

# Chenning Li

## Graduate Student

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## Research Interests

Low-power Wireless Networks, Edge/Mobile Computing, ML for Networks/Systems

## Education

Aug 2019 - Present

**Graduate** at Michigan State University

Major: Computer Science

Advisor: [Dr. Yunhao Liu](#) & [Dr. Zhichao Cao](#)

Aug 2014 - July 2018

**BEng.** from Tsinghua University

Major: Aerospace Engineering & Minor: Computer Science

## Conference Publications

1. **Chenning Li**, Xiuzhen Guo, Longfei Shangguan, Zhichao Cao, and Kyle Jamieson. “[CurvingLoRa to Boost LoRa Network Capacity via Concurrent Transmission](#)”, **USENIX NSDI’22**.
2. **Chenning Li**, Xiao Zeng, Mi Zhang, and Zhichao Cao. “PyramidFL: A Fine-grained Client Selection Framework for Efficient Federated Learning”, **ACM MobiCom’22**.
3. **Chenning Li**, Zhichao Cao, and Li Xiao. “CurveALOHA: Non-linear Chirps Enabled High Throughput Random Channel Access for LoRa”, **IEEE INFOCOM’22**.
4. **Chenning Li\***, Hanqing Guo\*, Lingkun Li, Zhichao Cao, Qiben Yan, Li Xiao. “NEC: Speaker Selective Cancellation via Neural Enhanced Ultrasound Shadowing”, **IEEE/IFIP DSN’22**.
5. **Chenning Li**, Hanqing Guo, Shuai Tong, Xiao Zeng, Zhichao Cao, Mi Zhang, Qiben Yan, Li Xiao, Jiliang Wang, and Yunhao Liu. “[NELoRa: Towards Ultra-low SNR LoRa Communication with Neural-enhanced Demodulation](#)”, **ACM SenSys’21**. **Best Paper Award**.
6. **Chenning Li**, Zheng Liu, Yuguang Yao, Zhichao Cao, Mi Zhang, and Yunhao Liu. “[Wi-Fi See It All: Generative Adversarial Network-augmented Versatile Wi-Fi Imaging](#)”, **ACM SenSys’20**.
7. **Chenning Li**, Manni Liu, Zhichao Cao. “[WiHF: Enable User Identified Gesture Recognition with WiFi](#)”, **IEEE INFOCOM’20**.
8. Jialuo Du, **Chenning Li**, Zhichao Cao, and Yunhao Liu. “[SRPeek: Super Resolution Enabled Screen Peeking via COTS Smartphone](#)”, **IEEE ICPADS’21**.

## Journal Publications

1. **Chenning Li**, and Zhichao Cao. “[LoRa Networking Techniques for Large-scale and Long-term IoT: A Down-to-top Survey](#)”, ACM Computing Surveys (**ACM CSUR**), to appear.
2. **Chenning Li**, Zhichao Cao, and Yunhao Liu. “[Deep AI Enabled Ubiquitous Wireless Sensing: A Survey](#)”, ACM Computing Surveys (**ACM CSUR**).

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<sup>1</sup>\* denotes the co-author information.

3. **Chenning Li**, Manni Liu, and Zhichao Cao. “[WiHF: Gesture and User Recognition with Wi-Fi](#)”, IEEE Transactions on Mobile Computing (**IEEE TMC**).

### Industrial Experience

1. **Microsoft**: Research Intern - Networking Research Group. May-Aug 2022
2. **TikTok**: Data-System-Network Engineering Intern. Feb-Apr 2022
3. **CodePath**: [iOS Development Course](#). Awarded [the Excellent Presentation](#) during the CodePath Mobile Development Virtual Demo Day. Aug-Dec 2020.

### Awards

1. **Student Grant**, USENIX NSDI & IEEE INFOCOM, 2022
2. **Best Paper Award**, ACM SenSys, 2021
3. **Named an Engineering Distinguished Scholar**, MSU, 2019
4. **Outstanding Undergraduates**, Beijing & Tsinghua University, 2018
5. **Awarded the Outstanding Scholarship**, Tsinghua University, 2017

### Teaching Experience

1. Teaching Assistant: CSE220 - Programming in C (Spring 2021, MSU)
2. Guest Lecturer: CSE891 - AIoT: Artificial Intelligence in the Edge (Spring 2020, Fall 2021, MSU)

### Professional Service

1. **Reviewer**:
  - (a) **Conference**: ACM MobiCom '20/'21/'22 | IEEE INFOCOM '20/'21/'22 | ACM/IEEE IPSN '22
  - (b) **Journal**: IEEE Transactions on Wireless Communications | IEEE Transactions on Mobile Computing | ACM Transactions on Sensor Networks | IEEE Internet of Things Journal