

Junru Li

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Education

Institute for Interdisciplinary Information Sciences, Tsinghua University	2024.8 – present
<i>Ph.D Student in Computer Science and Technology</i>	advisor: Yifan Song
Institute of Mathematical Sciences (IMS), ShanghaiTech University	2020.9 – 2024.7
<i>Bachelor of Science in Mathematics and Applied Mathematics</i>	GPA:3.80/4

Research Interest

My research interest is theoretical cryptography and its application in the real world. My research mainly focuses on secure multi-party computation.

Publications

Authors are listed in **Alphabetical Order** (unless stated otherwise).

1. *Honest Majority Constant-Round MPC with Linear Communication from One-Way Functions*
Junru Li, Yifan Song
TCC 2025
2. *Towards Building Scalable Constant-Round MPC from Minimal Assumptions via Round Collapsing*
Vipul Goyal, **Junru Li**, Rafail Ostrovsky, Yifan Song
CRYPTO 2025
3. *Constant-Round Asynchronous MPC with Optimal Resilience and Linear Communication*
Junru Li, Yifan Song
CRYPTO 2025
4. *Efficient Information-Theoretic Distributed Point Function with General Output Groups*
Junru Li, Pengzhen Ke, Liang Feng Zhang (contribution order)
Designs, Codes, and Cryptography
5. *Dishonest Majority Constant-Round MPC with Linear Communication from DDH*
Vipul Goyal, **Junru Li**, Ankit Kumar Misra, Rafail Ostrovsky, Yifan Song, Chenkai Weng
ASIACRYPT 2024
6. *Linear-Communication Asynchronous Complete Secret Sharing with Optimal Resilience*
Xiaoyu Ji, **Junru Li**, Yifan Song
CRYPTO 2024

Teaching

- Teaching Assistant to Prof. Junwu Tu in MATH 1233 *Introduction to Topology*, Fall 2023, ShanghaiTech University
- Teaching Assistant to Prof. Zheng Zhang in MATH 1224 *Abstract Algebra*, Spring 2023, ShanghaiTech University

Experiences

- External Reviewer: ASIACRYPT 2024, ASIACRYPT 2025, TCC 2025
- Research Intern, ShanghaiTech University, advised by Prof. Liang Feng Zhang (2022.7 - 2023.7)
- Online Research Intern, Peking University, advised by Prof. Tianren Liu (2023.4 - 2023.6)

Awards

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|---|-------------|
| ◦ Presidential Scholarship, ShanghaiTech University | <i>2024</i> |
| ◦ Outstanding Graduate of ShanghaiTech University | <i>2024</i> |
| ◦ Shanghai Scholarship | <i>2023</i> |
| ◦ Outstanding Student of ShanghaiTech University | <i>2022</i> |
| ◦ Merit Student of ShanghaiTech University | <i>2021</i> |