative wheelchair) proposal for disabled communities and conducted a PowerPoint presentation
- Earned recognition for the project's strong alignment with the Special Olympics mission

Society for the Prevention of Cruelty to Animals (SPCA), Volunteer

2024 – Present

- Supported animal care and shelter operation; promoted animal welfare through public education initiatives

SKILLS & TECHNIQUES

- **Computer Literacy & Programming:** AutoCAD, 3D Printing, Python, C++, SQL, Java, Javascript
- **Languages:** Native Cantonese, Native Mandarin, Advanced English
- **Arts (Instruments & Performing & Visual):** Piano (ABRSM Grade 4), Pipa (Central Conservatory of Music Music Level Practical Examination Grade 4), Vocal Singing, Painting (Level 8 of Royal Talents in Holland)
- **Sports:** Sailing, Diving (PADI Junior Open Water Diver Level 2), Tennis