Zhicheng Du

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Research Interests algorithmic game theory, information design, multi-agent systems

Education

Renmin University of China, Beijing, China 2022–2027
Ph.D. candidate, Gaoling School of Artificial Intelligence
Expected graduation: June 2027
Advisor: Zihe Wang

Central South University, Changsha, China 2018–2022
Bachelor's degree, Computer Science (Honors Program)

Employment

Research Intern, Taylor Lab, Huawei Technologies Co., Ltd.
Beijing, China June–Nov 2026

Visiting Scholar (CSC), Department of Economics,
National University of Singapore, Singapore Sept 2025–Mar 2026
Host: Yingkai Li

Awards

Best Student Paper Award, WINE[1] 2026

Conference Publications

1. Algorithmic Information Design for Searchers with Uncertain Alternatives.
   ($\alpha - \beta$) ***Zhicheng Du***, *Hu Fu, Ying Qin, and Zihe Wang.* WINE 2026
   Best Student Paper Award

2. Prices as Signals: Joint Design of Information and Pricing.
   ($\alpha - \beta$) ***Zhicheng Du***, *Yanwei Sun, Zihe Wang, and Jiahua Wu.* WINE 2026

3. More Papers More Slots: AI-Enabled Sybil Attacks in Peer Review.
   Zhicheng Du *and Zihe Wang.* DAI[2] 2026

4. SRAP-Agent: Simulating and Optimizing Scarce Resource Allocation Policy with LLM-based Agent.
   Jiarui Ji, Yang Li, Hongtao Liu, ***Zhicheng Du****, Zhewei Wei, Weiran Shen, Qi Qi, and Yankai Lin.* EMNLP[3] 2024 (Findings)

5. Competitive Information Design with Asymmetric Senders.
   ($\alpha - \beta$) ***Zhicheng Du***, *Wei Tang, Zihe Wang, and Shuo Zhang.* EC[4] 2024
   Under review at **Operations Research**

[1] Conference on Web and Internet Economics.
[2] International Conference on Distributed Artificial Intelligence.
[3] Conference on Empirical Methods in Natural Language Processing.
[4] ACM Conference on Economics and Computation.

Working Papers

1. Cold-Start Pricing of LLM Services under Two-Sided Learning.
   ($\alpha - \beta$) ***Zhicheng Du***, *Pinyan Lu, Keyu Wang, Zihe Wang, Xiang Yan, and Chunxue Yang.*

2. Going Public: Communication in Collective Decisions.
   ($\alpha - \beta$) ***Zhicheng Du***, *Yingkai Li, and Boli Xu.*

3. CHBench: A Cognitive Hierarchy Benchmark for Evaluating Strategic Reasoning Capability of LLMs.
   Hongtao Liu, ***Zhicheng Du***, *Zihe Wang, and Weiran Shen.*

4. Optimal Calibrated Signaling in Digital Auctions.
   ($\alpha - \beta$) ***Zhicheng Du***, *Wei Tang, Zihe Wang, and Shuo Zhang.*

Academic Service

Organizing Committee: IJTCS-FAW[5] 2026

Teaching Experience

Teaching Assistant – Renmin University of China

Computational Economics (Undergraduate)	Spring 2026
AI-Driven Social Science Research (Undergraduate)	Fall 2023
Mathematical Foundations of Artificial Intelligence (Graduate)	Spring 2023

[5] International Joint Conference on Theoretical Computer Science – Frontier of Algorithmic Wisdom.