

# Jiahao Xue

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## PUBLICATIONS

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- Bandwidth Allocation for Federated Learning with Wireless Providers and Cost Constraints  
*IEEE Transactions on Mobile Computing* 2023
- Wireless network resource optimization and management for federated learning
- Data-Driven Next-Generation Wireless Networking: Embracing AI for Performance and Security  
*International Conference on Computer Communications and Networks* 2023
- A systematic study on the recent application of machine learning on wireless network
- Effective spatio-temporal regimes for wound treatment by way of macrophage polarization: a mathematical model  
*Frontiers in Applied Mathematics and Statistics* 2022
- A mathematical model, optimization, and solution to the wound treatment

## PROJECTS

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- DARPA: Bioelectronic Intelligent Control of Wound Regeneration (BETR)** | *Matlab* June 2020
- A DARPA project for wound treatment, details can be found in my publication 2022
- TurtleBot and ROS** | *Python* June 2020
- Developed a Python script to remote control and navigate TurtleBot

## EDUCATION

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- University of South Florida** Tampa, FL  
*Doctor of Philosophy in Electrical Engineering, Minor in Wireless Networking* Sep. 2021 – Sep 2026
- University of California, Santa Cruz** Santa Cruz, CA  
*Master in Electrical Engineering* Sep. 2019 – Sep 2021
- Huazhong University of Science and Technology** Hubei, China  
*Bachelor in Marine Engineering* Sep. 2014 – Sep 2018

## TEACHING

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- Teaching Assistant** Jan 2022 – Present  
*University of South Florida*
- Electrical System

## TECHNICAL SKILLS

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**Languages:** Matlab, Python  
**Developer Tools:** PyCharm