

# Shiming Yu

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## Education

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**The Hong Kong Polytechnic University** *Aug 2022 – Now*  
 Ph.D. Candidate in Computer Science (Advisor: Prof. Yuanqing Zheng)

**University of Electronic Science and Technology of China** *Aug 2018 – Jul 2022*  
 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] Revolutionizing LoRa Gateway with XGate: Scalable Concurrent Transmission across Massive Logical Channels** **MobiCom 2024**  
*Acceptance ratio: 20.85%*  
 Shiming Yu, Xianjin Xia, Ningning Hou, Yuanqing Zheng, Tao Gu  
 The 30th Annual International Conference on Mobile Computing and Networking

**[C2] FDLora: Tackling Downlink-Uplink Asymmetry with Full-duplex LoRa Gateways** **SenSys 2024**  
*Acceptance ratio: 18.53%*  
 Shiming Yu, Xianjin Xia, Ziyue Zhang, Ningning Hou, Yuanqing Zheng  
 The 22nd ACM Conference on Embedded Networked Sensor Systems

*Other papers:*

**[C3] From Interference Mitigation to Toleration: Pathway to Practical Spatial Reuse in LPWANs** **MobiCom 2025**  
*Acceptance ratio: 17.08%*  
 Ruonan Li, Ziyue Zhang, Xianjin Xia, Ningning Hou, Wenchang Chai, Shiming Yu, Yuanqing Zheng, Tao Gu  
 The 31st Annual International Conference on Mobile Computing and Networking

## Professional Services

### Program Committee Member

- ACM MobiCom Artifact Evaluation Committee 2024
- ACM MobiSys Artifact Evaluation Committee 2024

### Invited Reviewer

- ACM Transactions on Sensor Networks 2023
- 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  
2020

o National Encouragement Scholarship

2019  
2019