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 — Aug 2019 – May 2025
  - Advisor: Dr. Ming Li

M.S. in Electrical Engineering,
- University at Buffalo, The State University of New York, Buffalo, NY, USA — Aug 2017 – Jul 2019
  - Advisor: Dr. Zhi Sun

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] **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***

[2] 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)***

[3] **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)***

[4] **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***

[5] 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)***

[6] 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)***

[7] 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)***

[8] 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)***

[9] 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
- 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 5350 (Intrusion Detection-Graduate),
- CETE 4375/CSCI 5393/CSEC 5370 (Wireless and Mobile Security-Undergradute & 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 (Nourin Shahin & Sheldon Paul)
- NSF ReU Mentor (Jonathan Garcia)

PROFESSIONAL SERVICE

TECHNICAL PROGRAM COMMITTEE:

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)*

ORGANIZING COMMITTEE:

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.