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About

Hello and welcome to my profile! I am Arpit Singh Yadav, a dedicated research scholar from the Indian Institute of Information Technology Guwahati. My current research focuses on the Performance Analysis of Intelligent Reflecting Surface Aided Non-Orthogonal Multiple Access (NOMA) Communication. By exploring the integration of intelligent reflecting surfaces into NOMA systems, I aim to enhance spectral efficiency, coverage, and overall performance of wireless communication networks. Join me on this journey as we delve deeper into the dynamics of next-generation communication technologies!

Career Objective

To work with maximum potential in a challenging and dynamic environment, with an opportunity of working with a diverse group of people and enhancing my professional skills with learning and experience for career growth.

Academic Summary

Year	Education	Institute/School, City	Percentage/CGPA
2020	PhD (Pursuing)	Indian Institute of Information	7.5 CGPA

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Favourite Quote

		Technology, Guwahati	
2017-19	M.Tech, Electronics and Communication Engineering	Madan Mohan Malaviya University of Technology, Gorakhpur	8.91 CGPA
2013	B.Tech, Electronics and Communication Engineering	Kashi Institute Of Technology, Varanasi	71.80%
2009	Senior Secondary School Education	U.P. Board Dr. R. M. L. Inter College, Ghazipur	62.6%
2007	Board of High School and Intermediate Education	U.P. Board Dr. R. M. L. Inter College, Ghazipur	73.33%

Technical Skills and Interests

Area of Interest: Wireless Communication, Photonics Crystal Fiber (PCF)

Programming Languages: C, PHP

Simulation Software: COMSOL Multiphysics, MATLAB

Tools: LabVIEW, Overleaf, Visio

Project/Paper Summary

PhD: Performance Analysis of Intelligent Reflecting Surface Aided NOMA Communication

M.Tech: Design Photonics Crystal Fiber For Medical Application

B.Tech: Academic Project: Hardware project on “Using TV Remote As A Cordless Mouse For The Computer”.

Trainings Attended

2013: One month Training in “PHP on WEB PORTAl ” by Girnar Technologies in KASHI IT, Varanasi.

2014-15: Summer Training of 1 month “C language & PHP”

2018: Short term course from MMMUT Gorakhpur, “Advanced Modeling of Microwave and Photonics Devices”, on 06-12 March, 2018.

2018: National workshop on “Application of Analog and Digital Signal Processing in Modern Scenario” from MMMUT, Gorakhpur.

2021: “Disruptive Wireless Communication Paradigms: The Road Towards 6G” organized by the IIITG.

2022: “SERB Sponsored Next Generation Network Automation For Industrial Internet of Things in Industry 5.0” Organized by IIITG.

2022: “FDP on Machine Learning Application in Signal Processing and Communication Engineering” Organized by MNIT Jaipur, IIITDM Jabalpur, IIT Roorkee, NIT Warangal.

2023: Two Month Internship in SERB Sponsored “Signal Processing For Reconfigurable Intelligent Surface Aided Beyond 5G Communication” organized by IIITG, Assam Guwahati.

List of Publications

International Journal:

1. Arpit Singh Yadav, Vijay Kumar and Dharmendra Kumar. “Highly Birefringence and Flattened Dispersion Photonic Crystal Fiber For Polarization Maintaining” International Journal of Composite and Constituent Material Vol.5 (Published)

International Conferences:

1. Arpit Singh Yadav, Komal Jhanghel. “Performance of IRS-Assisted NOMA Communication with Dynamic IRS Allocation” WCNC-2024 Dubai (Communicated).
2. Arpit Singh Yadav, Aparna Singh, Vijay Kumar and Dharmendra Kumar. “Ultra Flat Dispersion with High Non-Linearty Hexagonal Photonic Crystal Fiber” 5th IEEE CONFERENCE UPCON-2018 MMMUT Gorakhpur (Published).
3. Arpit Singh Yadav, Vijay Kumar, Dharmendra Kumar and Sneha Sharma. “Design Of Hexagonal Photonic Crystal Fiber With High Nonlinearity and Low Confinement Loss For Optical Coherence Tomography Application”

International Conference On Computing, Power and Communication Technologies (GUCON2019) to be held at NCR, New Delhi. (Published)

4. Km. Shweta Chaudhary, Arpit Singh Yadav, Vijay Shanker Chaudhary and Dharmendra Kumar. “Decagonal Chalcogenide Photonic Crystal Fiber for the application of Supercontinuum Generation” 6th IEEE Students' Conference on Engineering & Systems (SCES- 2020), MNNIT Allahabad (Published)

National Conferences:

1. Arpit Singh Yadav, Dharmendra Kumar. “Negative Flattened Dispersion and Low Confinement Loss Hexagonal Photonic Crystal Fiber for Broadband Telecommunication” National Conference On Recent Trends in Electrical, Electronics and Communication Engineering (RTEECE-2019) BIET Jhansi.
2. Arpit Singh Yadav, Vijay Kumar and Dharmendra Kumar. “Highly Birefringence and Flattened Dispersion Photonic Crystal Fiber For Polarization Maintaining” National Conference on Recent Trends in Devices, Circuit and Communication (RTDC-2019) MMMUT, Gorakhpur.

Awards and Distinctions

1. I am a Gold Medalist in Communication Engineering, specializing in M.Tech from MMMUT, Gorakhpur.

2. Won First prize in MALAVIYA EXCELLENT STUDENT AWARD in M.TECH 1st year MMMUT, Gorakhpur.

3. Won First prize in KHO-KHO, in National Level Sports Meet Shambhunath Group of Institutions, Allahabad.

4. Won Second prize in Volley Ball, Annual Sports Meet held in Kashi IT, Varanasi.

5. Won First prize in CRICKET, Annual Sports Meet held in Kashi IT, Varanasi.

Software Release

This section lists software releases.

Books

This section lists books authored or co-authored.

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I hereby declare that all the particulars mentioned above are true to the best of my knowledge and understanding.

Date: 19/12/2023

Place: Guwahati (Arpit Singh Yadav).