

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: Fine-grained Data and System Heterogeneity-aware Client Selection 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, 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**.
5. **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**.
6. **Chenning Li**, Manni Liu, Zhichao Cao. “WiHF: Enable User Identified Gesture Recognition with WiFi”, **IEEE INFOCOM’20**.
7. 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**).
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