XIANG MA

http://maxiang.space/

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EDUCATION

Utah State University (USU) (*August 2019 - Present*)
Ph.D. Student in Electrical and Computer Engineering
Southern University of Science and Technology (SUSTech), China (*August 2013 - June 2017*)
B.S. in Electrical Engineerging

RESEARCH INTERESTS

Federated Learning
Positioning by RFID

TEACHING AND LAB EXPERIENCE

ECE 5600: Introduction to Computer Networks, Fall 2020

ECE 6600: Wireless and Mobile Networking, Spring 2021.

EDUCATION EXPERIENCE

Utah State University

Graduate Research Assistant   August 2019 - Present
Work in USU network innovation lab, focus on federated learning via wireless communication.
Research on positioning of vehicles using RFID in large city environment.

SUSTech
Optimization of ZigBee Protocol in IoT lab, achieves two transmission simultaneously.
Campus WLAN signal traffic test, provide useful advice to the IT department.

WORK EXPERIENCE

Sanfor Technologies, China (June 2017-June 2019).
Software Engineer

Work in virtual technology department and take part in data backup project for the data IO.

Tatfook Technologies, China (June 2016-Sept. 2016).
Software Engineer Intern

Take part in developing a new programming language - NPL(neural parallel language).

PUBLICATIONS

Journal Publications:

1. H. Sun, **X. Ma**, and R. Q. Hu, "Adaptive Federated Learning With Gradient Compression in Uplink NOMA," *IEEE Trans. Veh. Technol.*, vol. 69, no. 12, pp. 16325-16329, 2020.

Conference Publications:

1. **X. Ma**, H. Sun, and R. Q. Hu, "Scheduling policy and power allocation for federated learning in NOMA based MEC," in *Proc. IEEE GLOBECOM*, Taipei, Taiwan, Dec. 2020.

2. H. Sun, Q. Wang, **X Ma**, Y. Xu, R. Q. Hu, "Towards Green Mobile Edge Computing Offloading Systems with Security Enhancement,", *2020 Intermountain Engineering, Technology and Computing (IETC)*, Orem, UT, USA, 2020, pp. 1-6.

HONORS AND AWARDS

- Newly-Established Scholarship from SUSTech, 2013-2016

- Excellent New Employee in Sanfor Technologies, 2017

SERVICES

President of Chinese Student Association, USU, 2020-2021
Freshman Instructor Assistant, SUSTech, 2015-2016

PROFESSIONAL SOCIETIES

IEEE Student Member

SKILLS & EXPERTISE

Computer Languages	Java, Python, C
Sofware	Maltab, LabView, Latex, GNURadio
Hardware	Arduino, Raspberry Pi, USRP