

Shiming YU

QT404, Department of Computing, The Hong Kong Polytechnic University, Hong Kong SAR, China

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Education

University of Electronic Science and Technology of China

B.E. IN COMMUNICATION ENGINEERING

- School of Information and Communication Engineering

Chengdu, China

Aug, 2018 - Jul, 2022

The Hong Kong Polytechnic University

PH.D. IN COMPUTER SCIENCE

- Department of Computing

Hong Kong SAR, China

Aug, 2022 - Present

Research Interest

My research interest includes Low Power Wide Area Networks (LPWANs), LoRa, and Mobile Applications.

Publications

Revolutionizing LoRa Gateway with XGate: Scalable Concurrent Transmission across Massive Logical Channels

SHIMING YU, XIANJIN XIA, NINGNING HOU, YUANQING ZHENG, TAO GU

- The 30th Annual International Conference On Mobile Computing And Networking (MobiCom'24, CCF-A).

Washington, D.C., USA

Nov.18 - Nov.22, 2024

FDLoRa: Tackling Downlink-Uplink Asymmetry with Full-duplex LoRa Gateways

SHIMING YU, XIANJIN XIA, ZIYUE ZHANG, NINGNING HOU, YUANQING ZHENG

- The 22nd ACM Conference on Embedded Networked Sensor Systems (SenSys'24, CCF-B).

Hangzhou, China

Nov.4 - Nov.7, 2024

Teaching Experience

- 2023 **COMP5311 Internet Infrastructure And Protocols**, Teaching Assistant, Fall Semester
- 2023 **COMP1011 Programming Fundamentals**, Teaching Assistant, Spring Semester
- 2022 **COMP1004 Introduction to Artificial Intelligence and Data Analytics**, Teaching Assistant, Fall Semester

Honors & Awards

SCHOLARSHIP

- 2022-Now **Full Ph.D. Scholarship**,
- 2019 **National Encouragement Scholarship**,
- 2019 **Merit-based Outstanding Student Scholarship(Top 15%)**,
- 2020 **Merit-based Outstanding Student Scholarship(Top 15%)**,

PolyU

UESTC

UESTC

UESTC

RESEARCH

- 2024 **Best Oral Presentation Award**, COMP 50th Anniversary Research Student Conference

PolyU

Professional Service

PROGRAM COMMITTEE MEMBER

- 2024 **Artifact Evaluation Committee**, ACM MobiCom'24
- 2024 **Artifact Evaluation Committee**, ACM MobiSys'24

REVIEWER

2024 **Invited reviewer of ACM Transactions on Sensor Networks,**
2023 **Invited reviewer of IEEE Transactions on Wireless Communications,**
2023 **Invited reviewer of Computer Networks,**