HUANG Tin Yeh (Heaven)

Department of Industrial and Systems Engineering, Faculty of Engineering,

The Hong Kong Polytechnic University, Hong Kong SAR, China, 999077

+852 9449 8934 ◇ +86 198 9655 5044 ◇ https://tyhuang.hk

tin-yeh.huang@connect.polyu.hk ◇ hty25@mails.tsinghua.edu.cn ◇ huangtianye@mails.x-institute.edu.cn

EDUCATION

The Hong Kong Polytechnic University — Hong Hum, Kowloon, Hong Kong SAR
B.Eng. (Hons) in Product Engineering with a Second Major IE — *September 2025 - May 2028 (Expected)*
B.Eng. (Hons) Scheme in Product and Industrial Engineering — *September 2024 - August 2025*
Associate in Statistics and Data Science — *September 2023 - August 2024*

Tsinghua University (Exchange) — Beijing, China
B.Eng. in Creative Design and Intelligent Engineering — *September 2025 - January 2026 (Scheduled)*

Tsinghua TEEP & X-Institute — Beijing, China
Jointed Training Research Scholar (Track of Social Innovation) — *September 2024 - May 2028 (Expected)*
Supervisor: Prof. Ming TANG

Shenzhen Medical Academy of Research and Translation — Shenzhen, Guangdong, China
Visiting Research Student - Mingxu Hu's Lab — *June 2025 - July 2025*
Supervisor: Dr. Mingxu HU (PI), Dr. Qi ZHANG

Exchange
1) Semester Exchange (2025/2026 Semester 1), Tsinghua University — *September 2025 - January 2026*
2) Social Innovation Training, Tsinghua TEEP & X-Institute & ByteDance Ltd. & Accenture Co. Ltd. — *January 2025*
3) AI Winter School 2025, Center for the Fundamental Physics of the Universe & Brown University — *January 2025*
4) 2024 Ministry of Education of PPC Teacher and Student Exchange Plan - Human-machine Shared Control Intelligent Car Project, Northeastern University & The Hong Kong Polytechnic University — *December 2024*
5) X-Challenge 2024: Interdisciplinary Cutting-edge Disruptive Innovation Challenge, Tsinghua TEEP & X-Institute — *June 2024 – July 2024*
6) X-Idea 2023: X-Institute International Summer School, Tsinghua TEEP & X-Institute — *June 2023 – July 2023*

PUBLICATIONS

Wang, X.[*], **Huang, T. Y.**, Jiang, Z., Wang, Y. "*Bio-Cryptography: Dual Deep Learning Framework for Protein Watermarking via Geometric-Chemical Fingerprinting*" International Conference on Machine Learning (ICML) 2025 Workshop on NewInML
`https://openreview.net/forum?id=ytGQdYnvn4` — *2025*

Wang, Y.[*], Wang, J., **Huang, T. Y.**, Yang, J., Yang, G., Xu, Z. "*STGCN-LSTM for Olympic Medal Prediction: Dynamic Power Modeling and Causal Policy Optimization*" International Conference on Machine Learning (ICML) 2025 Workshop on NewInML
`https://openreview.net/forum?id=HOKfFNisPe` — *2025*

Wang, Y.[*], Cai, M., **Huang, T. Y.** "*AI for Disease Prediction: Performance Insights and Key Limitations*" *Journal of Clinical Neuroscience* 138, 111360
`https://doi.org/10.1016/j.jocn.2025.111360` — *2025*

Wang, X.[*], Wang, Y.[+], **Huang, T. Y.**[+] "*Crypto-ncRNA: Encryption Algorithm Based on Non-Coding RNA (ncRNA)*" International Conference on Learning Representations (ICLR) 2025 Workshop on AI for Nucleic Acids (NA)
`https://openreview.net/forum?id=j6ODUDw4vN` — *2025*

[*] *First Author*   [+] *Co-First Author*

ACADEMIC PARTICIPACTION

Reviewer	*ICML 2025 Workshop · 2nd AI for MATH*	*2025*
Reviewer	*F1000 Research*	*2025*

WORK EXPERIENCE

Visiting Student · Cryo-EM & Cryo-ET Research — *Jun 2025 – Jul 2025*
Shenzhen Academy of Research and Translation (SMART) & Shenzhen Bay Laboratory (SZBL) Jointed Summer Internship

Member, District Youth Development and Civic Education Committee — *April 2025 – April 2027 (Expected)*
Home Affairs Department (HAD), Hong Kong SAR Government

AI Agent R&D Parttime — *March 2025 – Present*
Apricot AI Ltd.

Assistant to the President (Management & Technical Director) — *February 2025 – Present*
Hong Kong MBA Institute

AI Product & Algorithm R&D Intern — *February 2025 – Present*
Qingbei Intelligent Technology Co., Ltd.

Student Intern — *Oct 2024 – Present*
Research Centre - Data Science and Artificial Intelligence (RC-DSAI), HK PolyU

Student Assistant — *Oct 2024 – Oct 2025 (Expected)*
Knowledge Transfer and Entrepreneurship Office, HK PolyU

Student Assistant — *Mar 2023 – May 2023*
Division of Science, Engineering & Health Studies, CPCE, HK PolyU

AI & Data Trainee — *Dec 2023 – Apr 2024*
Royal Plaza Hotel (Accounting & IT Dept.)

PROJECTS

Design Optimization of Hydraulic Press Plate using Finite Element Analysis January 2016 - April 2016
Major Project as a part of curriculum
· An Industrial Defined Project in collaboration with Incredible Machines, Rajkot
· Designed and performed an FEA analysis of the plates of Hydraulic machine with the capacity of 250-ton
· Optimization in terms of design and material reduction, leading to cost effectiveness, considering minimum
  deformation of plates during operation

Head coordinator of Mechanical section at Robotics club *July 2015 - May 2016*
Sanjaybhai Rajguru College of Engineering
· A college level Robotics club established by students with the aim of learning and professional skill development
  among students and peers
· Lead in Mechanical work of Robotics club, working mostly with CAD and Hardware systems
· Team leader and active member working to develop various robots of different concepts and configurations

VOLUNTEERING

Master of Ceremonies – 75th PRC National Day Luncheon *Oct 2024*
Hong Kong Federation of Trade Unions (HKFTU)

Student Representative of B.Eng. (Hons) Product and Industrial Engineering (45498-PIE) *September 2024 – Now*
Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University

Student Representative of Associate in Statistics and Data Science (8C112-SDS) *September 2023 – August 2024*
Division of Science, Engineering, and Health Studies (SEHS), College of Professional and Continuing Education (CPCE), PolyU

Student Assistant, CPCE, HK PolyU (Social Service Hours > 30 Hours) *October 2023 – October 2024*

ACHIEVEMENTS

HKSAR Government Scholarship Fund – Reaching Out Award (ROA)	*2025*
PolyU Entry Scholarship (The Hong Kong Polytechnic University)	*2024*
Microsoft Certified: Azure AI Fundamentals	*2021*

SKILLS AND INTERESTS

Computer-based	Python (Pandas, PyTorch, TensorFlow, etc.), C++, SQL, SAS, R, CAD&CAE (SolidWorks), Adobe (Photoshop, Illustrator, InDesign), IMOD, PyMol, ChimeraX, LaTeX, MS Office
Manufacturing	Additive Manufacturing(FDM, SLA, SLS, etc.), Reverse Engineering, Quality Engineering, Robotics (Arduino/Raspberry Pi), Benchwork, Engineering Drawing
Business	Engineering Economics, Management and Organization, Marketing, Market Analysis, Engineering Law
Soft skills	Product & Industrial Design, Product Development, Project Management, Design Thinking, Design for Many(Optimizing, Manufacturing, Sustainability, etc.), Human-centered Design
Languages	Cantonese/Mandarin (Native), English (Fluent)

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.