

Yuntong Zhang

Education

- Ph.D., Computer Science, University of Texas at San Antonio, 2024
- M.Sc., Computer Technology, University of Electronic Science and Technology of China, 2019
- B.E., Software Engineering, University of Electronic Science and Technology of China, 2016

Academic experience

- Prairie View A&M University, Assistant Professor, 2024 - present, full time

Certifications or professional registrations

- Design Automation Conference (DAC) Young Fellow
- Cisco Certified Networking Associate (CCNA)

Honors and awards

- Best Paper Award of IEEE EdgeCom, 2018

Service activities (within and outside of the institution)

- Cyber-Physical Systems and Internet-of-Things (CPS-IoT) Week conference, 2023
- ACM/IEEE Supercomputing Conference Artifact Evaluation, 2021

Publications

- Jingye Xu, **Yuntong Zhang**, Wei Wang, et al. A Comprehensive PPG-based Dataset for HR/HRV Studies. IEEE International Conference on Healthcare Informatics (ICHI), 2025
- Jingye Xu, **Yuntong Zhang**, Wei Wang, et al. Touchless Restroom Monitoring: A Privacy-Preserving System for Patient Care. The 3rd International Workshop on Human-Centered Sensing, Modeling, and Intelligent Systems (HumanSys), 2025
- Mahathir Monjur, Jia Liu, Jingye Xu, **Yuntong Zhang**, et al. Data Distribution Dynamics in Real-World WiFi-Based Patient Activity Monitoring for Home Healthcare. IEEE International Conference on Healthcare Informatics (ICHI), 2024.
- Jingye Xu, **Yuntong Zhang**, Mimi Xie, et al. Real-time intelligent on-device monitoring of heart rate variability with PPG sensors, Journal of Systems Architecture, 2024.
- **Yuntong Zhang**, Jingye Xu, Mimi Xie, et al. Efficient and Direct Inference of Heart Rate Variability using Both Signal Processing and Machine Learning, IEEE/ACM international conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE), 2023.
- **Yuntong Zhang**, Jingye Xu, Mimi Xie, et al. PPG-Based Heart Rate Estimation with Efficient Sensor Sampling and Learning Models, IEEE International Conference on Embedded Software and Systems (ICESS), 2022.

- **Yuntong Zhang**, Jingye Xu, Zhiwei Wang, et al. Efficient and Intelligent Attack Detection in Software Defined IoT Networks, IEEE International Conference on Embedded Software and Systems (ICESS), 2020.
- **Yuntong Zhang**, Zhiwei Zhao, Chang Shu, et al. Embedding Virtual Network Functions with Backup for Reliable Large-scale Edge Computing, 4th IEEE International Conference on Edge Computing and Scalable Cloud (EdgeCom), Shanghai, 2018.