

Shiming Yu

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Education

The Hong Kong Polytechnic University	<i>Aug 2022 – Now</i>
Ph.D. Candidate in Computer Science (Advisor: Prof. Yuanqing Zheng)	
University of Electronic Science and Technology of China	<i>Aug 2018 – Jul 2022</i>
B.E. in Communication Engineering (GPA: 3.8/4.0)	

Research Interest

My research interests include Low Power Wide Area Networks (LPWANs) and Wireless Networking.

Publications

First-author papers:

[C1] Are LoRa Logical Channels Really Orthogonal? Practically Orthogonalizing Massive Logical Channels	MobiSys 2025
Shiming Yu, Ziyue Zhang, Xianjin Xia, Yuanqing Zheng, Jiliang Wang	<i>Acceptance ratio: 18.03%</i>
The 23rd ACM International Conference on Mobile Systems, Applications, and Services	
[C2] Revolutionizing LoRa Gateway with XGate: Scalable Concurrent Transmission across Massive Logical Channels	MobiCom 2024
Shiming Yu, Xianjin Xia, Ningning Hou, Yuanqing Zheng, Tao Gu	<i>Acceptance ratio: 20.85%</i>
The 30th Annual International Conference on Mobile Computing and Networking	
[C3] FDLora: Tackling Downlink-Uplink Asymmetry with Full-duplex LoRa Gateways	SenSys 2024
Shiming Yu, Xianjin Xia, Ziyue Zhang, Ningning Hou, Yuanqing Zheng	<i>Acceptance ratio: 18.53%</i>
The 22nd ACM Conference on Embedded Networked Sensor Systems	

Other papers:

[C4] From Interference Mitigation to Toleration: Pathway to Practical Spatial Reuse in LPWANs	MobiCom 2025
Ruonan Li, Ziyue Zhang, Xianjin Xia, Ningning Hou, Wenchang Chai, Shiming Yu, Yuanqing Zheng, Tao Gu	<i>Acceptance ratio: 17.08%</i>
The 31st Annual International Conference on Mobile Computing and Networking	
[C5] MoLoRa: Intelligent Mobile Antenna System for Enhanced LoRa Reception in Urban Environments	SenSys 2025
Ningning Hou, Yifeng Wang, Xianjin Xia, Shiming Yu, Yuanqing Zheng, Tao Gu	<i>Acceptance ratio: 18.78%</i>
The 23rd ACM Conference on Embedded Networked Sensor Systems	

Professional Services

Program Committee Member

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|---------------------------------------------|---------|
| ◦ ACM MobiCom Artifact Evaluation Committee | 2024-25 |
| ◦ ACM MobiSys Artifact Evaluation Committee | 2024-25 |

Invited Reviewer

- ACM Transactions on Sensor Networks 2023,2025
- IEEE Transactions on Wireless Communications 2023
- IEEE Internet of Things Journal 2024
- Computer Networks 2023

Awards

- Student Travel Grant, ACM MobiCom 2024
- Best Oral Presentation Award, PolyU CRSC 2024
- Full Ph.D. Scholarship, PolyU 2024
- Outstanding Student Scholarship (Top 15%) 2022-Now
- National Encouragement Scholarship 2020
- Outstanding Student Scholarship (Top 15%) 2019