



WANG YUN 王韵 (Carrie)

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EDUCATION

The University of Hong Kong (HKU)

Hong Kong, China

Bachelor of Science, Double Major in Mathematics and Decision Analytics

Sep 2018–Present, Senior

- **CGPA:** 3.73/4.30; HKU Foundation Entrance Scholarship 2018–2022; Dean's Honors List 2018–2019, 2021–2022; Yu Kam Tim Chan Siu Hing Award in Artificial Intelligence and Data Science 2020–2021
- **Related Courses:** CS (Python, C++, Algorithm, DB), Applied Math (Operations Research, Numerical Analysis), Statistics (R, ML)
- Teaching Assistant of STAT 2601, an introductory statistics course 2020–2021; Student Peer Advisor 2021–2022

RESEARCH EXPERIENCE

TCGConv: Edge Representation Learning in Temporal Graph

NUS, Singapore

Supervisor – Dr. Zhang Wenjie, Lead Data Scientist at Grab, Ph.D. at National University of Singapore

May 2022 – Jul 2021

- Designed a novel framework Temporal Conjugate Graph Convolution (TCGConv) for edge representation learning in heterogeneous temporal graphs, leveraging on Conjugate Graph Transformation (CGT) and temporal (LSTM) aggregators in message passing.
- Constructed a model using the framework and two baseline models using Python Geometrics.
- Ran extensive experiments on two public datasets with different experimental settings which are specially designed according to industrial practice to alleviate the computational complexity of CGT.
- Preparing a conference paper as first author;

Using a Novel Clustered 3D-CNN Model to Improve Crop Future Price Prediction

HKU, Hong Kong

Semester-long Individual Capstone project

Dec 2021 – May 2022

- Designed a Clustered 3D-CNN model, which can utilize multiple covariates with different frequency measurements.
- Constructed it and a 2D counterpart using PyTorch to predict one-day-ahead futures prices of five selected commodities.
- Conducted extensive experiments and compared the model performance with a baseline ARIMA model using RMSE and MAPE.
- Preparing a journal paper as second author;

PROFESSIONAL EXPERIENCE

KPMG China

Central, Hong Kong

Trainee Consultant in Technology Consulting Department

Jan 2021 – Aug 2021

- **Learning Ability:** Learned RPA in two weeks and applied UiPath 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, independently conducting functional feasibility tests and building the web prototype in two weeks.
- **Client-centric Oriented and communication:** Configured and tested system functionalities according to the business requirements from key users, raised business cases to the technical team; Prepared training materials for key users, collected issues during key user trainings, assisted in UAT tests and prepared related how-to documents for the global headquarter.
- **Research and Presentation:** Conducted one-month research on 5G adoption in the financial industry, shared an one-hour presentation in the department meeting with 30+ colleagues.

Jiligualla Culture Media Co., Ltd

Shanghai, China

Strategy Department User Research Assistant

Jun 2020 – Sep 2020

- **Research and analysis of competitive products:** Continuously tracked and analyzed the operation, curriculum, competitive advantage, user evaluation, marketing, and other dimensions for over 10 competitors.
- **User Research:** Conducted 20 user interviews, taken interview notes, summarized five core suggestions, and submitted for product optimization; assisted in the usability test of a new version of product, outputting the final analysis report in slides.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

China Education Association (HKU Student Union)

HKU, Hong Kong

a registered NGO and a student association at HKU, providing quality education for poor rural children in Mainland China

Director of the Research Program

Feb 2019 – May 2020

- **Management and organization of large-scale events:** Cooperated with an organization in participating in the **Tencent Giving Day** and raised more than 13,000 yuan in three days through various marketing channels, including WeChat public account, WeChat short videos (> 100,000 playbacks), ranked top among all partner institutions.

SKILLS AND INTERESTS

Language: English (Fluent, TOEFL: 107); Mandarin (Native); Cantonese (Intermediate); GRE (325, Verbal 158, Math 167, AW 4)

Computer Skills: Microsoft Office, Python, Latex (proficient in Tikz), Github, SQL, R, C++/C (wrote a texted-based game “Magic Tower”), Robotic Process Automation; Certified in Microsoft Azure, Microsoft Power Platform App Maker Associate