

Junru Li

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Education

Institute for Interdisciplinary Information Sciences, Tsinghua University <i>Ph.D Student in Computer Science and Technology</i> advisor: Yifan Song	2024.8 – present GPA:3.93/4
Institute of Mathematical Sciences (IMS), ShanghaiTech University <i>Bachelor of Science in Mathematics and Applied Mathematics</i>	2020.9 – 2024.7 GPA:3.80/4

Research Interest

My research interest is theoretical cryptography, with a special focus on secure multi-party computation.

Publications

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

1. *Faster Gradient Methods for Highly-Smooth Stochastic Bilevel Optimization*

Lesi Chen, **Junru Li**, El Mahdi Chayti, Jingzhao Zhang (*contribution order*)

ICLR 2026

2. *Honest Majority Constant-Round MPC with Linear Communication from One-Way Functions*

Junru Li, Yifan Song

TCC 2025

3. *Towards Building Scalable Constant-Round MPC from Minimal Assumptions via Round Collapsing*

Vipul Goyal, **Junru Li**, Rafail Ostrovsky, Yifan Song

CRYPTO 2025

4. *Constant-Round Asynchronous MPC with Optimal Resilience and Linear Communication*

Junru Li, Yifan Song

CRYPTO 2025

5. *Efficient Information-Theoretic Distributed Point Function with General Output Groups*

Junru Li, Pengzhen Ke, Liang Feng Zhang (*contribution order*)

Designs, Codes, and Cryptography

6. *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

7. *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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| ◦ First-Class Scholarship (Lingjun Leadership Scholarship), Tsinghua University | 2025 |
| ◦ Presidential Scholarship, ShanghaiTech University | 2024 |
| ◦ Outstanding Graduate of ShanghaiTech University | 2024 |
| ◦ Shanghai Scholarship | 2023 |
| ◦ Outstanding Student of ShanghaiTech University | 2022 |
| ◦ Merit Student of ShanghaiTech University | 2021 |