Rubeena Aafreen

Research Scholar, PMRF

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Education

2020-now **Direct PhD**, *Indian Institute of Technology*, Hyderabad, Telangana, India
CPI - 9.3/10.

2014-2018 **B. Tech**, *ZHCET*, Aligarh Muslim University, Aligarh, U.P., India
CPI - 8.95/10.

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

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

Projects

2020-now Low Complexity Precoding and Decoding for 6G Communication Systems, *PhD thesis topic.*

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

Publications

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

2023 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.

2019 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.

Achievements & Participations

2023 **Sakura Science Research Exchange**: Selected as a visiting researcher at the University of Tokyo for a duration of three weeks.

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

2020 **GATE**: Qualified with 96.37 percentile and score of 551.

References

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