

Yijia Zheng

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Education

University of Chinese Academy of Sciences

- M.E. in Computer Technology
- Cumulative GPA: 3.79/4 (No Ranking)

Beijing, China
Sept. 2018–Jun. 2021

Jinan University

- B.E. in Software Engineering
- Cumulative GPA: 89.4/100 (Ranking: 1/56)

Guangzhou, China
Sept. 2014–Jun. 2018

Research and Work Experience

Research Assistant @ Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences

- Engaged in the research of multi-omics single-cell data integration.

Oct. 2022–present

Algorithm Engineer @ ByteDance

- Participated in the native advertising business of the game industry on TikTok.
- Implemented uplift modeling algorithms for advertising material ranking (creative optimization).
- Implemented multi-task models for user-video mapping (audience targeting).

Jul. 2021–Jun. 2022

Research Student @ Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences

- Engaged in the research of molecular optimization methods using deep graph generation model.
- Designed a graph polish paradigm which can improve both effectiveness and efficiency.
- Conducted experiments to validate the performance and explainability of the proposed method.

Jul. 2019–Jun. 2021

Research Intern @ Sensetime

- Engaged in the research of influenza prediction algorithms.

Jun. 2020–Aug. 2020

Development Intern @ Zhuhai Longtec Industrial Automatic Control System Co., Ltd.

- Developed Android program for a warehouse management system on PDA devices.

Sept. 2017–Dec. 2017

Selected Publications

Papers:

1. Jie Zhang, Pengfei Zhou, **Yijia Zheng**, Hongyan Wu. Predicting influenza with pandemic-awareness via Dynamic Virtual Graph Significance Networks[J]. Computers in Biology and Medicine, 2023: 106807. (JCR Q1, IF=6.698)
2. Chaojie Ji*, **Yijia Zheng*** (co-first author), Ruxin Wang, Yunpeng Cai, Hongyan Wu. Graph Polish: a novel graph generation paradigm for molecular optimization[J]. IEEE Transactions on Neural Networks and Learning Systems, 2021. (JCR Q1, IF=14.255)
3. Dian Gu, Dongsong Yan, Jiachun Cai, **Yijia Zheng**, Shuangrui Shi, Luyang Liu. Classroom Searching System Based On Smart Mobile Phone[C]//2017 7th International Conference on Manufacturing Science and Engineering (ICMSE 2017). Atlantis Press, 2017: 401-405.
4. Yue Lin, Rui Zhang, **Yijia Zheng**, Yunpeng Cai, Ye Li, Hongyan Wu. Enhanced View-Specific Graph Learning Framework for Multiview Clustering. (Submitted to the journal Information Fusion, JCR Q1, IF=17.564, under review)

Patents:

1. **Yijia Zheng**, Hongyan Wu, Yunpeng Cai, Chaojie Ji. 2021. Metabolic path prediction method and device, terminal device and storage medium. CN Patent Application CN112435715A. Patent Pending.
2. **Yijia Zheng**, Hongyan Wu, Yunpeng Cai, Chaojie Ji. 2020. Molecule generation method, molecule generation device, electronic device, and storage medium. CN Patent Application CN112086144A. Patent Pending.

Honours and Awards

1. National Scholarship, Ministry of Education of the People's Republic of China, China, 2017
2. Honorable Mention, Mathematical Contest in Modeling, Consortium for Mathematics and Its Applications (COMAP), the United States, 2017
3. National Second Prize Award, China Undergraduate Mathematical Contest in Modeling, China Society for Industrial and Applied Mathematics, China, 2016
4. National Encouragement Scholarship, Ministry of Education of the People's Republic of China, China, 2016
5. National Encouragement Scholarship, Ministry of Education of the People's Republic of China, China, 2015

Language Knowledge and Qualifications

- Chinese: native speaker
- English: C1 (IELTS overall score: 7.0 (Listening: 7.0, Reading: 7.5, Writing: 6.5, Speaking: 6.0))