



Xiaonan Zhang

Department of Computer Science

xzhang@cs.fsu.edu

<https://www.cs.fsu.edu/~xzhang/>

**COLLABORATIVE
COLLISION@FSU**

My Interest in Florida

- Expecting to address critical challenges in Florida, e.g., the health of elder people, hurricane-related precaution and recovery, and so on
- Contributing to solutions to problems from the perspective of computer science and with my expertise

Expertise/Skills

- Willingness to learn
- Critical thinking
- Teamwork
- Internet of Things, e.g., smart health, smart home
- Machine learning, Federated learning
- Programming: python, Matlab, C. C++

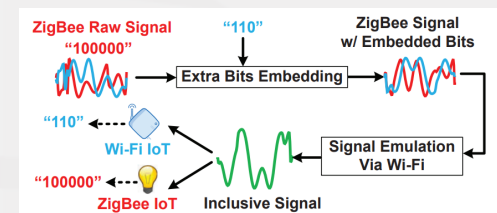
Research and/or Projects

Federated Learning

- User heterogeneity
 - ❖ Various latencies, unavailable users
- Data heterogeneity
 - ❖ Unlabeled data, diverse features

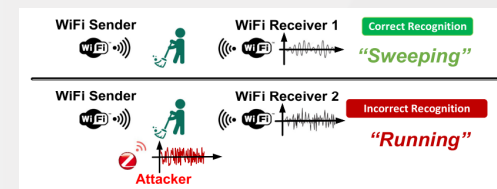


Wireless communication in IoT



Efficiency

- Parallel communication



Security

- Cross-technology attack and defense