

# Lixin Liu

♀ Gender: Female

✉ Email: llx22@mails.tsinghua.edu.cn

## Research Interests

Satellite Networks

## Education

Sep 2022 - Present

Tsinghua University

Cyberspace Security (Doctorate)

Sep 2019 - Jun 2022

Tsinghua University

Cyberspace Security (Master)

Sep 2015 - Jun 2019

Shandong University

Software Engineering (Bachelor)

## Honors & Awards

- Oct 2023 The Second Price Scholarship of Tsinghua University
- Jun 2022 Outstanding graduate of the Institute for Network Sciences and Cyberspace of Tsinghua University
- Oct 2020 The Second Price Scholarship of Tsinghua University
- Dec 2017 National Scholarship

## Publications

1. **[NSDI '24]** Lixin Liu, Yuanjie Li, Hewu Li, Jiabo Yang, Wei Liu, Jingyi Lan, Yufeng Wang, Jiarui Li, Jianping Wu, Qian Wu, Jun Liu, Zeqi Lai, "Democratizing Direct-to-Cell Low Earth Orbit Satellite Networks".
2. **[MobiCom '24]** Yuanjie Li, Lixin Liu, Hewu Li, Wei Liu, Yimei Chen, Wei Zhao, Jianping Wu, Qian Wu, Jun Liu, Zeqi Lai, "Stable hierarchical routing for operational satellite networks".
3. **[IEEE Internet Computing]** Lixin Liu, Wei Liu, Yuanjie Li, Hewu Li, "Enabling 6G and Beyond Network Functions from Space: Challenges and Opportunities".
4. **[MobiCom '23]** Yuanjie Li, Hewu Li, Wei Liu, Lixin Liu, Wei Zhao, Yimei Chen, Jianping Wu, Qian Wu, Jun Liu, Zeqi Lai, Han Qiu, "A Networking Perspective on Starlink's Self-Driving LEO Mega-Constellation".
5. **[SIGCOMM '22]** Yuanjie Li, Hewu Li, Wei Liu, Lixin Liu, Yimei Chen, Jianping Wu, Qian Wu, Jun Liu, Zeqi Lai, "A Case for Stateless Mobile Core Network Functions in Space".
6. **[IWQoS '22]** Lixin Liu, Hewu Li, Yuanjie Li, Zeqi Lai, Yangtao Deng, Yimei Chen, Wei Liu, Qian Wu, "Geographic Low-Earth-Orbit Networking without QoS Bottlenecks from Infrastructure Mobility".
7. **[NSDI '23]** Zeqi Lai, Hewu Li, Yangtao Deng, Qian Wu, Jun Liu, Yuanjie Li, Jihao Li, Lixin Liu, Weisen Liu, Jianping Wu, "StarryNet: Empowering Researchers to Evaluate Futuristic Integrated Space and Terrestrial Networks".
8. **[HotNets '21]** Yuanjie Li, Hewu Li, Lixin Liu, Wei Liu, Jiayi Liu, Jianping Wu, Qian Wu, Jun Liu, and Zeqi Lai, "Internet in Space" for Terrestrial Users via Cyber-Physical Convergence.

## Teaching Assistant

- Wireless Mobile Network Technology, Tsinghua University, Fall 2022

## Professional Services

- Program committee member of MobiCom 2024 Artifacts Evaluation
- Volunteer of SIGCOMM 2019