

AAKRITI ADHIKARI

+1419-320-2286 ◊ South Carolina, US

aakriti@email.sc.edu ◊ <https://cse.sc.edu/aakriti/>

RESEARCH INTERESTS

Digital Health, Applied Machine Learning, Millimeter-Wave Communications and Networks, and Wireless and Mobile System applications.

EDUCATION

PhD in Computer Science , University of South Carolina	Fall 2020-Ongoing
Masters in Electrical Engineering , University of Toledo	2017-2019
Bachelors in Electrical and Electronics Engineering , Kathmandu University	2011-2015

PUBLICATIONS

(* indicates co-primary authors)

Paper: **Argosleep: Monitoring Sleep Postures from Commodity Millimeter-Wave Devices**,
[Aakriti Adhikari](#), Sanjib Sur
IEEE International Conference on Computer Communications (INFOCOM), Newyork ,USA, May 2023.

Paper: **MiShape: Accurate Human Silhouettes and Body Joints from Commodity Millimeter-Wave Devices**,
[Aakriti Adhikari](#), Hem Regmi, Sanjib Sur, Srihari Nelakuditi
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies(IMWUT), Vol. 6, No. 3, Article 96, September 2022.

Paper: **mmFlow: Facilitating At-Home Spirometry with 5G Smart Devices**,
[Aakriti Adhikari*](#), Austin Hetherington*, Sanjib Sur
IEEE International Conference on Sensing, Communication and Networking (SECON), 2021.

mmSleep: Monitoring Sleep Posture from Commodity Millimeter-Wave Devices,
[Aakriti Adhikari](#), Siri Avula, Sanjib Sur
Proceedings of the 20th Annual International Conference on Mobile Systems, Applications and Services (MobiSys), Oregon,USA, July 2022.

MilliPose: Facilitating Full Body Silhouette Imaging from Millimeter-Wave Device,
[Aakriti Adhikari](#) and Sanjib Sur
Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers (IMWUT), 2021.

SpiroMilli: Bringing Ad-hoc Spirometry to 5G Devices,
[Aakriti Adhikari*](#), Austin Hetherington*, Sanjib Sur The 22nd International Workshop on Mobile Computing Systems and Applications (HotMobile'21), 2021.

Skin Cancer Detection using Generative Adversarial Network and an Ensemble of deep Convolutional Neural Networks,
[Aakriti Adhikari](#),
University of Toledo, 2019.

HONORS AWARDS

2023 CRA-WP Grad Cohort for Women

Computing Research Association (CRA) selected me to participate in 2023 CRA-WP Grad Cohort for Women

Student Travel Grant at MobiSys 2022

Awarded travel grant to attend MobiSys 2022.

Grace Hopper Celebration 2021

Department of Computer Science and Engineering selected me to participate in Grace Hopper Celebration (GHC), Sept. 27 - Oct 1, 2021.

Grace Hopper Celebration 2020

Department of Computer Science and Engineering selected me to participate in Grace Hopper Celebration (GHC), Sept. 29 - Oct 2, 2020.

O'reilly Strata Data Conference 2019

Scholarship recipient of O'reilly Strata Data Conference 2019.

WORK EXPERIENCE

Junior Data Analyst, Growphase Technologies, Nepal

2016-2017

Undergraduate Intern, Nepal Telecom, Nepal

2015

PATENTS

Transforming Cheap Spirometers to estimate Flow-Volume Graph by Deep Learning

Sanjib Sur, Aakriti Adhikari

US Patent Application 63/182,257, filed in April 2021

Facilitating at-home Spirometry with Millimeter-Wave Devices

Sanjib Sur, Aakriti Adhikari

US Patent Application 63/176,514, filed in April 2021

MEMBERS

Women In AI (WAI)

Women In Computing (WIC), UofSC

Women WHO Code (WWC), Charlotte

TECHNICAL SKILLS

- **Python, Matlab, C++, Java**
- **Signal Processing, Machine Learning, Circuit Design**
- **Machine Learning:** Supervised Learning, Unsupervised Generative models