Raveen Wijewickrama

Location	San Antonio, USA	**Email**	raveen.wijewickrama@utsa.edu
		Webpage	sprite.utsa.edu/people/rwijewickrama
		Linkedin	raveenwijewick
		Google Scholar	7T6nHKgAAAAJ

Education

2018-2024 PhD in Computer Science - The University of Texas at San Antonio, Texas, USA

2016-2017 MS in Computer Science - Wichita State University, Kansas, USA

2012-2015 BS in Computer Science - Asia Pacific Institute of Information Technology (APIIT), Sri Lanka

Work Experience

Sept 2024 - Present ScooterLab, The University of Texas at San Antonio
Vehicle and Sensing Systems Development Lead / Researcher

A National Science Foundation's (NSF) CISE Community Infrastructure (CCRI) program funded project. Award Numbers: 2016717, 2234516.

Aug 2020 - Aug 2024 ScooterLab, The University of Texas at San Antonio
Vehicle and Sensing Systems Development Lead / Research Assistant

A National Science Foundation's (NSF) CISE Community Infrastructure (CCRI) program funded project. Award Numbers: 2016717, 2234516.

Aug 2018 - Aug 2024 SPriTELab, The University of Texas at San Antonio
Research Assistant

Jan 2023 - Aug 2023 Department of Computer Science, The University of Texas at San Antonio
Graduate Teaching Assistant

May 2022 - Aug 2022 Phylum Inc.
Engineering Intern - Research

May 2017 - Dec 2017 SPriTELab, Wichita State University
Research Assistant

Aug 2016 - Dec 2017 Department of Computer Science, Wichita State University
Graduate Teaching Assistant

Research Interests

- **Micromobility, Privacy and Security, Mobile Sensing, Wearable Systems, Web Security**

Awards

- Received ACM student travel grant for 12th and 15th ACM Conference on Security and Privacy in Wireless and Mobile Networks, 2022.

Services and Affiliations

- Web Chair - 15th ACM Conference on Security and Privacy in Wireless and Mobile Networks, 2022.
- Replicability Committee Member - 15th ACM Conference on Security and Privacy in Wireless and Mobile Networks, 2022.

Mentoring Experience

- A.H.M Nazmus Sakib - PhD student in Computer Science at UTSA.
- Christian Bargraser - BS/MS in Computer Science from UTSA, 2023.
- Josh Klopfenstein - BS in Computer Science from UTSA, 2022.
- Oscar Ortiz - BS in Computer Science from UTSA, 2020.

Press Coverage

2023 KSAT - UTSA researchers receive 1.7 million grant to deploy data collecting e-scooters.

2021 Business Insider - How researchers at the University of Texas at San Antonio are helping the fast-growing city mitigate traffic and make its roads safer.

2021 San Antonio Express News - UTSA researchers turning scooters into smart data collectors.

Presentations

- Wijewickrama, R., Ashan M.K., B., Griffin, G.P., Prasad, S., Maiti, A., & Jadliwala, M. (2023, April). A Programmable and Participatory Sensing Testbed using Micromobility Vehicles. Poster presented at the UTSA School of Data Science Los Datos Conference, [San Antonio, Texas, USA].
- Wijewickrama, R., Maiti, A., & Jadliwala, M. (2021, June). Write to Know: On the Feasibility of Wrist Motion based User-Authentication from Handwriting. Paper presented at the ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec), Abu Dhabi, UAE.
- Wijewickrama, R., Maiti, A., & Jadliwala, M. (2019, May). deWristified: Handwriting Inference Using Wrist-Based Motion Sensors Revisited. Paper presented at the ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec), Miami, Florida, USA.

Research Publications

[1] C. Sendner, J. Stang, A. Dmitrienko, R. Wijewickrama, and M. Jadliwala. Mirageflow: A new bandwidth inflation attack on tor. In *Network and Distributed System Security (NDSS) Symposium 2024*, 01 2024.

[2] R. Wijewickrama, S. A. Dohadwalla, A. Maiti, M. Jadliwala, and S. Narain. Skinsense: Efficient vibration-based communications over human body using motion sensors. *Internet of Things*, 23:100835, 2023.

[3] N. Vinayaga-Sureshkanth, R. Wijewickrama, A. Maiti, and M. Jadliwala. An investigative study on the privacy implications of mobile e-scooter rental apps. In *Proceedings of the 15th ACM Conference on Security and Privacy in Wireless and Mobile Networks*, 2022.

[4] N. Vinayaga-Sureshkanth, , A. Maiti, M. Jadliwala, R. Wijewickrama, and G. P. Griffin. Impact of e-scooters on pedestrian safety: A field study using pedestrian crowd-sensing. In *IEEE PerCom Workshop on Sensing Systems and Applications using Wrist Worn Smart Devices (WristSense)*, 2022.

[5] R. Wijewickrama, A. Maiti, and M. Jadliwala. Write to know: on the feasibility of wrist motion based user-authentication from handwriting. In *Proceedings of the 14th ACM Conference on Security and Privacy in Wireless and Mobile Networks*, pages 335–346, 2021.

[6] N. Vinayaga-Sureshkanth, R. Wijewickrama, A. Maiti, and M. Jadliwala. Security and privacy challenges in upcoming intelligent urban micromobility transportation systems. In *ACM Workshop on Automotive and Aerial Vehicle Security (AutoSec)*, 2020.

[7] R. Wijewickrama, A. Maiti, and M. Jadliwala. dewristified: handwriting inference using wrist-based motion sensors revisited. In *Proceedings of the 12th Conference on Security and Privacy in Wireless and Mobile Networks*, pages 49–59, 2019.