Lixin Liu (刘李鑫)

1997-12 | Female | Beijing, China

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Education

Tsinghua University – **Cyberspace Security** – **Doctorate**   Sep 2022 - Present

Tsinghua University – **Cyberspace Security** – **Master**   Sep 2019 - Jun 2022

Shandong University – **Software Engineering** – **Bachelor**   Sep 2015 - Jun 2019

Research Interests

Satellite Networks

Honors & Awards

- Oct, 2024   National Scholarship
- Apr, 2024   USENIX NSDI 2024 Outstanding Paper Award
- Mar, 2024   The third prize of the Tsinghua University Student Laboratory Construction Contribution Award
- 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

Publications

- **[USENIX NSDI 2024]** <u>**Lixin Liu**</u>, 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. **Outstanding Paper Award**

- **[ACM MobiCom 2024]** Yuanjie Li, <u>**Lixin Liu**</u>, Hewu Li, Wei Liu, Yimei Chen, Wei Zhao, Jianping Wu, Qian Wu, Jun Liu, Zeqi Lai, Stable Hierarchical Routing for Operational LEO Networks.

- **[HotNets 2024]** Yimei Chen, <u>**Lixin Liu**</u>, Yuanjie Li, Hewu Li, Qian Wu, Jun Liu, Zeqi Lai, Unraveling Physical Space Limits for LEO Network Scalability.

- **[IEEE/ACM IWQoS 2022]** <u>**Lixin Liu**</u>, 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.

- **[IEEE Internet Computing]** <u>**Lixin Liu**</u>, Wei Liu, Yuanjie Li, Hewu Li, Enabling 6G and Beyond Network Functions From Space: Challenges and Opportunities.

- **[ACM MobiCom 2023]** Yuanjie Li, Hewu Li, Wei Liu, <u>**Lixin Liu**</u>, 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.

- **[ACM SIGCOMM 2022]** Yuanjie Li, Hewu Li, Wei Liu, <u>**Lixin Liu**</u>, Yimei Chen, Jianping Wu, Qian Wu, Jun Liu, Zeqi Lai, A case for stateless mobile core network functions in space.

- **[USENIX NSDI 2023]** Zeqi Lai, Hewu Li, Yangtao Deng, Qian Wu, Jun Liu, Yuanjie Li, Jihao Li, <u>**Lixin Liu**</u>, Weisen Liu, Jianping Wu, StarryNet: Empowering Researchers to Evaluate Futuristic Integrated Space and Terrestrial Networks.

- **[HotNets 2021]** Yuanjie Li, Hewu Li, <u>**Lixin Liu**</u>, Wei Liu, Jiayi Liu, Jianping Wu, Qian Wu, Jun Liu, 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