Yujia Wang

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Research Interests

- AI for good | real-world data-driven problems.
- Understand and predict human behavior in order to provide better solutions for society.
- Leverage domain knowledge or theoretical models, such as game theory, to enhance neural network methods.

Education

Beijing Institute of Technology **Beijing, China**

Computer Science | Master's degree (work in progress) | Supervisor: Haoran Yu *2021.9 – Present*

- GPA: 3.55/4.00
- Second-class Freshman Scholarship | First-class Academic Scholarship | Excellent Student Leader of BIT

Huazhong Agricultural University **Wuhan, China**

Computer Science| Bachelor's degree ***(Honors)*** *2016.9 – 2020.6*

- GPA: 3.45/4.00 (<15%)
- Merit Student and Excellent League Member (3 years in a row) | Excellent Student Leader of HZAU

Research Experience

[1]Predicting Real-World Penny Auction Durations by Integrating Game Theory and Machine Learning

- We focus on the interactions among real bidders in penny auctions and develop a three-stage framework to predict the distributions of auction durations.
- While game theory-based and machine learning-based prediction approaches have their own drawbacks in predicting human behavior in strategic environments. Our framework integrates these two methods to address these weaknesses.
- AAAI2024 under review.

[2]NUS Summer Workshop: Depressive Community Detection and Analysis

- It's a project in the summer workshop at the National University of Singapore supervised by Prof. Hon-Wai Leong.
- As a team leader, I proposed and participated in the project "Depressive Community Detection and Analysis". We build a social network of Weibo users based on text similarity to identify potential "depressive" groups.
- My personal grade is A- (<50%).

[3]AFSBN: A Method of Artificial Fish Swarm Optimizing Bayesian Network for Epistasis Detection

- I participated in the research as a co-first author. The article is published in IEEE/ACM Transactions on Computational Biology and Bioinformatics(SCI, IF=3.702, CCF B, DOI: 10.1109/TCBB.2019.2949780)
- With mutual information and the Bayesian method, we aim to predict the interactions between genes (epistasis).

Internships

[1] Taikang Insurance Group - Active Health Lab - Data Scientist

- Clean structural data. Then use machine learning methods to predict whether there is a malicious invoice happening.
- Clean relationship mapping data in Neo4j. Then investigate potential fraud communities.

Language

- CET-4: 598 | CET-6: 601