

# Xinyu Huang

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## EDUCATION

### The Hong Kong Polytechnic University

*Ph.D. in Computer Science*

- **Supervisor:** Dr. Yuanqing Zheng

Hong Kong SAR, China

*May 2024 – Jan 2028 (Expected)*

### 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

- **Huang, X.**, & Wu, Y., Identify Selective Forwarding Attacks Using Danger Model: Promote the Detection Accuracy in Wireless Sensor Networks. *IEEE Sensors Journal* (*Q1, IF=4.3*), 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* (*Q1, IF=8.0*), 2023(123), 106441.
- Wang, H., **Huang, X.**, & Wu, Y., GD3N: Detecting Selective Forwarding Attacks in Wireless Sensor Networks under Variable Harsh Environments. *Information Sciences* (*Q1, IF=8.1*), 2024, 120375.

## AWARDS & HONORS

- UESTC **Honorable Graduates**, Jun. 2023
- UESTC Honourable Research (**3/302**), Oct. 2022
- Outstanding Student Scholarship (**top 10%**), Academic year 2020-2021 & 2021-2022
- Chinese Mathematics Modelling Contest, **First Prize**, Oct. 2021
- Chinese Collage Students Mathematics Competition, **Second Prize**, 2020 & 2021
- American Mathematics Modelling Contest (MCM), **Meritorious Winner**, Apr. 2022
- Asia Pacific Mathematics Modelling Contest (APMCM), **Second Prize**, Feb. 2023

## WORK EXPERIENCE

### Chinasoft Clouds Co., Ltd.

*Data Operation and Maintenance Intern*

Guiyang, China

*Jun. 2021 – Aug. 2022*

- Through a collaborative partnership with Guizhou Province's Education Department, we meticulously formulated strategies for data visualization and platform architecture. Employing advanced MySQL tools, we seamlessly imported database content, thereby facilitating users' access to pivotal insights. This operational project has garnered significant commendation from the esteemed Guizhou Province Government.

## PROJECTS

### Wireless Indoor Localization System Based on Meta-Learning

### Capstone Project

- This is the first work to harness the potential of meta-learning for wireless localization. Its ability to quickly adapt to environmental changes with computationally inexpensive updates sets it apart from the competition. Furthermore, it achieves this adaptation with just three CSI images per-point in a new environment, solidifying its position as a cost-effective solution.

## SKILLS

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

**Languages:** Chinese (native), English (fluent, **IELT 6.5**), Cantonese (fluent)