

Xinyu Huang

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EDUCATION

The Hong Kong Polytechnic University

Ph.D. in Computer Science

- **Supervisor:** Prof. Yuanqing Zheng

Hong Kong SAR, China

May 2024 – Present

University of Electronic Science and Technology of China

B.Eng. in Optoelectronic Information Science and Engineering

- **GPA:** 3.80/4.00

Chengdu, China

Sept. 2019 – Jun. 2023

PUBLICATIONS

- Shen L., Yang, Q., **Huang, X.**, Ma, Z., & Zheng, Y., GPIO-T: Tailoring Small Language Models for IoT Program Synthesis and Development, *The 23rd ACM Conference on Embedded Networked Sensor Systems (ACM SenSys)*, May 6-9, 2025, Irvine, USA
- Wang, H., **Huang, X.**, & Wu, Y., GD3N: Detecting Selective Forwarding Attacks in Wireless Sensor Networks under Variable Harsh Environments. *Information Sciences*, 2024, 120375.
- **Huang, X.**, & Wu, Y., Identify Selective Forwarding Attacks Using Danger Model: Promote the Detection Accuracy in Wireless Sensor Networks, *IEEE Sensors Journal*, 22(10), 9997-10008.
- **Huang, X.**, Li, S., & Wu, Y., LSTM-NV: A Combined Scheme against Selective Forwarding Attack in Event-Driven Wireless Sensor Networks under Harsh Environments. *Engineering Applications of Artificial Intelligence*, 2023(123), 106441.

AWARDS & HONORS

- UESTC Honorable Graduates (**Top 7%**), Jun. 2023
- UESTC Outstanding Student Scholarship (**Top 10%**), 2020-2021 & 2021-2022
- American Mathematics Modeling Contest (MCM), **Meritorious Winner**, Mar. 2022

PROJECTS

Wireless Indoor Localization System Based on Meta-Learning

Capstone Project

- Harnessing the potential of meta-learning in generalizability, the localization system is capable of quickly adapting to environmental changes with computationally inexpensive model updates.

WORK EXPERIENCE

Chinasoft Clouds Co., Ltd.

Data Operation and Maintenance Intern

Guiyang, China

Jun. 2021 – Aug. 2021

- Through a collaborative partnership with Guizhou Province's Education Department, we formulated strategies for data visualization and platform architecture by employing advanced MySQL tools.

MEMBERSHIP

Institute of Electrical and Electronics Engineers (IEEE)

Student Member

New York, USA

Apr. 2022 – Present

Association for Computing Machinery (ACM)

Student Member

New York, USA

Apr. 2024 – Present

SKILLS

Programming: C/C++, Python, MATLAB, LaTeX, MySQL, HTML, Markdown, Verilog, VHDL

Languages: Mandarin (native), English (fluent, **IELTS 6.5**), Gan Yu (native), Cantonese (fluent)