

Sorawich Jatupornmongkol

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Bangkok, Thailand

Education

The Chinese University of Hong Kong

Bachelor of Science – Major in Chemistry, Minor in Physics

Graduated with First Class Honours

Enrichment Stream

Science, Technology, and Research Stream (STARS)

Graduation Date: 07/2025

GPAX: 3.50/4.00

Mahidol Wittayanusorn School

High School Diploma

Graduation Date: 03/2021

GPAX: 3.97/4.00

Research Experiences

Undergraduate Thesis: Computational Study of Water Clusters using DeePKS

- Machine Learning Assisted Density Functional Theory

The Chinese University of Hong Kong

Hong Kong SAR

06/2024 - 05/2025

- Conducted a study on an analysis of calculation performance of DFT using machine learning
- Engaged in model testing and model application.

Research Assistant

The Chinese University of Hong Kong

Hong Kong SAR

8/2024 - 02/2025

- Conducted a research in machine learning usage in spectra detection of compound and mixture.

Research Assistant

The University of Warwick

Coventry, United Kingdom

7/2023 - 9/2023

- Collaborated with a research team to conduct experiments in the field of solid state chemistry. Aimed to synthesize the brand new solid in a group of beta pyrochlore. Assisted in experimental and synthesis preparation.

Work Experiences

Rittayawannalai School

Competition Supervisor

Bangkok, Thailand

6/2022 - Present

- Supervised secondary school students to pursue awards in science olympiad in Thailand. Prepared students to be mentally and academically ready for competition.

Dek-D Interactive Co., Ltd.

Academic Outsourcing

Bangkok, Thailand

9/2021 - 12/2023

- Coordinated and proofread mock exam for university entrance, including chemistry, physics, and medical exam.

Education Technology Co., Ltd. (StartDee)

Academic Outsourcing

Bangkok, Thailand

3/2022 - 11/2022

- Coordinated and proofread the chemistry content on online learning platform
- Set up mock exam for university entrance in chemistry.

Projects

Chemistry Book

6/2024 - Present

- Wrote every topic of undergraduate chemistry level in Thai language.
- Aimed to enhance a quality of chemistry education by writing state-of-the-art chemistry book in Thailand.

Chemistry Project: Determining Drinking Water Quality around Campus using Analytical Technique

03/2024 - 11/2024

- Determined the drinking water quality using chemically analytical technique such as ICP-OES, Ion chromatography.

Physics Project: Quantum Interference with Polarization Interferometer

5/2019 - 3/2020

- Set up the prototype of quantum interferometer based on polarization interference.
- Analyzed the pattern of interference and polarization.

Awards and Honors

2025

- First Class Honours Graduation

2024

- Chemistry Alumni Scholarship
- Professor M.S. Tsao Memorial Scholarship
- Intra-Varsity Dance Competition: 1st runner-up

2023

- Dean's List
- Research Exchange Scholarship for STARS Students
- Thomas K. Lew Memorial Scholarship
- Lau MK Scholarship

2022

- The Hong Kong, China – Asia-Pacific Economic Cooperation Scholarship
- Faculty Admission Scholarship for Science Students
- Talent Development Scholarship
- Honours at Entrance Scholarship

Extracurricular Activities

2024

- CUHK-NTU Chemistry Joint Workshop: Participants and Helpers
- International Cultural Ambassador: Ambassador
- CUHK Modern Dance Society: University Representative in Intra-Varsity Dance Competition
- High School Chemistry Facebook Group: Admin of 100k members group

2023

- CUHK Modern Dance Society: Main Team Member in Mass Dance
- Association of Thai Student in Hong Kong (ATSHM): President
- Thai Student Association of CUHK: IT Manager

2022

- Chung Chi International Student (CCIA): Secretary
- Association of Thai Student in Hong Kong (ATSHM): Assistant Secretary
- High School Prom Night Organizer: President
- 18th Thailand Chemistry Olympiad: Exam Tester and Laboratory Helper

Additional

Proficiencies

- Moderately proficient in these following programming languages: C, C++, Python, CSS, Javascript.
- Experienced in data analysis related to chemistry using Excel, MATLAB, Gaussian, Chemdraw, and machine learning.
- Strongly proficient in interdisciplinary scientific theory.
- Moderately proficient in public speaking and ppt presentation.
- Fluent in Thai and English languages.