

UJJWAL PAWAR

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EDUCATION

University of Edinburgh, School of Informatics

Ph.D. in Computer Science and Engineering

Edinburgh, UK

Oct, 2022-Present

Indian Institute of Technology, Hyderabad,

Hyderabad India

M.Tech in Computer Science and Engineering(CGPA 9.19/10)

Jan 2019-Dec 2021

Thesis : Traffic-Aware Compute Resource Tuning for Energy Efficient Cloud RANs

University Institute of Technolgy, RGPV

Bhopal, India

Bachelor of Engineering in Computer Science and Engineering (CGPA 7.3/10)

Aug 2014-May 2018

EXPERIENCE

Ph.D Researcher

Oct 2022-Present

Netsys Lab, School of Informatics, University of Edinburgh

Edinburgh, UK

Designing solutions for secure carrier-grade open RAN.

System Specification Engineering

Jan 2022-Sept 2022

Nokia R&D

Bangalore, India

Worked Link Adaptation algorithm to improve VoNR performance

Research Assistant

Jan 2019 - Dec 2021

Indian Institute of Technology, Hyderabad

Hyderabad, India

Developed solutions for building energy-efficient data centers for 5G RAN.

PUBLICATION and DEMO

U. Pawar, AE. Ferguson, T. Wang, MK Marina, "Campus5G: A Campus Scale Private 5G Open RAN Testbed". ACM SIGCOMM Computer Communication Review Volume 55 Issue 3, July 2025 (**Best Demo in Mobicom 25, Best presentation in MobiUK 25**)

U. Pawar, AE. Ferguson, Y. Takano, J. Larrea, X. Foukas, MK. Marina, and B. Radunovic. Towards Scalable and Cost-Effective RAN Emulation Leveraging the Public Cloud. In Proceedings of the 26th International Workshop on Mobile Computing Systems and Applications (HotMobile '25)

C. Sun, **U. Pawar**, M. Khoja, X. Foukas, M. Marina, B. Radunovic, "SpotLight: Accurate, Explainable and Efficient Anomaly Detection for Open RAN " MobiCom '24 (Accepted)

M. Sharma, **U. Pawar**, A. Antony Franklin and B. R. Tamma, "Proactive Clustering of Base Stations in 5G C-RAN using Cellular Traffic Prediction," IEEE 8th International Conference on Network Softwarization (NetSoft), 2022

U. Pawar, B. R. Tamma and F. A. Antony, "Traffic-Aware Compute Resource Tuning for Energy Efficient Cloud RANs," IEEE Global Communications Conference (GLOBECOM), 2021

U. Pawar, A. K. Singh, K. Malde, B. R. Tamma and A. Antony Franklin, "Understanding Energy Consumption of Cloud Radio Access Networks: an Experimental Study," IEEE 3rd 5G World Forum (5GWF), 2020

AWARDS AND SCHOLARSHIP

Best Demo Award

Nov 2025

ACM MOBICOM '25

PhD Studentship

Oct 2022-Aug 2026

School of Informatics, University of Edinburgh

Research Assistant Studentship

Jan 2019-Dec 2021

Dept of Computer Science, Indian Institute of Technology, Hyderabad

LEADERSHIP AND TEAMWORK

Marker, School of Informatics, University of Edinburgh

Marker for Computer Networking Course in 2022,2024 and 2026

Teaching Assistant, Dept. of Computer Science and Engineering, Indian Institute of Technology, Hyderabad

TA for Networked Wireless Systems in 2021, Internet of Things in 2021, Network Security in 2021, SDN in 2020

REFERENCES

Mahesh K. Marina

Professor,University of Edinburgh