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RESEARCH INTERESTS

Thermo-assisted Sensing, Wireless Sensing, Human-Computer Interaction, Mobile Computing, Internet of Things

EDUCATION

† *Indicates expected*

- **University of Hong Kong** *Sept. 2022 - Jul. 2026* †
  Ph.D. in Computer Science Supervisor: Prof. Chenshu Wu

- **Sun Yat-sen University** *Sept. 2019 – Jul. 2022*
  Master's degree in Pattern Recognition and Intelligence Systems Supervisor: Prof. Wanquan Liu
  Thesis: Research on Cross-domain Gesture Recognition Based on Commercial Wi-Fi Device

- **Sun Yat-sen University** *Sept. 2015 – Jul. 2019*
  B.S. in Software Engineering

AWARDS & HONORS

- MobiSys'24 Travel Grant Award

PUBLICATIONS [GOOGLE SCHOLAR]

- **X. Zhang**, C. Wu, "TADAR: Thermal Array-based Detection and Ranging for Privacy-Preserving Human Sensing," (ACM MobiHoc'24) Proceedings of the 25th International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing, Athens, Greece, 14-17 October 2024, doi: 10.1145/3641512.3686357.

- **X. Zhang**, C. Tang, K. Yin, and Q. Ni, "WiFi-based Cross-Domain Gesture Recognition via Modified Prototypical Networks," IEEE Internet of Things Journal, pp. 1–1, 2021, doi: 10.1109/JIOT.2021.3114309.

- **X. Zhang**, C. Tang, Y. An, and K. Yin, "WiFi-Based Multi-task Sensing," in Mobile and Ubiquitous Systems: Computing, Networking and Services, T. Hara and H. Yamaguchi, Eds., Cham: Springer International Publishing, 2022, pp. 169–189. doi: 10.1007/978-3-030-94822-1_10.

- P. Hu, C. Tang, K. Yin, and **X. Zhang**, "WiGR: A Practical Wi-Fi-Based Gesture Recognition System with a Lightweight Few-Shot Network," Applied Sciences, vol. 11, no. 8, Art. no. 8, Jan. 2021, doi: 10.3390/app11083329.

- K. Yin, C. Tang, **X. Zhang**, and H. Yao, "Robust Human Activity Recognition System with Wi-Fi Using Handcraft Feature," in 2021 IEEE Symposium on Computers and Communications (ISCC), Sep. 2021, pp. 1–8. doi: 10.1109/ISCC53001.2021.9631459.

PROFESSIONAL SERVICE

- **Artifact Evaluation Committee,** ACM MobiCom 2023
- **Artifact Evaluation Committee,** ACM MobiSys 2023
- **Artifact Evaluation Committee,** USENIX ATC 2022
- **Reviewer,** APSIPA Transactions on Signal and Information Processing
- **Reviewer,** IEEE Internet of Things Journal
- **Reviewer,** Proc. ACM Interact. Mob. Wearable Ubiquitous Technologies
- **Reviewer,** International Conference on Parallel and Distributed Systems (ICPADS'24)

Teaching Assistant

- CS3230 - Operating System, Fall 2022

- COMP3314 - Machine learning, Fall 2023

- COMP3270 - Artificial intelligence, Fall 2024

References

Chenshu Wu (Ph.D. advisor)
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Department of Computer Science
The University of Hong Kong
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Wanquan Liu (Master's degree advisor)
Professor
School of Intelligent Systems Engineering
Sun Yat-sen University
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