Mengning Li

North Carolina State University at Raleigh, North Carolina, U.S.A

✉ mli55@ncsu.edu

Education

North Carolina State University   *Sept. 2022 - Present*
- GPA: **3.7 / 4.0**
- Advisor: **Professor Wenye Wang**.

Shanghai Jiao Tong University   *Sept. 2018 - Jun. 2022*
- Member of **ACM / IEEE Honors Class**, which is an elite CS program for top 5% talented students.
- GPA: **4.1 / 4.3**, Ranking: **5 / 133** (2020-2021).
- Advisor: **Professor Luoyi Fu**.

Research 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 Transactions on Mobile Computing, 2024*
Mengning Li, Wenye Wang   *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

Selected Honors & Awards

Scholarship

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**

Competition

2020	**Meritorious Winner,** Interdisciplinary Contest In Modeling (MCM/ICM)
2017	**Silver Medal,** The 34th China National Olympiad in Informatics (NOI)

Teaching Experience

2024	**Teaching Assistant,** Internet of Things Analytics
2023	**Teaching Assistant,** Introduction to Computer Networking
2022	**Teaching Assistant,** Data Structure