## Zimo Liao

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Po	ositions	
Pos	ong Kong Polytechnic University stdoctoral Fellow in the Department of Computing lvisor: Prof. Lei Yang [Homepage]	Hong Kong, China 2025–Present
Ec	lucation	
Ph <b>A</b> d	anghai Jiao Tong University .D. in Computer Science Ivisor: Prof. Fan Wu [Homepage] nesis: Research on Optical Signal-Based Sensing Technology for Mobile	Shanghai, China 2019-2024 e Devices
B.E	ortheastern University  Eng. in Computer Science and Technology  nesis: Design and Implementation of a Visible Light Positioning System	ng, Liaoning, China 2015–2019 n
Re	esearch Interests	
Му	research interest lies in <b>Ubiquitous sensing and wireless communication</b> . S	Specifically, it includes:
,	Ubiquitous sensing. I'm interested in sensing techniques on mobile devices. iversalizing specialized sensing devices through minimization and cost reduction	
,	Wireless communication: I'm interested in wireless communication technologies mmunication and other signal-based wireless communication methods.	, including light-based
Pι	ublications	
[1]	<b>Z. Liao</b> , J. Meng, S. An, C. Niu, F. Wu, T. Deng, G. Chen, "Waving Hand as Infrared Source for Ubiquitous Gas Sensing" The Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) 2024.	
[2]	<b>Z. Liao</b> , Z. Luo, Q. Huang, L. Zhang, F. Wu, Q. Zhang, G. Chen, "Gesture Recognition Using Visible Light on Mobile Devices" IEEE/ACM Transactions on Networking (TON) 2024.	
[3]	<b>Z. Liao</b> , Z. Luo, Q. Huang, L. Zhang, F. Wu, Q. Zhang, Y. Wang, "SMART: Screen-based Gesture Recognition on Commodity Mobile Devices," ACM Conference on Mobile Computing and Networking (MobiCom) 2021. [1-min video]	
[4]	<b>Liao</b> , Z. Luo, Q. Huang, L. Zhang, F. Wu, Q. Zhang, Y. Wang, G. Chen, "Demo: SMART: creen-based Gesture Recognition on Commodity Mobile Devices," ACM Conference on Mobile Computing and Networking (MobiCom) 2021.	
Н	onors and Awards	
• :	Second-Place winner, Student Research Competition at MOBICOM 2021	2022

2019

• Outstanding graduates, Northeastern University

Skills \_

**Programming** I'm familiar with Arduino, Python, C and C++ programming.

Signal & Hardware I have experience in processing light signals. I 'm familiar with the usage of light

sensors and pyroelectric sensors.

**Theoretical Knowledge** I have mastered the theories of optical propagation and thermal radiation.

Service \_\_\_\_\_

MobiCom 2025, Artifact Evaluation Committee INFOCOM 2025, Reviewer

IEEE Transactions on Mobile Computing, Reviewer

Concurrency and Computation: Practice and Experience, Reviewer

CCF Student Brunch in Shanghai Jiao Tong University 2019-2022, Executive Committee