

HAO ZHOU

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Ph.D. Candidate, Department of Computer Science and Engineering, The Pennsylvania State University
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RESEARCH INTERESTS

Internet of Things, Wireless Sensing, Wearable Computing, and Multimodal Learning

EDUCATION

The Pennsylvania State University	State College, PA, USA
<i>Doctor of Philosophy in Computer Science and Engineering</i>	<i>2021 - Present</i>

The University of Mississippi	Oxford, MS, USA
<i>Master of Science in Computer Science</i>	<i>2019 - 2021</i>
<i>Bachelor of Science in Computer Science</i>	<i>2016 - 2019</i>

INTERNSHIPS

Microsoft Research Asia	Shanghai, China
<i>Mentor: Dr. Jie Xiong</i>	

- Explore Ultra-wideband (UWB) Sensing on Consumer-level Devices for Respiration, etc.
- Explore Intersection of 3D Vision (LiDAR) and Wireless Sensing

SELECTED PUBLICATIONS

- [C.2] SignQuery: A Natural User Interface and Search Engine for Sign Language with Wearable Sensors
Hao Zhou, Taiting Lu, Kristina McKinnie, Joseph Palagano, Kenneth DeHaan, Mahanth Gowda
ACM MobiCom, 2023
- [C.1] One Ring to Rule Them All: An Open Source Smartring Platform for Finger Motion Analytics and Healthcare Applications
Hao Zhou, Taiting Lu, Yilin Liu, Shijia Zhang, Runze Liu, Mahanth Gowda
ACM/IEEE IoTDI, 2023, (**Best Paper Award for Edge IoT AI**)
- [J.2] I am an Earphone and I can Hear my Users Face: 3D Facial Reconstruction using Smart Earphones
Shijia Zhang, Taiting Lu, **Hao Zhou**, Yilin Liu, Runze Liu, Mahanth Gowda
ACM Transactions on Internet of Things, 2023
- [J.1] Learning on the Rings: Self-Supervised 3D Finger Motion Tracking using Wearable Sensors
Hao Zhou, Taiting Lu, Yilin Liu, Shijia Zhang, Mahanth Gowda
ACM IMWUT/UbiComp 2022
- [W.1] Backdoor Threats from Compromised Foundation Models to Federated Learning
Xi Li, Songhe Wang, Chen Wu, **Hao Zhou**, Jiaqi Wang
FL@FM-NeurIPS'23