

Research Interests: Graph Analytics and Machine Learning Inference

EDUCATION **School of Computing and Data Science, HKU** Hong Kong SAR
Ph.D. in Computer Science 2023 - 2027 (*expected*)
• Advisor: Prof. Reynold Cheng

School of Computing and Data Science, HKU Hong Kong SAR
B.Sc. in Mathematics and Decision Analytics 2018 - 2022
• 1st Class Honor

PUBLICATIONS

[4] **On Aggregation Queries over Predicted Nearest Neighbors.**
Carrie Wang, Sihem Amer-Yahia, Laks V.S. Lakshmanan, Reynold Cheng.
arXiv preprint.

[3] **A Sampling-Based Framework for Hypothesis Testing on Large Attributed Graphs.**
Carrie Wang, Chrysanthi Kosyfaki, Sihem Amer-Yahia, Reynold Cheng.
VLDB 2024.

[2] **HINCare: An Intelligent Helper Recommender System for Elderly Care.**
Carrie Wang, Wentao Ning, Xiaoman Wu, Reynold Cheng.
WWW 2024.

[1] **Using a Novel Clustered 3D-CNN Model for Improving Crop Future Price Prediction.**
Liege Cheung, Carrie Wang, Adela SM Lau, Rogers MC Chan.
Knowledge-Based Systems 2023.

PROJECTS

An Emotional AI Chatbot Using an Ontology and a Novel Audiovisual Emotion Transformer for Improving Nonverbal Communication. 2022.08 - 2023.02
HKU SAAS Data Science Lab *Supervisor: Dr. Adela Lau*

TCGConv - Edge Representation Learning in Temporal Graph. 2022.05 - 2022.07
NUS Institute for Mathematical Sciences *Supervisor: Dr. Zhang Wenjie*

INTERNSHIPS	KPMG China Hong Kong SAR <div> 2021.01 - 2021.08 <ul style="list-style-type: none"> • Studied Robotic Processing Automation (RPA) in two weeks and applied it to migrate 4000+ legacy data with 98% success rate for a luxury company. • Got certified in Microsoft PowerApps to assist in the design phase of an internal web & mobile app implementation for a leading insurance company, finishing the web prototype in two weeks. • Configured and tested system functionalities according to the business requirements from key users, raised business cases to the technical team. • Assisted in User Acceptance Testing (UAT) by preparing how-to documents and training materials for the key users and providing feedback during key user trainings. </div>
AWARDS	<div> <div> <ul style="list-style-type: none"> • HKU Postgraduate Scholarships • First Class Honours • Dean's Honors List • Yu Kam Tim Chan Siu Hing Award in AI and DS • HKU Foundation Entrance Scholarship </div> <div> 2023 - 2027 2023 2019 & 2022 2020 - 2021 2018 - 2022 </div> </div>
SKILLS	<p>Languages: Chinese, English, Cantonese (Intermediate).</p> <p>Programming: Python, C++, R, MATLAB.</p> <p>Certificate: Teaching and Learning in Higher Education.</p>
TEACHING	<div> <ul style="list-style-type: none"> • Introduction to Database Management Systems (TA) • Big Data Management (TA) • Probability and Statistics (TA) </div> <div> Fall 2024 Spring 2024 Fall 2020 </div>