CARRIE WANG 王韵

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https://carrieww.github.io

Research Interests: Data Management, Graph Analytics, 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
- Visiting at LIG - Université Grenoble Alpes (2024.05 - 2024.06)

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 (Submitted to VLDB 2025).

[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   2021.01 - 2021.08

- 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.

AWARDS

- HKU Postgraduate Scholarships   2023 - 2027
- First Class Honors   2023
- Dean's Honors List   2019 & 2022
- Yu Kam Tim Chan Siu Hing Award in AI and DS   2020 - 2021
- HKU Foundation Entrance Scholarship   2018 - 2022

SKILLS

Languages: Chinese, English, Cantonese (Intermediate).

Programming: `Python`, `C++`, `R`, `MATLAB`.

Certificate: Teaching and Learning in Higher Education.

TEACHING

- Introduction to Database Management Systems (TA)   Fall 2024
- Big Data Management (TA)   Spring 2024
- Probability and Statistics (TA)   Fall 2020