QISHEN HAN

Ph.D. student in Computer Science

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 Personal Website Google Scholar in Linkedin

RESEARCH INTEREST

Computational Social Choice, Information Elicitation and Aggregation, Fair Division, Algorithmic Game Theory, Intersection on Large Language Model and Social Choice.

EDUCATION

LDOCATION	
Ph.D. in Computer Science,Rensselaer Polytechnic Institute (RPI)	Troy, NY US
	ept. 2021-Present (May. 2026 Expected
 Theoretically demonstrating the capability of strategic voting to reveal t 	
 Proposing a generalized fairness notion for resource allocation and deve 	eloping new fair allocation algorithms.
B.S. in Intelligence Science and Technology, Peking University	Beijing, Chin
A member of Turing Class GPA: 3.71/4.00	Sept. 2017 – Jun. 202
 Made up of 60 specially selected students, and supervised by Prof. Joh 	n Hopcroft
 Aim to cultivate a new generation of computer scientists who possess to application in different fields. 	heoretical knowledge and emphasize its
B.Ec. in Economics (dual degree), Peking University	Beijing, China
GPA: 3.70/4.00	Sept. 2018 – Jun. 202
PUBLICATIONS	
Average Envy-freeness for Indivisible Items [PDF]	EAAMO-23
Qishen Han , Biaoshuai Tao, and Lirong Xia	
Accelerating Voting by Quantum Computation [PDF]	UAI-23
Ao Liu, Qishen Han , Lirong Xia, and Nengkun Yu	
The Wisdom of Strategic Voting [Link] [PDF]	EC-23
Qishen Han , Grant Schoenebeck, Biaoshuai Tao, and Lirong Xia	
Anti-Malware Sandbox Games [PDF]	AAMAS-22
Sujoy Sikdar, Sikai Ruan, Qishen Han , Paween Pitimanaaree, Jeremy Black	kthorne, Bulent Yener, and Lirong Xia
NON-ARCHIVAL PAPERS	
The art of Two Round Voting	Under Review
Qishen Han , Grant Schoenebeck, Biaoshuai Tao, and Lirong Xia	
Learning to Explain Voting Rules [PDF]	Extended abstract in AAMAS-23
Inwon Kang, Qishen Han , and Lirong Xia	
Computational Complexity of Verifying the Group No-show Paradox [P	
Farhad Mohsin, Qishen Han , Sikai Ruan, Pin-Yu Chen, Francesca Rossi, ar	nd Lirong Xia

Truthful Information Elicitation from Hybrid Crowds [PDF]

Qishen Han, Sikai Ruan, Yuqing Kong, Ao Liu, Farhad Mohsin, and Lirong Xia

EXPERIENCE

Internship at Digital Insight Institute, Ipsos, Shanghai, China

• Developed an LLM-based program that summarizes a symposium to a Q&A form with a correctness rate of 80%.

Under Review

Summer 2023

• Created LLM-based virtual consumers that inherit tones, preferences, and expertise from real consumer data.

Fall 2019, Peking University

Dec. 2019, Peking University Dec. 2018, Peking University

SKILLS

Theoretical Skills

Complexity Analysis, Equilibrium analysis, Mechanism Design and analysis, Randomized/Approximation algorithm.

Programming Skills

Languages: Python, C/C++, Matlab Python Packages: Numpy, Pandas, Scipy, Scikit-learn, Langchain