RUXIN (DAISY) WANG

506 Dolorosa St. San Antonio, TX 78204

Email:wrxin1230@gmail.com | **Homepage**:https://ruxinwang1994.github.io

My research interests are broadly in the area of **Cybersecurity, Mobile Sensing and Computing, AI in Healthcare and AI for Security.** My works have been published in top-tier conferences, including *ACM WiSec '24, IEEE S&P '23, ACM CHI '22, ACM MobiCom '21, and IEEE MASS '21*, and has been reported by LSU News, Tiger TV, Business Report, Digital Trends, TechXplore, Yahoo Finance, AI News, Mobile ID World and 30 other media outlets. I've been named among the *Cyber-Physical System (CPS) Rising Stars* in 2024 and a recipient of the *N2Women Fellowship*.

EDUCATION

Southern Methodist University, Dallas, TX, USA	*Aug. 2020 - Aug. 2025*
Ph.D. in Computer Science (CS)	
Syracuse University, Syracuse, NY, USA	*Aug. 2017 – May. 2019*
M.S. in Computer Engineering (CE)	
Northeast Forestry University, Harbin, China	*Aug. 2013 – May. 2017*
B.S. in Electrical Engineering (EE)	

HONORS AND AWARDS

Cyber-Physical Systems (CPS) Rising Stars 2024	*May. 2024*
Symposium Meritorious Awards at LSU's 5th EECS Graduate Student Research	*Apr. 2024*
Travel Grant at the 44th IEEE Symposium on Security and Privacy (S&P23)	*Apr. 2023*
Third Place Award at the 1st LSU's Graduate Research Conference	*Apr. 2023*
Symposium Meritorious Awards at LSU's 4th EECS Graduate Student Research	*May. 2022*
N2Women Fellowship & Travel Grant at the 27th Annual International Conference On Mobile Computing And Networking (ACM MobiCom21)	*Nov. 2021*
Student Graduated with Honors at Northeast Forestry University	*May. 2017*

PUBLICATIONS

- [**APHA '25**] GV. Gonzalez, B. Mao, **R. Wang**, W. Liu, C. Wang and T. Tseng, "A systematic review of the effectiveness and usability of augmented reality as a dietary control measure", in American Public Health Association, Washington, D.C, November 2025.

- [**APHA '25**] GV. Gonzalez, **R. Wang**, W. Liu, B. Mao, HY. Lin, C. Wang and T. Tseng, "Advancing dietary monitoring through augmented reality: validation of AR glasses for chewing and swallowing behavior assessment", in American Public Health Association, Washington, D.C, November 2025.

- [**NTX BME Symposium '24**] **R. Wang**, GV. Gonzalez, C. Wang and T. Tseng, "Poster: Unobtrusive Drinking Monitoring Using Off-The-Shelf Lightweight AR Glasses." in North Texas Biomedical Engineering Symposium, November 2024.

- [**ACM WiSec '24**] **R. Wang**, K. Madden, L. Huang, C. Wang, "Enhancing QR Code System Security by Verifying the Scanner's Gripping Hand Biometric." *Proceedings of the 17th ACM Conference on Security and Privacy in Wireless and Mobile Networks*, 2024.

- [**IEEE TVT '24**] **R. Wang**, L. Huang, and C. Wang, "Fast Detection of Handheld Phone-distracted Driving by Sensing the Driver's Hand-grip." *IEEE Transactions on Vehicular Technology*, 2024.

- [**IEEE S&P '23**] **R. Wang**, L. Huang, and C. Wang, "Low-effort VR Headset User Authentication Using Head-reverberated Sounds with Replay Resistance." in *Proceedings of the 44th IEEE Symposium on Security and Privacy (IEEE S&P)*, 2023.

- [**XULA '23**] GV. Gonzalez, C. Wang, **R. Wang** and TT. Tseng, "Poster: Extended Reality and Binge Eating Behaviors Among Minorities." in *Proceeding of the 16th Health Disparities Conference (XULA)*, 2023

- [**ACM CHI '22**] **R. Wang**, K. Madden, C. Wang, "Low-effort User Authentication for Kiosk Systems based on Smartphone User's Gripping Hand Geometry." *Late Breaking Work of the 2022 CHI Conference on Human Factors in Computing Systems*, 2022.

- [**IEEE MASS '21**] **R. Wang**, L. Huang, and C. Wang, "Preventing handheld phone distraction for drivers by sensing the gripping hand," in *Proceedings of the 18th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS)*, 2021.

- [**ACM MobiCom '21**] **R. Wang**, L. Huang, and C. Wang, "Poster: Distracted Driving Detection By Sensing The Hand Gripping Of The Phone," in *Proceedings of The 27th Annual International Conference On Mobile Computing And Networking (ACM MobiCom)*, 2021.

TEACHING

CSC7080 Advanced Computer Architecture *Fall 2023*
Teaching Assistant (class size ∼ 30)

CSC4562 Mobile Security and Applied Cryptography *Spring 2023*
Guest Lecturer & Teaching Assistant (class size ∼ 50)

CSC7700 Cyber-physical Security *Fall 2022*
Teaching Assistant (class size ∼ 30)

CSC2362 Introduction to Cybersecurity and Cyber Defense *Fall 2021*
Guest Lecturer & Teaching Assistant (class size ∼ 80)

CSC3501 Computer Organization and Design *Fall 2022*
Teaching Assistant (class size ∼ 70)

MENTORSHIP

Three K-12 Students. *Summer 2021, 2022, 2023*
Project 1: In-Vehicle Smartphone Location Detection Using Device's Built-In Inertial Sensors.

- First place in the St.Joseph's Academy District Fair.

- First place in the Region VII Science & Engineering Fair.

- First place in the Louisiana State Science & Engineering Fair.

Project 2: Tracking Mixed Reality (MR) Users' App Usage Duration through Push Notifications.
Project 3: Detecting Hidden Security Threats With a Thermal Camera.

Two Undergraduate Students. *2021 - 2023*
Project 1: AR-enabled Multi-Modal Dietary Tracking System.
- Software Development Engineer at an insurance company.

Project 2: Two-Factor Smartphone Authentication by Leveraging Challenge-Response from the Phone-Smartwatch Channel.

- Undergraduate Research Assistant at LSU.

One Graduate Student. *2021 - 2022*

Project: Enhancing QR Code System Security by Verifying Scanner's Gripping Hand Biometric.

- Senior Research Associate at the Pennington Biomedical Research Center.

SERVICE

Conference Reviewer. CHI, ICDCS, IWUVT/UbiComp, AsiaCCS. *2021 - Present*

Journal Reviewer. IoT, ESWA, Access, AIHC, Sensor. *2021 - Present*

Organizer and Host. MobiCom '21 N2Women Event. *2022*

EXPERIENCE

Wyze Labs, *AI Scientist Internship* *Jun. 2024 - Aug. 2024*

Leveraging state-of-the-art Vision Language Models (VLMs) and Large Language Models (LLMs) for video anomaly event detection.

HSBC Bank (China) Company Limited, *Software Engineer* *Aug. 2019 - Jul. 2020*

Software development and testing, maintaining and Enhancing Financial Transaction Platform.