

Debashri Roy, PhD

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Current Research Interests

- **Multimodal Sensor Fusion:** Deep learning based fusion of multimodal sensing data from LiDAR, camera, GPS, acoustic, radar, and radio frequency sensors for situational assessment, enabling digital twins and autonomous vehicles; Practical demonstration on **millimeter wave band and V2X networks**.
- **Deep Spectrum Learning in NextG Communication:** Deep learning based solutions in wireless spectrum sensing, sharing, signal detection, and RF fingerprinting; Applied research in the **CBRS and sub-6 GHz band**.
- **Networked Robotics:** Reinforcement learning for coordination, computation and communication for unmanned autonomous systems; Real-world and emulation study on **automated factory floor in Industry 4.0**.

Education

- 08/15 - 04/20 ■ **Ph.D., Computer Science, University of Central Florida.**
Thesis title: *Machine Learning based RF Transmitter Characterization in the Presence of Adversaries*. Advisor: Dr. Mainak Chatterjee.
- 08/15 - 04/18 ■ **Master of Science, Computer Science, University of Central Florida.**
- 07/11 - 07/13 ■ **Master of Engineering, Information Technology, Indian Institute of Engineering Science and Technology, Shibpur.**
Thesis title: *Study and Design of Algorithms for Optimization in Global Routing for 3D Integrated Circuits*. Advisor: Dr. Prasun Ghosal.
- 07/05 - 06/09 ■ **Bachelor of Engineering, Information Technology, Indian Institute of Engineering Science and Technology, Shibpur.**

Professional Experiences

- 04/22 - Cur ■ Working as **Associate Research Scientist at Northeastern University**. Boston, USA. (Full time)
Supervisor: Prof. Kaushik Chowdhury.
- 07/20 - 03/22 ■ **Experiential AI Post-doc at Northeastern University**. Boston, USA. (Full time)
Supervisor: Prof. Kaushik Chowdhury.
- 05/20 - 06/20 ■ **Research Scientist at University of Florida Research and Engineering Education Facility**. Shalimar, USA. (Full time)
Project: RF Antenna Pose and Range Estimation using Deep Learning.
- 05/19 - 08/19 ■ Summer Intern at **University of Florida Research and Engineering Education Facility**. Shalimar, USA. (Part time)
Project: GPS Spoofing Detection using Satellite Fingerprinting and GAN Training.
- 05/18 - 08/18 ■ Summer Intern at **Intelligent Robotics Inc.** Tallahassee, USA. (Full time)
Project: Detection of Rogue Transmitter in Radio Frequency Machine Learning System.
- 05/17 - 08/17 ■ Summer Intern at **University of Florida Research and Engineering Education Facility**. Shalimar, USA. (Part time)
Project: Channel Adaptive Real-time Video Streaming over DSA.
- 01/16 - 04/17 ■ PhD Intern at **Athena-Tek LLC**. Orlando, USA. (Part time)
Areas: LVC (Live Virtual Constructive) Networks- Modeling and Simulation.

Professional Experiences (continued)

- 08/17 - 12/19 ■ Graduate Teaching Assistant at **University of Central Florida, USA**. (Part time)
Courses Taught: Computer Science II (COP 3503), Systems Software (COP 3402), Object Oriented Programming (COP 3330), Operating Systems (COP 4600), Advanced Computer Architecture (CDA 5106).
- 07/13 - 06/15 ■ Research Scholar at **Indian Institute of Engineering Science and Technology, Shibpur, India**. (Full time)
Project: Performance-centric Design Optimization in 3D Nanoscale Integrated Circuits and Systems.
- 07/09 - 08/11 ■ Software Engineer at **Metalogic System Private Limited, Kolkata, India**. (Full time)
Role: 2 years and 2 months of experience in Core Java, J2EE, Swing and Java EE based application development, and worked in four different projects.

Awards and Achievements

- Awards ■ **IEEE Senior Member**, Nov 2022.
■ Doctoral Research Support Award from College of Graduate Studies of University of Central Florida, USA, 2019 (~\$5000).
■ Best Paper Runner-up award, IEEE International Performance, Computing, and Communications Conference, USA, 2018.
■ NSF Student Travel Grant, IEEE Global Communications Conference, USA, 2019 (~\$1200).
■ NSF Student Travel Grant, IEEE International Symposium on Dynamic Spectrum Access Networks, USA, 2019 (~\$800).
■ Selected as Grace Hopper Scholar, 2016.
- Fellowship ■ Presentation Fellowship from University of Central Florida, USA, 2019 (~\$500).
- Scholarship ■ GATE Scholarship from Ministry of Human Resource Development (MHRD), India, August 2011- June 2013.
- Membership ■ IEEE, ComSoc, ACM, SIAM [2018-Present].

External Sponsored Research Funding

- NSF ■ MEDUSA: Mid-band Environmental Sensing Capability for Detecting Incumbents during Spectrum Sharing, *National Science Foundation Spectrum and Wireless Innovation enabled by Future Technologies (NSF SWIFT)* Program, Nov. 2022- Oct. 2025, Co-PI. **Total Funding: \$750,000; Roy's share: \$188,066.**

Research Publications

Summary: h-index = 10, i10-index = 12, citations = 365, with total of 15 journal/magazine papers, 17 conference/symposium papers, 2 book chapters, 5 provisional patents. All metrics retrieved from Google Scholar in June 2023.

Selected Journal Articles

- 1 **Debashri Roy**, Batool Salehi, Stella Banou, Subhramoy Mohanti, Guillem Reus-Muns, Mauro Belgiovine, ... Kaushik Chowdhury. (2023, March). Going Beyond RF: A Survey on how AI-enabled Multimodal Beamforming will Shape the NextG Standard. *Elsevier Computer Networks*. doi:10.1016/j.comnet.2023.109729
- 2 Nasim Soltani, **Debashri Roy**, & Kaushik Chowdhury. (2023). PRONTO: Preamble Overhead Reduction with Neural Networks for Coarse Synchronization. *IEEE Transactions on Wireless Communications*, 1-1. doi:10.1109/TWC.2023.3256961
- 3 Subhramoy Mohanti, **Debashri Roy**, Mark Eisen, Dave Cavalcanti, & Kaushik Chowdhury. (2023, April). L-NORM: Learning and Network Orchestration at the Edge for Robot Connectivity and Mo-

bility in Factory Floor Environments. *IEEE Transactions on Mobile Computing*. doi:10.1109/TMC.2023.3266643

- 4 Utku Demir*, Suyash Pradhan*, Richard Kumahia, **Debashri Roy**, Stratis Ioannidis, & Kaushik Chowdhury. (2023, May). Digital Twins for Maintaining QoS in Programmable Vehicular Networks. *IEEE Networks Magazine*. [Accepted].
- 5 Batool Salehi, Guillem Reus-Muns, **Debashri Roy**, Zifeng Wang, Tong Jian, Jennifer Dy, ... Kaushik Chowdhury. (2022). Deep Learning on Multimodal Sensor Data at the Wireless Edge for Vehicular Network. *IEEE Transactions on Vehicular Technology*. doi:10.1109/TVT.2022.3170733
- 6 **Debashri Roy**, Tathagata Mukherjee, Alec Riden, Jared Paquet, Eduardo Pasiliao, & Erik Blasch. (2022). GANSAT: A GAN and SATellite Constellation Fingerprint-based Framework for GPS Spoof-Detection and Location Estimation in GPS Deprived Environment. *IEEE Access*, 10, 45485–45507. doi:10.1109/ACCESS.2022.3169420
- 7 **Debashri Roy**, Yuanyuan Li, Tong Jian, Peng Tian, Kaushik R. Chowdhury, & Stratis Ioannidis. (2022). Multi-modality Sensing and Data Fusion for Multi-vehicle Detection. *IEEE Transactions on Multimedia*, 1–16. doi:10.1109/TMM.2022.3145663
- 8 Jerry Gu, Batool Salehi, **Debashri Roy**, & Kaushik R. Chowdhury. (2022). Multimodality in mmWave MIMO Beam Selection using Deep Learning: Datasets and Challenges. *IEEE Communications Magazine*, 1–7. doi:10.1109/MCOM.002.2200028
- 9 Mauro Belgiovine, Kunal Sankhe, Carlos Bocanegra, **Debashri Roy**, & Kaushik R. Chowdhury. (2021). Deep Learning at the Edge for Channel Estimation in Beyond-5G Massive MIMO. *IEEE Wireless Communications Magazine*, 28(2), 19–25. doi:10.1109/MWC.001.2000322
- 10 Muthukumaran Ramasubramanian, Chaity Banerjee, **Debashri Roy**, Tathagata Mukherjee, & Eduardo Pasiliao. (2021). Exploiting Spatio-Temporal Properties of I/Q Signal Data using 3D Convolution for RF Transmitter Identification. *IEEE Journal of Radio Frequency Identification*, 1–1. doi:10.1109/JRFID.2021.3051901
- 11 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, & Eduardo Pasiliao. (2020). Adaptive Streaming of HD and 360 Degree Videos over Software Defined Radios. *Elsevier Pervasive and Mobile Computing*, 67, 101215. doi:https://doi.org/10.1016/j.pmcj.2020.101215
- 12 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, Erik Blasch, & Eduardo Pasiliao. (2020). RFAL: Adversarial Learning for RF Transmitter Identification and Classification. *IEEE Transactions on Cognitive Communications and Networking*, 6(2), 783–801. doi:10.1109/TCCN.2019.2948919
- 13 **Debashri Roy**, Tathagata Mukherjee, & Mainak Chatterjee. (2019). Machine Learning in Adversarial RF Environments. *IEEE Communications Magazine*, 57(5), 82–87. doi:10.1109/MCOM.2019.1900031
- 14 **Debashri Roy**, Mainak Chatterjee, & Eduardo Pasiliao. (2017). Video Quality Assessment for Inter-vehicular Streaming with IEEE 802.11p, LTE, and LTE Direct Networks over Fading Channels. *Elsevier Computer Communications*, 118(100), 69–80. doi:https://doi.org/10.1016/j.comcom.2017.09.010
- 15 **Debashri Roy**, Prasun Ghosal, & Saraju P. Mohanty. (2015). FuzzRoute: A Thermally Efficient Congestion-Free Global Routing Method for Three-Dimensional Integrated Circuits. *ACM Transaction of Design Automation Electronic Systems*, 21(1), 1–38. doi:10.1145/2767127

Selected Conference Proceedings

- 1 **Debashri Roy**, Vini Chaudhury, Chineneye Tassie, Chad M Spooner, & Kaushik R. Chowdhury. (2023, May). ICARUS: Learning on IQ and Cycle Frequencies for Detecting Anomalous RF Underlay Signals. In *IEEE International Conference on Computer Communications (INFOCOM)*.
- 2 Guillem Reus-Muns, Kubra Alemdar, Sara Garcia Sanchez, **Debashri Roy**, & Kaushik Chowdhury. (2023, June). AirFC: Designing Fully Connected Layers for Neural Networks with Wireless Signals. In *International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc)*.
- 3 Jerry Gu, Batool Salehi, Snehal Pimple, **Debashri Roy**, & Kaushik R. Chowdhury. (2023, May). TUNE: Transfer Learning in Unseen Environments for V2X mmWave Beam Selection. In *IEEE International Conference on Communications (ICC)*.

- 4 Jerry Gu, Liam Colins, **Debashri Roy**, Aryan Mokhtari, Sanjay Shakkottai, & Kaushik R. Chowdhury. (2023, June). Meta-learning for Image-guided Millimeter-wave Beam Selection in Unseen Environments. In *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*.
- 5 Tong Jian, **Debashri Roy**, Batool Salehi, Nasim Soltani, Kaushik R. Chowdhury, & Stratis Ioannidis. (2023, May). Communication-Aware DNN Pruning. In *IEEE International Conference on Computer Communications (INFOCOM)*.
- 6 Amr Salah Kassab, Stella Banou, **Debashri Roy**, & Kaushik R. Chowdhury. (2022, December). FERST: A Full ECG Reception System for User Authentication using Two-stage Deep Learning. In *IEEE Global Communications Conference (GLOBECOM)* (pp. 873–878). doi:10.1109/GLOBECOM48099.2022.10001694
- 7 Batool Salehi, Jerry Gu, **Debashri Roy**, & Kaushik R. Chowdhury. (2022). FLASH: Federated Learning for Automated Selection of High-band mmWave Sectors. In *IEEE International Conference on Computer Communications (INFOCOM)* (pp. 1719–1728). doi:10.1109/INFOCOM48880.2022.9796865
- 8 Nasim Soltani*, Vini Chaudhury*, **Debashri Roy**, & Kaushik R. Chowdhury. (2022, December). Finding Waldo in the CBRS Band: Signal Detection and Localization in the 3.5 GHz Spectrum. In *IEEE Global Communications Conference (GLOBECOM)*.
- 9 Alec Riden, **Debashri Roy**, Tathagata Mukherjee, & Eduardo Pasiliao. (2021, October). DeePOE: Deep Learning for Position and Orientation Estimation. In *26th IEEE Asia Pacific Conference on Communications* (pp. 235–242). doi:10.1109/APCC49754.2021.9609872
- 10 Guillem Reus-Muns, Batool Salehi, **Debashri Roy**, Tong Jian, Zifeng Wang, Jennifer Dy, ... Kaushik Chowdhury. (2021). Deep Learning on Visual and Location Data for V2I mmWave Beamforming. In *IEEE International Conference on Mobility, Sensing and Networking (MSN)* (pp. 559–566). doi:10.1109/MSN53354.2021.00087
- 11 Sayanta Seth, **Debashri Roy**, & Murat Yuksel. (2020). Spectrum Sharing Secondary Users in Presence of Multiple Adversaries. In *International Conference on NETWORK Games CONTROL and oPTimization* (pp. 125–135). Springer International Publishing.
- 12 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, & Eduardo Pasiliao. (2019a, December). Defense against PUE Attacks in DSA Networks using GAN based Learning. In *IEEE Global Communications Conference (GLOBECOM)* (pp. 1–6). doi:10.1109/GLOBECOM38437.2019.9014014
- 13 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, & Eduardo Pasiliao. (2019b, April). Detection of Rogue RF Transmitters using Generative Adversarial Nets. In *IEEE Wireless Communications and Networking Conference (WCNC)* (pp. 1–7). doi:10.1109/WCNC.2019.8885548
- 14 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, & Eduardo Pasiliao. (2019c, November). Primary User Activity Prediction in DSA Networks Using Recurrent Structures. In *IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN)* (pp. 1–10). doi:10.1109/DySPAN.2019.8935716
- 15 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, & Eduardo Pasiliao. (2019d, December). RF Transmitter Fingerprinting Exploiting Spatio-temporal Properties in Raw Signal Data. In *IEEE International Conference on Machine Learning and Applications (ICMLA)* (pp. 89–96). doi:10.1109/ICMLA.2019.00023
- 16 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, & Eduardo Pasiliao. (2018, November). Adaptive Video Encoding and Dynamic Channel Access for Real-time Streaming over SDRs. In *IEEE International Performance Computing and Communications Conference (IPCCC)* (pp. 1–9). [Best Paper Runner-up Award]. doi:10.1109/IPCCC.2018.8710795
- 17 **Debashri Roy**, Prasun Ghosal, & Saraju P. Mohanty. (2014, July). FuzzRoute: A Method for Thermally Efficient Congestion Free Global Routing in 3D ICs. In *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)* (pp. 71–76). doi:10.1109/ISVLSI.2014.52
- 18 **Debashri Roy** & Prasun Ghosal. (2013, July). A Fuzzified Approach Towards Global Routing in VLSI Layout Design. In *IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)* (pp. 1–8). doi:10.1109/FUZZ-IEEE.2013.6622477

Book Chapters

- 1 **Debashri Roy**, Tathagata Mukherjee, & Eduardo Pasiliao. (2021). Exploiting Spatio-temporal Correlation in RF Data using Deep Learning. In *Deep Learning Applications, Volume 2* (pp. 143–172). Springer. doi:10.1007/978-981-15-6759-9_7
- 2 Chandan Bandyopadhyay, Shalini Parekh, **Debashri Roy**, & Hafizur Rahaman. (2020). Improving the Designs of ESOP-Based Reversible Circuits. In *Design and Testing of Reversible Logic* (pp. 49–64). doi:10.1007/978-981-13-8821-7_4

Patents Filed

- 1 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, & Eduardo Pasiliao. (U.S. Patent 2020, March). Transmitter Identification Using Adversarial Networks and IQ Data. Status: Provisional Patent Application (62/993,748).
- 2 **Debashri Roy**, Tathagata Mukherjee, Mainak Chatterjee, Erik Blasch, & Eduardo Pasiliao. (U.S. Patent 2020, March). Adversarial Learning for RF Transmitter Identification and Classification. Status: Provisional Patent Application (62/993,751).
- 3 Kaushik Chowdhury & **Debashri Roy**. (U.S. Patent 2022, February). FLASH: Federated Learning for Automated Selection of High-band mmWave Sectors. Status: Provisional Patent Application (63/314,336).
- 4 Kaushik Chowdhury & **Debashri Roy**. (U.S. Patent 2023, January). System for Software-Based Emulation of Wireless Communication Environments for Autonomous Vehicles. Status: Provisional Patent Application (63/441,175).
- 5 Tathagata Mukherjee, Eduardo Pasiliao, **Debashri Roy**, Alec Riden, & Jared Paquet. (U.S. Patent 2020, November). GANSAT: A GAN and SATEllite Constellation Signal-based Framework for Detecting GPS Spoofers. Status: Provisional Patent Application (63/086,126).

Submitted Articles

- 1 Batool Salehi, **Debashri Roy**, Tong Jian, Chris Dick, Sratis Ioannidis, & Kaushik Chowdhury. (2023). Omni-CNN: A Modality-agnostic Neural Network for mmWave Beam Selection. In *IEEE Transactions on Vehicular Technology*. Submitted 04/20/23.
- 2 Batool Salehi*, Utku Demir*, **Debashri Roy**, Suyash Pradhan, Sratis Ioannidis, & Kaushik Chowdhury. (2023). Multiverse at the Edge: Interacting Virtual and Real Worlds for Automotive Wireless Beamforming. In *IEEE Transactions on Networking*. Submitted 04/29/23.
- 3 Nasim Soltani, Jifan Zhang, Batool Salehi, **Debashri Roy**, Robert Nowak, & Kaushik Chowdhury. (2023). Learning from the Best: Active Learning for Wireless Communications. In *IEEE Communications Magazine*. Submitted 05/04/23.
- 4 Batool Salehi, **Debashri Roy**, Jerry Gu, Chris Dick, & Kaushik Chowdhury. (2022). FLASH-and-Prune: Federated Learning for Automated Selection of High-band mmWave Sectors using Model Pruning. In *IEEE Transactions on Mobile Computing*. Submitted 08/10/22.

Miscellaneous Experiences

Editorial Board

- 2022-current ■ Area Editor in Elsevier Computer Communications journal (IF: 3.167).
- 2021-current ■ Associate Editor in Elsevier Software Impact journal.

OC Member

- 2024 ■ Publicity Co-chair at IEEE Consumer Communications & Networking Conference (CCNC).
- 2023 ■ EDAS Chair at IEEE Military Communications Conference (MILCOM).
- Track Co-chair at International Conference on Mobility, Sensing and Networking (MSN).
- Publicity Co-chair at IEEE Consumer Communications & Networking Conference (CCNC).

Miscellaneous Experiences (continued)

- Session Chair at IEEE International Conference on Computer Communications (INFOCOM).
- 2022 ■ Publicity Co-chair at IEEE Consumer Communications & Networking Conference (CCNC).
- 2021 ■ Member of 'Women in AI' panel at the NSF AI Edge Institute.
- Web Chair at International Symposium on Dynamic Spectrum Access Networks (DySPAN).
- Session Chair at IEEE International Conference on Computer Communications (INFOCOM).
- Poster Co-chair at IEEE International Symposium on Local and Metropolitan Area Networks (LANMAN).
- 2019 ■ Member of Graduate Grade Appeal Committee, University of Central Florida.

Board Member

- 2023 ■ 'Vice Chair' at AI/ML Section SIG) IEEE Technical Committee on Cognitive Networks.
- 2022 ■ 'Mentoring Co-Chair' at IEEE ComSoc N2Women Board.
- Member of 'Women in AI and Networking' Panel in AI Edge Institute.

TPC Member

- ACM MobiHoc 22, 23 ■ In International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc).
- IEEE ICC 22 23 ■ In 'Mobile and Wireless Networks Symposium' at IEEE International Conference on Communications.
- IEEE CCNC 22, 23 ■ In 'Consumer Communications & Networking Conference'.
- IEEE ICDCS 22, 23 ■ In 'Internet of Things and Cyber Physical Systems' at IEEE International Conference on Distributed Computing Systems.
- IEEE LANMAN 22, 23 ■ In IEEE International Symposium on Local and Metropolitan Area Networks (LANMAN).
- IEEE VTC 22, 23 ■ In various tracks at IEEE 95th Vehicular Technology Conference.
- IEEE ICCCN 22 21 ■ In 30th 'International Conference on Computer Communications and Networks'.
- IEEE DySPAN 21 ■ In IEEE International Symposium on Dynamic Spectrum Access Networks.
- ACM CCGrid 21, 22 ■ In 'Serverless To sErVE moRe at Scale' workshop.
- IEEE ICC 21 ■ In 'SAGE: Green Solutions for smArt Environment' workshop.
- IEEE CCNC 21 ■ In 'AI/ML in Wireless Sensing, Communication and Applications' track.
- TCB6GN 21 ■ In 'Traffic Congestion in Beyond 5G/6G Networks' workshop, in conjunction with IEEE CCNC.

Reviewer

- Journal ■ IEEE Journal on Selected Areas in Communications, IEEE Transactions on Communications, IEEE Transactions on Wireless Communications, IEEE Transactions on Networking, IEEE Transactions on Mobile Computing, IEEE Transactions on Vehicular Technology, IEEE Transactions on Information Forensics & Security, IEEE Transactions on Cognitive Communications and Networking, IEEE Transactions on Intelligent Transportation Systems, IEEE Internet of Things Magazine, IEEE Communications Magazine, IEEE Communications Letters, IEEE Networking Letters, Elsevier Pervasive and Mobile Computing, Elsevier Computer Communications, Elsevier Computational and Structural Biotechnology.

Miscellaneous Experiences (continued)

- Conference ■ IEEE INFOCOM 21, Wi-DroIT 20, IEEE ICC 20, IEEE TSP 20, ICDCN 20, IEEE DySPAN 19, ACM MMSYS 19, ACM NOSSDAV 18, 19, ACM SIGMM 17, IEEE ISVLSI 14, 15.

Tutorial

- ACMSE 22 ■ Practical Use of SDR for Machine Learning in RF Environments.

Technical Talks

- WiCyS 22 ■ Invited talk in Women in CyberSecurity organization.
AI-EDGE 22 ■ Invited paenslist in NSF AI-EDGE Institution summer internship program.
ICMLA 19 ■ RF Transmitter Fingerprinting Exploiting Spatio-temporal Properties in Raw Signal Data.
DySPAN 19 ■ Primary User Activity Prediction in DSA Networks Using Recurrent Structures.
IPCCC 18 ■ Adaptive Video Encoding and Dynamic Channel Access for Real-time Streaming over SDRs.
GRCon 18 ■ GNURadio Support for Real-time Video Streaming over a DSA Network.
FUZZ IEEE 13 ■ A Fuzzified Approach Towards Global Routing in VLSI Layout Design.

Mentorships

- 07/20 - cur ■ Mentoring 1 postdoctoral fellow, 6 PhD students, and 3 MS students at Next Generation NEtworks and SYStems Lab, Northeastern University, USA.
08/21 - 12/21 ■ Mentored one minority undergraduate student as part of WeSupport Tier 2 mentorship program, Northeastern University, USA.
08/20 - 12/20 ■ Mentored 'NU Huskies' team (ranked **3rd**) in ITU AI/ML in 5G Challenge ['Beam-selection' track], Northeastern University, USA.
01/20 - 06/20 ■ Mentored 3 graduate students from University of Alabama, Huntsville, USA.
01/10 - 04/19 ■ Mentored 2 undergraduate students in L.E.A.R.N Undergraduate Research Program in University of Central Florida.
Summer 18, 19 ■ Mentored 2 graduate summer interns in University of Florida Research and Engineering Education Facility. Shalimar, USA.

Teaching Interests

- Graduate ■ Applied Machine Learning, Advanced Computer Networking, Wireless Communication, Futuristic Networks.
Undergraduate ■ Computer Networks, Communication Systems, Object Oriented Programming, Operating Systems.

References

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