Ching Nam HANG

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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, 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. [5-Year Impact Factor: 3.5]

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. [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.
[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 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

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)