

Srinivasan Murali

Assistant Professor, CEMS Department, Texas A&M University- San Antonio
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EDUCATION

Ph.D. in Computer Engineering,

- The University of Texas at Arlington, Arlington, TX, USA
- Advisor: Dr. Ming Li

Aug 2019 – May 2025

M.S. in Electrical Engineering,

- University at Buffalo, The State University of New York, Buffalo, NY, USA
- Advisor: Dr. Zhi Sun

Aug 2017 – Jul 2019

B.E. in Electrical and Electronics Engineering,

- Anna University, Chennai, India

Aug 2013 – Apr 2017

RESEARCH AREAS

- Cybersecurity (Hardware, Systems, GenAI)
- User-centered Mobile/Ubiquitous Computing
- Emerging Hardware technologies

WORKING EXPERIENCE

Assistant Professor, Texas A&M University-San Antonio

Jul 2025 – Present

Graduate Teaching & Research Assistant, The University of Texas at Arlington

Sep 2019 – May 2025

Graduate Research Assistant, University at Buffalo

Nov 2017 – Jul 2019

SELECTED PUBLICATIONS

- [1] LaxmiPrasanna Ravikanti, **Srinivasan Murali**, Jianshu Liu, Shuaikang Hou, Huadi Zhu, “SonoBite: Ultrasound Sensing for Smartphone-based Food Recognition,” in *Proceedings of the IEEE 35th International Workshop on Machine Learning for Signal Processing (MLSP ‘26)*
- [2] Shuaikang Hou, **Srinivasan Murali**, Mingjing Liang, Mingyan Xiao, Huadi Zhu, “GPSniffer: Group-based Location Inference Attack in Augmented Reality using Network Traffic Analysis,” in *Proceedings of the ACM Workshop on Enhancing Security, Privacy, and Trust in Extended Reality (XR) Systems (co-located with MobiCom ‘26)*
- [3] Youngtak Cho, Sanket Suresh Badgajar, **Srinivasan Murali**, Xuhao Xie, Ming Li, “OptiVibe: Keystroke Inference Attacks Through a New Optical-Vibration Side Channel,” in *Proceedings of the 2026 IEEE 46th International Conference on Distributed Computing Systems (ICDCS ‘26)*
- [4] **Srinivasan Murali***, Youngtak Cho*, Huadi Zhu, Pan Li, Ming Li, “SnoopDog: Detecting USB Bus Sniffers Using Responsive EMR,” in *Annual Computer Security Applications Conference (ACSAC ‘25)* * **Equal contribution**
- [5] Shuaikang Hou, Muyao Tang, **Srinivasan Murali**, Huadi Zhu, “Continuous User Authentication for Extended Reality Using Pupil Reflexive Mechanisms as a Biometric,” in *The International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc ‘25)*
- [6] **Srinivasan Murali**, Wenqiang Jin, Vighnesh Sivaraman, Huadi Zhu, Tianxi Ji, Pan Li, Ming Li, “Continuous Authentication using Human-Induced Electric Potential,” in *Annual Computer Security Applications Conference (ACSAC ‘23)*
- [7] **Srinivasan Murali** *, Wenqiang Jin *, Youngtak Cho, Huadi Zhu, Tianhao Li, Rachael Thompson Panik, Anika Rimu, Shuchisnigdha Deb, Kari Watkins, Xu Yuan, and Ming Li, “CycleGuard: A Smartphone-based Assistive Tool for Cyclist Safety Using Acoustic Ranging,” in *The ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp ‘22)* * **Equal contribution**
- [8] Huadi Zhu, Tianhao Li, Chaowei Wang, Wenqiang Jin, **Srinivasan Murali**, Mingyan Xiao, Dongqing Ye, Ming Li, “EyeQoE: A Novel QoE Assessment Model for 360-degree Videos Using Ocular Behaviors,” in *The ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp ‘22)*
- [9] Wenqiang Jin, **Srinivasan Murali**, Huadi Zhu, and Ming Li, “Periscope: A Keystroke Inference Attack Using Human Coupled Electromagnetic Emanations,” in *ACM SIGSAC Conference on Computer and Communications Security (CCS ‘21)*

- [10] Huadi Zhu, Wenqiang Jin, Mingyan Xiao, **Srinivasan Murali**, and Ming Li, “BlinKey: A Two-Factor User Authentication Method for Virtual Reality Devices,” in *The ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp ‘21)*
- [11] Wenqiang Jin, Ming Li, **Srinivasan Murali**, and Linke Guo, “Harnessing the Ambient Radio Frequency Noise for Wearable Device Pairing,” in *ACM SIGSAC Conference on Computer and Communications Security (CCS ‘20)*
- [12] Wenjun Jiang, Hongfei Xue, Chenglin Miao, Shiyang Wang, Sen Lin, Chong Tian, **Srinivasan Murali**, Haochen Hu, Zhi Sun, Lu Su, “Towards 3D Human Pose Construction Using WiFi,” in *The ACM International Conference on Mobile Computing and Networking (MobiCom ‘20)*

**TEACHING/
MENTORING
EXPERIENCE**

- Instructor*, CEMS Dept., A&M-SA Aug 2025 – Present
- CSEC 1306 (Security Tools-I),
 - CSCI 1437 (Programming Fundamentals),
 - CSCI 5391/CSEC 5300 (Research Seminar-Graduate),
 - CSEC 5323 (Cryptography/Secure Communications-Graduate),
 - CSEC 4483/CETE 4481 (Advanced Penetration Testing),
 - CSEC 4394/CETE 4394 (Cyber Intelligence),
 - CSEC 5350 (Intrusion Detection-Graduate),
 - CETE 4375/CSCI 5393/CSEC 5370 (Wireless and Mobile Security-Undergraduate & Graduate).
- Graduate Teaching Assistant*, CSE Dept., UT Arlington Aug 2019 – May 2025
- CSE 4344/5344 (Computer Networks- Undergraduate & Graduate),
 - CSE 6332 (Cloud Computing and Big Data-Graduate),
 - CSE 5335 (Web Data Management-Graduate).
- Student Mentor*, CSE Dept., UT Arlington Jan 2022 – May 2025
- Mentoring junior students (B.S., M.S. and Ph.D.) for research activities.
- Teaching Assistant, OurCS @DFW workshop*, CSE Dept., UT Arlington Feb 2023, 2022, 2021, 2020
- Assisted undergraduate and high-school students in developing real-world IoT systems.
- Student Mentor, Google exploreCSR Project*, CSE Dept., UT Arlington May 2020, 2021
- Mentored undergraduate students to develop a real-world IoT systems and deploy on cloud.

**AWARDS &
SCHOLARSHIPS**

- Outstanding Graduate Teaching Assistant, CSE Dept, UTA College of Engineering 2025
- Student Conferenceship Award (Travel grant), Applied Computer Security Associates 2023
- OurCS@DFW, Runners-up, The University of Texas at Arlington 2023
- Graduate Studies Travel Grant Award, The University of Texas at Arlington 2022
- OurCS@DFW, Honorable Mention, The University of Texas at Arlington 2022
- OurCS@DFW, Runners-up, The University of Texas at Arlington 2021
- OurCS@DFW, Best Team award, The University of Texas at Arlington 2020
- Research Award Scholarship, The Research Foundation for SUNY 2019

**UNIVERSITY
SERVICE**

- Webmaster, A&M-SA College of Arts and Sciences
- Adjunct Faculty Hiring Committee, (Physics & Computer Science)
- Fall 2025/Spring 2026 Events Outreach (CETE Program, CAMSA-HPRC)
- Spring/Summer 2026 Faculty Co-Advisor, NCSA-A&M-SA
- M.S. Thesis Committee Member (Shahin, Nourin & Paul, Sheldon)
- NSF ReU Mentor (Jonathan Garcia)
- Supervised Graduate Research (Deanda, Demetrio & Shet, Apurva)
- External M.S. Mentor (Ravikanti, LaxmiPrasanna)

**PROFESSIONAL
SERVICE**

- TECHNICAL PROGRAM COMMITTEE:**
- IEEE International Conference on Drones, Robotics and Autonomous Systems (*DRAS ‘26*)
 - IEEE International Conference on Distributed Computing Systems (*ICDCS ‘26*)
 - IEEE International Conference on Artificial Intelligence Systems (*AIS ‘26*)
- REVIEWER FOR JOURNALS/CONFERENCE PAPERS:**
- IEEE Transactions on Dependable and Secure Computing (*TDSC*)
 - IEEE Transactions on Mobile Computing (*TMC*)
 - IEEE Transactions on Vehicular Technology (*TVT*)
 - IEEE Conference on Communications and Network Security (*CNS*)

ACM Pervasive Technologies Related to Assistive Environments (*PETRA*)
IEEE International Conference on Intelligent Multimedia, Networking, and Security (*IMNS*)

ORGANIZING COMMITTEE:

IEEE International Conference on Drones, Robotics and Autonomous Systems (*DRAS '26*)
IEEE International Conference on Artificial Intelligence Systems (*AIS '26*)
A&M-SA Research Workshop, 2025, 2026 (*NSF*)

**PRESENTATIONS
(POSTER/PAPER)**

- “Continuous User Authentication for Extended Reality Using Pupil Reflexive Mechanisms as a Biometric”, ACM International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (***MobiHoc***), Houston, TX, Oct. 27-30, 2025.
- “Continuous Authentication using Human-Induced Electric Potential”, Annual Computer Security Applications Conference (***ACSAC***), Austin, TX, Dec. 4 - 8, 2023.
- “CycleGuard: A Smartphone-based Assistive Tool for Cyclist Safety Using Acoustic Ranging”, The ACM International Joint Conference on Pervasive and Ubiquitous Computing (***UbiComp***), Atlanta, GA, Sep. 11 - 15, 2022.