QISHEN HAN

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RESEARCH INTEREST

Information elicitation, peer prediction, mechanism design, computational social choice.

EDUCATION

School of Electronic Engineering and Computer Science (EECS)
Peking University(PKU), Beijing *Sept 2017 - Present*
B.S. in Intelligence Science and Technology

- **A member of Turing Class** (Supervised by Prof. John Hopcroft; class made up of 60 specially selected students): The program aimed to cultivate a new generation of computer scientists who possess theoretical knowledge and emphasis its application in different fields
- **Overall GPA:** 89/100
- **Major GPA:** 91/100
- **Ranking: Top 8 of 91** in the department
- **Core Courses:** Randomized Algorithm (99, Top 3) / Discrete Mathematics and Structures (II) (96, Top 10) / Discrete Mathematics and Structures (I) (93.5) / Algorithmic Game Theory (93.5) / Mathematics in Information Science (93) / Information Theory (92)
- **Honor Tracks:** Algorithm Design and Analysis (Honor Track) (89)

National School of Development
PKU, Beijing (Second Major) *Sept 2018 - Present*
B.S. in Economics

- **Overall GPA:** 91/100
- **Core Courses:** Game Theory and Society (98) / Principles of Economics (98) / Econometrics (89)

TEST SCORES

- **Standard English Test:**
  - **GRE:** V-159 + Q-170 + AW-4.0
  - **TOEFL:** 111 (Reading: 29, Listening: 29, Speaking: 25, Writing: 28)

RESEARCH EXPERIENCE

Department of Computer Science, Rensselaer Polytechnic Institute, New York.
Research Assistant; Advisor: Prof. Lirong Xia *June 2020-Present*

Project: Truthful Information Elicitation without Verification from Hybrid Crowd.

- Proposed theoretical framework of information elicitation without verification where agents' level of expertise are considered
- Proposed unique criterion of t*ruthfulness* for the framework where agents of different types report truthfully separately based on information type
- Designed *composite elicitation mechanism*, a *truthful* mechanism based on peer prediction mechanisms
- Designed mathemamatitcal proof and conducted calculations
- Working on the extension of the mechanisms into other settings and agent types.

MANUSCRIPT

Sikai Ruan*, **Qishen Han***, Yuqing Kong, Ao Liu, Farhad Mohsin, and Lirong Xia, *Truthful Information Elicitation without Verification from Hybrid Crowd*, submitted for WINE 2020 poster session. (* co-first author)

NOTABLE PROJECTS

Algorithmic Game Theory *Dec 2020-Jan 2020*

Project: A Survey of Credible Mechanism and Trust Modeling

- Surveyed the topics of credible mechanisms and trust modeling
- Discussed the role of credibility on various economic scenes, including policy-making and 'cheap talk'
- Discussed trust modeling from multiple perspectives, mainly focusing on trust assessment and the properties of trust

TEACHING EXPERIENCE

Teaching Assistant to Introduction to Computer Systems (core course for undergraduates in School of EECS, PKU) *Autumn 2019*

- Course focus on the computer system's functionality and computer's inner workings, including memory, hard drive, CPU, network, etc.

AWARDS AND HONORS

Benjing Scholarship (Top 8 in AI Turing Class)	*Dec 2019*
Jingjishijie Scholarship (Top 4 in class)	*Dec 2018*
Third Prize, PKU Campus Programming Contest	*May 2019*
Student Award of Merit (Top 4 in class)	*Dec 2018*
First Prize, National Olympiad in Mathematics in Provinces	*May 2016*
Student Award of Merit for Beilin District in Xi'an	*2015*

EXTRACURRICULAR ACTIVITIES

Student Union, Department of Practice

Member *Sept 2017 - June 2018*

Deputy Chief of Department *Sept 2018 - June 2019*

- Organized school debates.
- Participated in voluntary teaching activities.

Student Union of EECS, Department of Propaganda

Member *Sept 2017 - June 2018*

- Made videos for student activities

SKILLS / INTERESTS

Programming languages: C / C ++, Python, Matlab

Hobbies: badminton, basketball, guitar, classical music