Han HU

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Education

2017.09 – 2021.07   **BEng. in Information Engineering**, *The Chinese University of Hong Kong*
- Bachelor of Engineering with Honours, First Class
- Member of ELITE Stream in Faculty of Engineering
  - The ELITE Stream is offered by the Faculty to students with excellent academic performance. Its aims are to nurture outstanding engineering students and to develop their potentials through additional challenging coursework and invaluable extra-curricular activities.
- Cumulative GPA: 3.629/4.0 Major GPA: 3.850/4.0

2022.08 – 2026.07 (expected)   **PhD in Information Engineering**, *The Chinese University of Hong Kong*

Publications

2024   **Deep Learning-Based Pulse-Shaping Filter Estimation for Fine-Grained WiFi Sensing**, *ICC 2024 - IEEE International Conference on Communications, Denver, CO, USA, 2024, pp. 4421-4426*, PDF link
- Han Hu, Ruiqi Kong, Ke Xu, He Henry Chen.

Work Experience

2021.08–2022.07   **Junior Research Assistant**, *The Chinese University of Hong Kong*
- Wireless Networking and Sensing (WiNS) Group

Research Projects

2019.06 – 2019.09   **Investigation of message-passing algorithms**
- Advisor: Prof. Pascal Vontobel, CUHK
- Using message-passing algorithms for trajectory estimation in motion models.

2020.06 – 2021.04   **Building a Contactless and Continuous Wireless Sensing System**
- Advisor: Prof. He Chen, CUHK
- Develop a comprehensive wireless sensing system which leverages the information-carrying RF signals for contactless and continuous monitoring of human vital signs.

2021.05 – Present   **Wireless Sensing on Mobile Robots**
- Advisor: Prof. He Chen, CUHK
- Focus on the combination of wireless communication, wireless sensing and control applications on mobile robots.

2024.07 – Present   **Inference Efficiency of LLM Over Wireless Network**
- Advisor: Prof. He Chen, CUHK
- Focus on the system design of smart communication strategies for LLM applications, pursuing lower overall system latency.

Selected Awards & Honors

2018-19   Scholarship for Academic Excellence 2019–20 from KY Chang Scholarship

2020-21   Scholarship for Academic Excellence 2020-21 from The Yen Scholarship

2020-21   ELITE Stream Scholarship

Skills

Programming Languages	C/C++, Python, MATLAB
WiFi-based Wireless Sensing	WiFi Channel Estimation, Channel State Information (CSI), RF Signal Processing
Deep Learning Algorithms	Vision Transformers, Reinforcement Learning, Large Language Models (LLMs), Vision-Language Models (VLMs), Supervised Learning

Research Interests

Wireless sensing

Signal processing in wireless communications

Wireless Network System Design

Task-oriented communication