

# Ching Nam HANG

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Email: cnhang@sfu.edu.hk

Website: <https://chingnhang.github.io>

Yam Pak Charitable Foundation  
School of Computing and Information Sciences  
Saint Francis University, 2 Chui Ling Lane  
Tseung Kwan O, New Territories, Hong Kong

## Education

### **City University of Hong Kong**

Ph.D. in Computer Science, 2024

B.S. in Computer Science, Data Science Stream (First Class Honors), 2019

## Experience

### **Saint Francis University**

Programme Leader of HD in Crime and Security Science, 6/2025 – Present

Assistant Professor of Computing and Information Sciences, 8/2024 – Present

Affiliated Research Scholar, Data Science Research Centre, 11/2023 – Present

### **Caritas Institute of Higher Education**

Lecturer, School of Computing and Information Sciences, 11/2023 – 7/2024

### **City University of Hong Kong**

Research Assistant, 9/2023 – 10/2023

### **Tencent AI Lab (Shenzhen)**

Machine Learning Center Research Intern, 8/2018 – 1/2019

### **City University of Hong Kong**

Student Assistant, 6/2017 – 7/2018

### **Nautilus Software Technologies Limited**

Co-Founder, Chief Executive and Senior Software Engineer, 2018 – 2022

## Research Interests

- Network Science and Graph Analytics
- Data Mining and Machine Learning
- Artificial/Computational Intelligence
- Data Science/AI for Health-Tech and Ed-Tech

## Teaching

### Saint Francis University

- CIS320 Network, Cloud, and Security (Spring 2024 – Present), Lecturer
- CIS245 Introduction to Data Science (Fall 2024 – Present), Lecturer (course developer)

- CIS100 Emerging Technologies and Data Analysis for Workplace  
(Year-round 2024 – Present), Course Coordinator  
(a university-wide AI literacy course with over 600 students each semester)

#### City University of Hong Kong

- CS6491 Convex Optimization and its Applications (2021 – 2022),  
Teaching Assistant
- GE2340 AArtificial Intelligence: Past, Present, Future (2019 – 2021),  
Teaching Assistant
- CS1102 Introduction to Computer Studies (2020), Lab Tutor

## Mentoring Experience

#### Master's Students

- (Co-supervising with Prof. Dah Ming Chiu, The Chinese University of Hong Kong)
- Jiacheng Feng: Large Language Models for Paper Review (2025 – Present)
  - Yifan Shao: Large Language Models for Paper Review (2025 – Present)

#### Undergraduate Students

(Final Year Project, Saint Francis University)

- Chun Kit Chan: Predictive Analytics for Hong Kong Horse Racing (2025 – Present)
- Kin Fung Sze, Gaganajit Singh Bajwa: AI-Based Emotion Detection for Mental Health Assistance (2025 – Present)
- Ka Yui Cheung, Kane Yin Mak, Ka Cheung Lee: Large Language Models for AI-Assisted Programming (2024 – 2025)
- Kam Wa Li: Using Large Language Models as AI Legal Advisors (2023 – 2024)

## Funding

#### Hong Kong RGC Faculty Development Scheme (FDS)

PI: Harnessing Large Language Models for Social Trust: Automated Fact-checking for Public Health Informatics by Large Language Models, HK\$766,115 (1/1/2026 – 31/12/2028)

#### Hong Kong RGC Institutional Development Scheme (IDS) Collaborative Research Grant

Co-I: Dynamic Stability Monitoring and Control of Construction Tower Cranes using Digital Triple AI and IoT, HK\$2,945,543 (1/1/2025 – 31/12/2027)

#### Hong Kong Science and Technology Parks Corporation (HKSTP)

PIC: Incu-Tech Programme, HK\$1,290,000 (03/2020 – 09/2021)

## Publications

### Journal Articles

**C. N. Hang**, P. -D. Yu and C. W. Tan, *TrumorGPT: Graph-Based Retrieval-Augmented Large Language Model for Fact-Checking*, IEEE Transactions on Artificial Intelligence, Vol. 6, No. 11, pp. 3148-3162, 2025.

**C. N. Hang**, P. -D. Yu, R. Morabito and C. W. Tan, *Large Language Models Meet Next-Generation Networking Technologies: A Review*, Future Internet, special issue on Featured Papers in the Section Internet of Things, Vol. 16, No. 10, 2024. (Invited Paper) [5-Year Impact Factor: 3.5] (**Editor's Choice**)

**C. N. Hang**, C. W. Tan and P. -D. Yu, *MCQGen: A Large Language Model-Driven MCQ Generator for Personalized Learning*, IEEE Access, Vol. 12, pp. 102261-102273, 2024.  
[5-Year Impact Factor: 3.9] (**Featured Article**)

**C. N. Hang**, P. -D. Yu, S. Chen, C. W. Tan and G. Chen, *MEGA: Machine Learning-Enhanced Graph Analytics for Infodemic Risk Management*, IEEE Journal of Biomedical and Health Informatics, Vol. 27, No. 12, pp. 6100-6111, 2023.  
[5-Year Impact Factor: 7.0] [Acceptance Rate: 14.4%]

**C. N. Hang**, Y. -Z. Tsai, P. -D. Yu, J. Chen and C. W. Tan, *Privacy-Enhancing Digital Contact Tracing with Machine Learning for Pandemic Response: A Comprehensive Review*, Big Data and Cognitive Computing, special issue on Digital Health and Data Analytics in Public Health, Vol. 7, No. 2, 2023. (Invited Paper)  
[5-Year Impact Factor: 4.2] (**Best Paper Award**)

M. F. Wong, S. Guo, **C. N. Hang**, S. W. Ho and C. W. Tan, *Natural Language Generation and Understanding of Big Code for AI-Assisted Programming: A Review*, Entropy, special issue on Statistical Machine Learning with High-Dimensional Data and Image Analysis, Vol. 25, No. 6, 2023. (Invited Paper) [5-Year Impact Factor: 2.2] (**Editor's Choice**)

### Conference / Workshop Papers

**C. N. Hang**, P. -D. Yu, C. W. Tan and D. M. Chiu, *When Ideas Go Viral: Measuring Scholarly Novelty and Viral Influence via Citation Network Analysis*, IEEE Global Communications Conference (GLOBECOM), 2025.

**C. N. Hang**, P. -D. Yu, C. W. Tan and D. M. Chiu, *Beyond Search: Measuring LLM Performance for Scientific Literature Discovery*, IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE), 2025.

**C. N. Hang** and S. M. Ho, *Personalized Vocabulary Learning through Images: Harnessing Multimodal Large Language Models for Early Childhood Education*, IEEE Integrated STEM Education Conference, 2025.

**C. N. Hang**, P. -D. Yu and C. W. Tan, *TrumorGPT: Query Optimization and Semantic Reasoning over Networks for Automated Fact-Checking*, 58th Annual Conference on Information Sciences and Systems (CISS), 2024.

C. W. Tan, S. Guo, M. F. Wong and **C. N. Hang**, *Copilot for Xcode: Exploring AI-Assisted Programming by Prompting Cloud-based Large Language Models*, IJCAI Symposium on Advances and Open Problems in Large Language Models (LLM@IJCAI'23), 2023.

J. Li, C. W. Tan, **C. N. Hang** and X. Qi, *A Chatbot-Server Framework for Scalable Machine Learning Education through Crowdsourced Data*, ACM Conference on Learning at Scale, 2022.

C. W. Tan, L. Ling, P. -D. Yu, **C. N. Hang** and M. F. Wong, *Mathematics Gamification in Mobile App Software for Personalized Learning at Scale*, IEEE Integrated STEM Education Conference, 2020.

C. -Y. Kuo, **C. N. Hang**, P. -D. Yu and C. W. Tan, *Parallel Counting of Triangles in Large Graphs: Pruning and Hierarchical Clustering Algorithms*, IEEE High Performance Extreme Computing Conference, 2018.  
**(Honorable Mention Award)**

#### Book Chapters

**C. N. Hang**, P. Yu and C. W. Tan, *Parallel Counting of Subgraphs in Large Graphs: Pruning and Hierarchical Clustering Algorithms*, in Online Social Networks: Perspectives, Applications and Developments, Nova Science Publishers, 2020.

M. F. Wong, **C. N. Hang** and C. W. Tan, *The Pagerank Bipartite Graph Ranking: Online Chat Group Recommendation*, in Online Social Networks: Perspectives, Applications and Developments, Nova Science Publishers, 2020.

## Awards and Fellowships

### **Best Paper Award**

*Big Data and Cognitive Computing, 2025*

### **Outstanding Academic Performance Award (Ph.D. Studies)**

*City University of Hong Kong, 2023*

**Certificate of Merit (Undergraduate Dissertation)**, The Hong Kong ICT Awards 2020: Student Innovation  
*The Hong Kong Association for Computer Education, 2020*

**Bright Future SME's Youth Creative Entrepreneurship Award**  
*The Hong Kong General Chamber of Small and Medium Business, 2020*

**Silver Award (Undergraduate Dissertation)**, HKEIA Innovation & Technology Project Competition Award  
*Hong Kong Electronic Industries Association (HKEIA), 2019*

**Best Poster Presentation Award (Undergraduate Dissertation)**  
*City University of Hong Kong, 2019*

**Dean's List**  
*City University of Hong Kong, Sem A of 2016/2017 and Sem B of 2018/19*

**Second Place Winner**, Zoohackathon 2019: Combating Wildlife Trafficking Through Innovation and Technology  
*The United States Department of State, 2019*

**Merit Prize and Video Award - Best Video Shooting**  
*HSBC Future Skills Development Project - InnoTech Solutions Pitching, 2019*

**ASM Pacific Technology Scholarship**  
*City University of Hong Kong, 2019*

**Talent Development Scholarship**  
*HKSAR Government Scholarship Fund, 2019*

**Honorable Mention**, MIT/Amazon/IEEE Graph Challenge 2018  
*Massachusetts Institute of Technology (MIT), Amazon, IEEE, 2018*

**Second Prize**, 2018 Intel Cup Undergraduate Electronic Design Contest  
*Intel, 2018*

**Mr Clement Cheuk Scholarships**  
*City University of Hong Kong, 2018*

**Shanghai Commercial Bank Scholarships**  
*City University of Hong Kong, 2018*

**Microware Scholarship**  
*City University of Hong Kong, 2018*

**Reaching Out Award**

*HKSAR Government Scholarship Fund, 2017*

**Excellent Academic Performance Scholarships for CSE Students**

*City University of Hong Kong, 2017*

**The Department of Computer Science Entrance Grants**

*City University of Hong Kong, 2017*

Professional  
Services

**Journal Editor**

- JMIRx Med

**Journal Editorial Board Member**

- Scientific Reports

**Journal Reviewer**

- IEEE Transactions on Cognitive Communications and Networking
- IEEE Transactions on Learning Technologies
- IEEE Access
- Journal of Medical Internet Research (JMIR)
- ACM Transactions on Software Engineering and Methodology
- BMC Archives of Public Health, Health Information Systems
- Artificial Intelligence Review
- Scientific Reports
- Electronics
- Mathematics
- Education Sciences
- Big Data and Cognitive Computing
- Applied Sciences
- Signal, Image and Video Processing
- Natural Language Processing Journal
- Journal of Educational Data Mining
- The Hong Kong Journal of Social Work
- Information Sciences
- Neurocomputing
- Publications
- Healthcare Analytics
- Expert Systems with Applications
- Intelligent Systems with Applications
- Journal of Theoretical and Applied Electronic Commerce Research
- Knowledge and Information Systems
- Neural Processing Letters
- Current Research in Physiology
- Archives of Computational Methods in Engineering

- Heliyon
- Future Internet
- Journal of Big Data
- Multimedia Systems
- SoftwareX
- Robotics
- Information
- Journal of Industrial Information Integration
- Information Processing and Management
- Discover Applied Sciences
- Journal of Cleaner Production
- Information Processing in Agriculture
- Journal of ICT Research and Applications
- Journal of Autonomous Intelligence
- Journal of Ambient Intelligence and Smart Environments

#### **Conference Session Chair**

- 2025 IEEE Global Communications Conference
- Session: AI-enabled Network Resource Management

#### **Technical Program Committee Member**

- 2026 IEEE Global Engineering Education Conference (EDUCON 2026)
- ACL 20th Workshop on Innovative Use of NLP for Building Educational Applications (BEA), 2025
- The 18th International Conference on Educational Data Mining (EDM 2025), 2025
- 2025 IEEE Global Engineering Education Conference (EDUCON 2025)
- The International Conference on Foundation and Large Language Models (FLLM2024), 2024
- ACL 19th Workshop on Innovative Use of NLP for Building Educational Applications (BEA), 2024
- The 17th International Conference on Educational Data Mining (EDM 2024), 2024
- The International Symposium on Foundation and Large Language Models (FLLM2023), 2023
- ACL 18th Workshop on Innovative Use of NLP for Building Educational Applications (BEA), 2023

#### **Conference Reviewer**

- IEEE International Conference on Teaching, Assessment and Learning for Engineering 2025 (TALE 2025)
- IEEE Frontiers in Education 2024, 2025 (FIE 2024, 2025)
- The 6th International Conference on Informatics Engineering & Information Science (ICIEIS 2024)

**Vice Chairman and Director of Data Science Innovation**  
NASA Space Apps Challenge Hackathon in Hong Kong, 2019 – 2021

**Math Facilitator**  
Julia Robinson Math Festival in Hong Kong, 2017 – 2019

Media Coverage Talk on Artificial Intelligence in Cybersecurity, Hong Kong True Light College, March 2025. Featured in [HK01](#).

Launch of Crime and Security Science Programmes, Saint Francis University, April 2025. Featured in [HK01](#).

Articulation and Future Career Opportunities in Crime and Security Science, 2025. Featured in Ming Pao [\[1\]](#) [\[2\]](#) [\[3\]](#).

Languages Chinese (Written, Spoken), English (Written, Spoken), Cantonese (Native)