

# Yujia Wang

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## Research Interests

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- 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

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- Beijing Institute of Technology [Project 985] 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 [Project 211] Wuhan, China  
Computer Science | Bachelor's degree (Honors) 2016.9 – 2020.6
- GPA: 3.48/4.00 (<15%)
  - Merit Student and Excellent League Member (3 years in a row) | Excellent Student Leader of HZAU

## Research Experience

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- [1] Human Behavior Prediction in Penny Auctions 2021.12 – Present
- This research focuses on a specific type of auction called Penny Auctions, aiming to predict bidder behavior.
  - Without obtaining any private information, we attempt to extract domain knowledge from limited feature information through game theory models, and then use neural networks to enhance the prediction accuracy of auction results.
  - In preparation to be submitted to AAAI2024.
- [2] NUS Summer Workshop: Depressive Community Detection and Analysis 2019.7 – 2019.8
- It's one of the summer programs at the National University of Singapore. The topic is "Mining Communities in Big-Data with Algorithms and Computational Thinking" supervised by Professor Hon-Wai Leong.
  - As the team leader, I proposed and participated in the research project "Depressive Community Detection and Analysis". We aim to construct a social network of Weibo users based on text similarity, in order to identify potential "depressive" groups through community analysis.
  - Personal grade is A- (<50%).
- [3] AFSBN: A Method of Artificial Fish Swarm 2017.10 – 2019.10  
Optimizing Bayesian Network for Epistasis Detection
- I participated in the research as the 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).
  - The article was awarded as one of the "Top Ten Innovations and Entrepreneurship Projects" (university level) in 2019.

## Language

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