

# Mengning Li

North Carolina State University at Raleigh, North Carolina, USA

✉ [mli55@ncsu.edu](mailto:mli55@ncsu.edu)

## 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.

## Exerience

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

## 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