

# 王稷尧 Jiyao Wang

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Research Interest: Data Mining & Natural Language Processing

## SUMMARY

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Computer science student and data science enthusiast, dedicated to finding treasure from data. Experienced in data development, employing algorithms to achieve system optimization or resolving real-world issue, and delivering results on tight conditions. Zealous volunteer passionate about public benefit activities.

## EDUCATION

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**Hong Kong University of Science and Technology** 2022.09 - 2025.07

Ph.D in Intelligent Transportation

Accepted offer.

**Hong Kong University of Science and Technology** 2021.09 - 2022.06

M.S in Big Data Technology

Core Coursework: Big Data Computing, Data Visualization, Parallel Programming, Machine Learning, Data Mining and Knowledge Discovery, etc.

**Sichuan University** 2017.08 - 2021.05

B.E in Software Engineering

Core Coursework: Object-Oriented Programming, Data Structure and Algorithmn, Computer Network, etc.

## PUBLICATIONS

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[1] Preciser Comparison: Augmented Multi-layer Dynamic Contrastive Strategy for Question Classification. 2022 Conference on Neural Information Processing Systems. First author in progress

[2] Multi-Aspect co-Attentional Collaborative Filtering for Extreme Multi-label Text Classification. 2022 International Conference on Computational Linguistics. First author in progress

[3] An Multi-Aspect Attentional Model To Capture Multistratal Influence In Social Group, 2021 IEEE International Conference on Electronic Information Engineering and Computer Science. First author published

[4] Adversarial Social Recommendation With Capturing Multi-Modal Views Of Social Friends, 5th International Conference on Electronic Information Technology and Computer Engineering. Third author published

## RESEARCH EXPERIENCE

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**Research Assistant in HKUST Transportation Behavioural Psychology and Safety Lab** 2022.03 - Present

- Under the supervision of Prof. Dengbo He, I lead a project on modeling and evaluating drivers' trust in electric vehicle battery systems.
- The main areas and methods covered include ergonomics and applied statistics.

**Research Assistant in HKUST Database Research Group** 2021.10 - 2022.02

- This group is led by Prof.Lei Chen in HKUST. The main content is participating AI/DM competitions cooperating with a senior PhD. In both an AutoML competition held by Tencent and ATEC2021 which is related to identifying Internet fraud reports, my team's solution got top20% performance.
- Currently, I am participating in optimizing one of our lab's models in the OGB(Open Graph Benchmark).

## PROFESSIONAL EXPERIENCE

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<b>Meituan</b>	2021.06 - 2021.09
Autonomous Vehicle Algorithm Intern	Beijing
<ul style="list-style-type: none"><li>Utilized C++ to design and develop obstacle decision models, hoping to improve the decision jitter in the face of various types of obstacles</li><li>Applied the clustering method to analyze and simulate the reasons for the jitter in the decision of autonomous vehicles when facing obstacles in the real environment</li><li>Employed Hive SQL and PySpark to complete the evaluation index construction of the obstacle decision model, designed and built the required database and the optimal decision validation set</li></ul>	
<b>DiDi</b>	2021.03 - 2021.06
Data Operations Intern	Chengdu
<ul style="list-style-type: none"><li>Using Hive SQL to complete the design and construction of related relational databases, and performing required data extraction; applying machine learning and statistical knowledge to clean up and process the sales data to provide data visualization and conclusions</li><li>utilizing Python to analyze the user behavior data of the platform, and participating in the completion of the platform user hierarchy analysis report</li></ul>	

## PROJECT EXPERIENCE

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<b>ICM2021 Big Data Analysis of Music Genre Evolution</b>	2021.10 - 2021.12
This project is based on the 2021 American College Students Mathematics Modeling Competition, using Hive+PySpark, deployed on 3 Linux servers, and completed the construction of data warehouse, data cleaning and basic analysis of style and genre evolution. I am mainly responsible for big data environment configuration, Hive database design, data extraction and analysis by tools in PySpark	
<b>KDD Cup 2021 Time Series Anomaly Detection</b>	2021.10 - 2021.12
The project is provided on KDD Cup 2021, and the goal is to build a model that can automatically detect anomalies in time series through unsupervised learning methods. I mainly completed the Matrix Profile time series feature extraction, the Forecast-based LSTM time series anomaly detection sub-model, and the weighted ensemble model. The final Accuracy is around 71	
<b>Sichuan Provincial Statistics Bureau's Innovative Tech Platform</b>	2020.09 - 2020.11
Took charge of platform's construction using PyQt and MySQL for the calculation and display of innovative economic indicators of Sichuan province. Deployed a downloadable Windows APP on cloud servers and obtained the software copyright	
<b>E-commerce Platform Portal Construction Based on JAVA EE</b>	2019.07 - 2019.08
Utilized Java EE and database knowledge to complete the construction of an e-commerce online shopping platform website within two weeks. Completed design and construction of the database and some functional modules, and arranged and coordinated work within the group	

## HONORS & AWARDS

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2020 Merit Student, Sichuan University	2020.09
First-class Scholarship, Sichuan University	2020.09
Successful Participant, 2020 MCM	2020.05
Second-class Scholarship, Sichuan University	2019.09