IIT Hyderabad
8115528331
ee20resch11012
@iith.ac.in

Rubeena Aafreen

Research Scholar, PMRF

Education

Direct PhD (Communications and Signal Processing), *Indian Institute of Technology*, Hyderabad, Telangana, India. **2020-now**
CPI - 9.3/10.

B. Tech (Electronics and Communications), *ZHCET*, Aligarh Muslim University, Aligarh, U.P., India. **2014-2018**
CPI - 8.95/10.

AISSCE, *12th*, Graduated with 88.8%. **2013**

AISSE, *10th*, Graduated with CGPA 10/10. **2011**

Achievements & Participations

LLMs for wireless course, *Paaru Wireless by Pavithra Nagaraj*, completed an introductory course on LLMs for Wireless by Paaru Wireless. **2024**

Sakura Science Research Exchange, *University of Tokyo, Japan*, visiting researcher at the University of Tokyo for a duration of three weeks. **2023**

Prime Minister Research Fellowship (PMRF), *IIT Hyderabad*, recipient of the most prestigious research fellowship of the country. **2022**

Summer School on ML in 5G, *IIT Kanpur*, Participated in Research school on Python/MATLAB and NYUSIM for Machine Learning (ML) in 5G mmWave technologies, at IIT Kanpur. **2022**

Skills

Matlab, Python, basic knowledge of C.

Projects

Low Complexity Signal Processing Techniques for nextGen Communication Systems, *PhD thesis topic*. **2020-now**

An IoT based system for telemetry and control of Greenhouse environment, *B. Tech thesis topic*. **2018**

Publications

R. Aafreen and M.Z.A. Khan, *"Low-Complexity Detection Using Channel Dimensionality Reduction in 6G Uplink Systems"*, IEEE Vehicular Technology Conference (VTC), June 2024. **2024**

R. Aafreen and M.Z.A. Khan, *"Low complexity CSI feedback technique for FDD massive MIMO systems"*, IEEE Malaysia International Conference on Communication (MICC), December 2023. **2023**

R. Aafreen and M.Z.A. Khan, *"Low Complexity Joint Channel Estimation and Compression for Massive MIMO Systems"*, IEEE Future Networks World Forum (FNWF), November 2023. **2023**

R. Aafreen, S. Y. Neyaz, R. Shamim and M. S. Beg, *"An IoT based system for telemetry and control of Greenhouse environment"*, 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), ALIGARH, India, 2019, pp. 1-6. **2019**

Work Experience

Astt. System Engineer, *Tata Consultancy Services*, website and database management, worked on SQL and Sharepoint. **2018-2019**

Strength

Learner, Hardworking with a never give up attitude.

References

Prof. Mohammed Zafar Ali Khan, *Professor, IIT Hyderabad*, zafar@ee.iith.ac.in.

Dr. Lakshmi Prasad Natrajan, *Associate Professor, IIT Hyderabad*, lakshminatarajan@ee.iith.ac.in.