Han Wang

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🎓 Education

University of Electronic Science and Technology of China (UESTC), Chengdu, China   2022 – Present
Ph.D. student & M.E. in Computer Science (CS)

Tianjin University (TJU), Tianjin, China   2018 – 2022
B.E. in Computer Science (CS)

💡 Research Interests

- **Wireless:** low-power communication systems, sensing
- **Embedded systems:** energy-efficient computing systems, ubiquitous computing

📖 Publication

Conference Papers

1. **[MobiCom '24] Sisyphus: Redefining Low Power for LoRa Receiver.**
   Han Wang, Yihang Song, Qianhe Meng, Zetao Gao, Chong Zhang, and Li Lu.
   The 30th Annual International Conference on Mobile Computing and Networking.
2. **[SenSys '24] Processor-Sharing Internet of Things Architecture for Large-Scale Deployment.**
   Qianhe Meng, **Han Wang**, Chong Zhang, Yihang Song, Songfan Li, Li Lu, and Hongzi Zhu.
   *The 22nd ACM Conference on Embedded Networked Sensor Systems.***(Best Paper Award)**
3. **[SenSys '26] μMan: Towards Device-Agnostic Power Management for Battery-free IoT.**
   Chong Zhang, **Han Wang**, Qianhe Meng, Yize Zhao, Shengyu Li, Songfan Li, Zetao Gao, Li Lu, and Hongzi Zhu.
   ACM/IEEE International Conference on Embedded Artificial Intelligence and Sensing Systems.
4. **[MobiSys '25] LEGO+: Redefining the Redundancy Removal for IoT Sensing Edge-End Systems.**
   Chong Zhang, **Han Wang**, Qianhe Meng, Yize Zhao, Yihang Song, Kanglin Xu, Jinzhe Li, and Li Lu.
   The 23rd ACM International Conference on Mobile Systems, Applications, and Services.
5. **[INFOCOM '26] Baro2Talk: Reconstructing Spectrograms from Ear Canal Pressure for Voice-free Communication.**
   Luo Zhou, Shan Chang, **Han Wang**, Xianbo Wang, and Hongzi Zhu.
   IEEE International Conference on Computer Communications.
6. **[ICC '25] Cupid: Empowering Reliable Collaboration for Intermittent Computing Nodes.**
   Yize Zhao, Chong Zhang, Zetao Gao, **Han Wang**, Qianhe Meng, and Li Lu.
   IEEE International Conference on Communications.

Journal Papers

1. **[ToN 2026] Bringing LoRa Downlink to Backscatter Devices.**
   Han Wang, Yihang Song, Qianhe Meng, Chong Zhang, Songfan Li, Shuwei Wu, Ruizhe Zhang, and Li Lu
   IEEE Transactions on Networking (ToN), 2026.
2. **[TMC 2025] Embedding Chips Over the Air: Rethink IoT Architecture for Ubiquitous Sensing.**
   Qianhe Meng, **Han Wang**, Chong Zhang, Yihang Song, Songfan Li, Li Lu, and Hongzi Zhu.
   IEEE Transactions on Mobile Computing (TMC), 2025.

3. **[TMC 2021] MapFi: Autonomous Mapping of Wi-Fi Infrastructure for Indoor Localization.**
Xinyu Tong, **Han Wang**, Xiulong Liu, and Wenyu Qu.
IEEE Transactions on Mobile Computing (TMC), 2021.

🏆 Honors and Awards

- **Best Paper Award** at ACM SenSys 2024 (1 out of 313 submissions)
- ACM SIGMOBILE Research Highlight

👥 Academic Service

Program Committee Member

- ACM MobiCom Artifact Evaluation, 2025
- ACM MobiSys Artifact Evaluation, 2025

Journal Reviewer

- IEEE Transactions on Mobile Computing (TMC), 2024–2025
- IEEE Internet of Things Journal, 2025
- Journal of Medical Internet Research, 2025
- IEEE Sensors Journal, 2024

✏️ Last updated in Dec. 2025