Mengning Li

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH, NORTH CAROLINA, USA

✉ mli55@ncsu.edu

Education

North Carolina State University   *Sept. 2022 - Present*

Ph.D. Student, Department of Electrical and Computer Engineering

Advisor: Prof. Wenye Wang

Shanghai Jiao Tong University   *Sept. 2018 - June 2022*

Bachelor of Science, Department of Computer Science

Advisor: Prof. Luoyi Fu

Research Interests

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   *Sept. 2020 - June 2022*

• Wireless sensing supervised by Prof. Luoyi Fu.

Publication

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

MENGNING LI, WENYE WANG

IEEE International Conference on Computer Communications (INFOCOM), 2024, **Best Paper Award**

Enable Batteryless Flex-sensors via RFID Tags [paper]

MENGNING LI

IEEE International Conference on Computer Communications (INFOCOM), 2023

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

BOJUN ZHANG*, MENGNING LI* (CO-PRIMARY AUTHORS), XIN XIE, LUOYI FU, XINYU TONG, XIULONG LIU

IEEE International Conference on Computer Communications (INFOCOM), 2022

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

MENGNING LI, LUOYI FU, XINBING WANG

IEEE Network, 2021

Awards

2024	**NC State Graduate Student Award** (4/528)	
2024	**NC State Graduate Merit Award**	
2024	**Best Paper Award, INFOCOM**	
2024	**U.S. Army Research Office (ARO) Travel Grants, 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)	
2020	**Meritorious Winner,** Interdisciplinary Contest In Modeling (MCM/ICM)	
2019	**Zhiyuan Honorary Scholarship**	
2018	**Zhiyuan Honorary Scholarship**	
2017	**Silver Medal,** The 34th China National Olympiad in Informatics (NOI)	

Teaching

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_

Skills

Languages

- Programming: C++, Python, Java, JavaScript, LaTeX.
- Mandarin (native), English (fluent).

Course Projects

- A tool to query a user's GitHub metrics (Python Flasks), developing API endpoints for GitHub GraphQL queries and GitHub REST queries [doc]
- A train tickets online booking system (C++)
- An event management system (Ruby)