

CURRICULUM VITAE

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Education	ST. PAUL'S CO-EDUCATIONAL COLLEGE (2016-PRESENT)	Hong Kong
	Course: International Baccalaureate Diploma Programme Grade: 44 / 45 SAT: 1550 SAT Subject Tests: 800 (in Math II, Chemistry, Physics) Relevant Coursework: Advanced calculus, algebra, statistics and probability, number theory	
	STEWARDS POOI KEI PRIMARY SCHOOL (2010-2016)	Hong Kong
Experiences	TECHNOTASTER	2020 – 2022
	Founder and project director <ul style="list-style-type: none"> - Founded nonprofit and led team to develop STEM educational solutions for underprivileged students in HK - Ran 4-wk game design workshop for primary school children - Collaborated with local organizations such as e-Concept and St James' Settlement 	
	ISLES OF ORIENT, HONG KONG	2020 – 2021
	Co-founder and team leader <ul style="list-style-type: none"> - Founded team and utilized Minecraft as a virtual exhibition medium, leading 10 people - Created city's first virtual museum for Hong Kong's culture, history, transport, landmarks, and environment - Published server to public and was promoted on renowned Instagram pages with 10k+ followers 	

INTERNSHIP AT NAUTILUS SOFTWARE TECHNOLOGIES LIMITED / 2021
HONG KONG ACADEMY OF GIFTED EDUCATION

Student intern

- Selected as one of seven high school students to intern at HKAGE and Nautilus Software Technologies Limited
- Developed and debugged Nemobot – educational chatbot software to educate users on STEM principles
- Introduced gamification of neural networks through combining Mastermind with working principle of neural network perceptron
- Worked under Dr. Chee Wei Tan, M.A and Ph. D. from Princeton University
- Collaborated with Princeton University Juniors
- Was awarded certificate of merit for contributions to the project

HKAGE, HONG KONG SOCIETY OF REHABILITATION 2021

Project contributor

- Led group in designing an innovative product for stroke patients, showcased product to actual patients at Hong Kong Society of Rehabilitation, the renowned rehabilitation organization in Hong Kong
- Earned certificate of distinction for extensive contribution to the project

SCHOOL LANGUAGE AND CULTURE CORE GROUP 2020-2021

Core Member

- Initiated novel in-school competitions relevant to Hong Kong cultural preservation and elements, interviewed and advocated dying cultural practices for the last generation of local HK craftsmen
- Led team of 15+ members in regulating Instagram page and posting fun facts

SCHOOL CHRISTIAN FELLOWSHIP 2016-2022

Chairperson (Form 5), Executive committee member (Form 3-4)

- Managed team of >20 committee members
- Held debates and initiated lectures regarding ethics and evolution
- Promoted mental and spiritual well-being at school
- Initiated “Love Action” community excursions with >30 participants each time for three years

ETERNAL LIFE AKHA EVANGELICAL ASSOCIATION

Student volunteer

- Selected by school to volunteer at community organization in Chiang Rai, Thailand
- Led team of 24 volunteers in designing mural with local cultural elements
- Devised course for teaching physics and art for 50+ underprivileged and orphaned children

**Awards/
Honors**

4th International Model ASEAN Summit – Best Delegate July 2020

Debut MUN-type conference, led department of >10 delegations in addressing education during COVID in Socio-Cultural community; awarded Best Delegate

Haihua National AI Challenge 2020 – Garbage Classification April 2020

Competition - Overall 7th

Selected as representative of school's AI team, joined debut competition, and utilized ensemble, convolutional networks, and confusion matrix for litter classification tasks

- Achieved 99.25% accuracy in classification of 10,000 garbage pictures

International Junior Science Olympiad 2019 Hong Kong 2018

Screening – Third Class Honor

One of six representatives of school to compete in regional competition, won third class honor in science olympiad

Member of the Hong Kong Academy of Gifted Education 2016-2022

Member of the Hong Kong University Academy for the Talented 2020-2022

71st Hong Kong Schools Music Festival 2019

Senior Mixed Voice Choir (1st Division Senior) – Singing in Chinese – First place

	<p>71st Hong Kong Schools Music Festival – Best Secondary School Boys’ Choir in the First Division 2019</p> <p>Sung as tenor in Senior Mixed Voice Choir’s boys division, made major comeback by rejoining Boys’ category for the first time in 16 years, dethroned 15+-year champion and won best choir in the category</p> <p>70th Hong Kong Schools Music Festival – Best Secondary School Mixed Voice Choir in the First Division 2018</p> <p>Debut competition in the Senior Mixed Voice Choir, sung as tenor and won best choir in the mixed category for the first time in 18 years.</p> <p>10th World Choir Games: Championship classes 2018</p> <ul style="list-style-type: none"> - Youth Mixed Voice Choir: 2nd place; Gold medal - Musica Contemporanea: 3rd place, Gold medal <p>In-School: Teresa M Y Yang Subject Prize in Mathematics 2021</p> <p>Top scorer in grade in mathematics academic performance</p>
Skillset	<p>Languages – English (fluent), Cantonese (fluent), Mandarin (fluent), Japanese (basic)</p> <p>IELTS Overall Band: 8.0</p> <p>Programming languages – Python, C#, JavaScript</p> <p>Deep learning and Machine learning – Pytorch and Keras</p> <p>Computer modelling – Autodesk Sketchup and Blender</p> <p>Video editing – Davinci Resolve</p>

	<p>Choral music – Chairman, School Senior Mixed Voice Choir Chairman in regionally renowned 60-person choral ensemble, leader of Tenor part, initiated 2 a cappella and madrigal groups, won 2 gold World Choir Games medals and 3 team awards in Hong Kong Schools Music Festival, first division, 6 hrs/wk</p> <p>Project Contributor, School Artificial Intelligence Project Team Collaborated with like-minded members on AI research projects, participated in national research competitions, contributed to AI publication</p> <p>Musical Instruments ABRSM Grade 8 for both piano and violin</p>
Hobbies	<p>Music covers and orchestration Created orchestral and 8-bit covers of popular franchises, acquired 50k+ views for published YouTube videos Proficiency in DAWs such as Cubase and Soundation</p> <p>Other hobbies</p> <ul style="list-style-type: none"> - Digital art (Procreate, Clip Studio Paint) - Photography - Tennis (~4 years)
Publications	<p>From an Eye to a Face: A novel approach to surveillance and identity reconstruction Tse, Y. L., Jok, R., Ng, P., and Lee, I. (2021) https://github.com/SpccAIPG/2019-2020/blob/b9b215792d0447adac5cb49f78a4e785323dad2d/DOCS/PDF/From%20an%20Eye%20to%20a%20Face%20A%20Novel%20Approach%20to%20Surveillance%20and%20Identity%20Reconstruction.pdf</p>