

Mengning Li

North Carolina State University at Raleigh, North Carolina, USA

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Education

NC State University

Sept. 2022 - Present

Ph.D. Student of Electrical and Computer Engineering

- Advisor: **Professor Wenye Wang**

Shanghai Jiao Tong University

Sept. 2018 - Jun. 2022

Bachelor of Computer Science, ACM / IEEE Honor Class

- Advisor: **Professor Luoyi Fu**.

Interest

My research interests lie in the development and optimization of wireless communication and networking technologies, with a particular emphasis on enhancing the performance and reliability of wireless sensing systems.

Experience

NetWis Lab, North Carolina State University

Sept. 2022 - Present

- Wireless sensing and communication supervised by [Prof. Wenye Wang](#).

Microsoft Research Asia

Aug. 2021 - Mar. 2022

- Implemented collective communication library (CCL) [MSCCL](#) upon NCCL.

John Hopcroft Center, Shanghai Jiao Tong University

Jun. 2020 - Aug. 2021

- Wireless Sensing supervised by [Prof. Luoyi Fu](#).

Publication

A Survey of Signal-Based Sensing: From Data Collection to Application

IEEE Communications Surveys and Tutorials, 2024

Mengning Li, Wenye Wang, Wenyu Qu

In submission, under review

Hybrid Zone: Bridging Acoustic and Wi-Fi for Enhanced Gesture Recognition

IEEE INFOCOM, 2024

Mengning Li, Wenye Wang

Best Paper Award

Enable Batteryless Flex-sensors via RFID Tags

IEEE INFOCOM, 2023

Mengning Li

RC6D: An RFID and CV Fusion System for Real-time 6D Object Pose Estimation

IEEE INFOCOM, 2022

Bojun Zhang*, Mengning Li* (Co-primary authors), Xin Xie, Luoyi Fu, Xinyu Tong, Xiulong Liu

A Cross-domain Augmentation-based AI Learning Framework for In-Network Gesture Recognition

IEEE Network, 2021

Mengning Li, Luoyi Fu, Xinbing Wang

Awards

2024	Best Paper Award, INFOCOM
2023	NC State Summer Graduate Award
2022	NC State Graduate Merit Award
2022	Excellent Graduate Award of Shanghai (Top 0.2%)
2022	Excellent Bachelor Thesis of Shanghai Jiao Tong University (Top 1%)
2020	John Hopcroft Center Didi Scholarship (2/437)
2019	Zhiyuan Honorary Scholarship
2018	Zhiyuan Honorary Scholarship
2020	Meritorious Winner, Interdisciplinary Contest In Modeling (MCM/ICM)
2017	Silver Medal, The 34th China National Olympiad in Informatics (NOI)

Teaching Experience

Teaching Assistant, ECE592: Internet of Things Analytics

Spring 2024

Teaching Assistant, ECE407: Introduction to Computer Networking

Spring 2023

Teaching Assistant, CSC309: Data Structure

Fall 2022