DR. AMAN SIKRI

Email ID: amansikri@iitism.ac.in

EDUCATION

Indian Institute of Technology (BHU), Varanasi, India — July 2015- December 2019
Ph.D. (Wireless Communications and Signal Processing) — Overall CGPA: 9/10

Indian Institute of Technology (BHU), Varanasi, India — July 2010- May 2012
M.Tech. (Communication Systems Engineering) — Overall CGPA: 8.93/10

Guru Nanak Dev University, Amritsar, India — July 2005- May 2009
B.Tech. (Electronics and Communications Engineering) — Overall Percentage: 75 %

Higher Secondary Certificate (HSC) — May 2004-2005
Overall Percentage: 80%

Secondary School Certificate (SSC) — May 2002-2003
Overall Percentage: 84%

EXPERIENCE

Assistant Professor at IIT-Dhanbad, India (Level -12) — March 20, 2024- Till date

Assistant Professor at IIT-Dhanbad, India (Level -11) — Sept. 19, 2023- March 19, 2024

Postdoctoral Fellow at ETS, Montreal, Canada — November 2022- August 2023

National Postdoctoral Fellow at IIT Jodhpur, India — February 2022- October 2022

Research Associate at IIT Delhi, India — February 2020- December 2021

Assistant Professor at NIT, Jalandhar, India — August 2012- December 2013

SKILLS

Software and Tools — MATLAB, LaTeX, Mathematica

INTERNATIONAL JOURNAL PUBLICATIONS

1. **Aman Sikri**, B. Selim, G. Kaddoum, M. Au and B. L. Agba, "RIS-Aided Wireless Sensor Network in the Presence of Impulsive Noise and Interferers for Smart-Grid Communications," ***IEEE Communications Letters***, doi: 10.1109/LCOMM.2023.3299510.
2. **Aman Sikri**, A. Mathur and G. Kaddoum, "Joint impact of phase error, transceiver hardware impairments, and mobile interferers on RIS-Aided wireless system over κ-μ fading channels," ***IEEE Communications Letters***, vol. 26, no. 10, pp. 2312-2316, Oct. 2022
3. **Aman Sikri**, A. Mathur, and G. Kaddoum, "Signal space diversity-based distributed RIS-aided dual-hop mixed RF-FSO systems," ***IEEE Communications Letters***, vol. 26, no. 5, pp. 1066-1070, May 2022.

4. **Aman Sikri**, A. Mathur, P. Saxena, M. R. Bhatnagar, and G. Kaddoum,"Reconfigurable intelligent surface for mixed FSO-RF systems with co-channel interference," ***IEEE Communications Letters***, vol. 25, no. 5, pp. 1605-1609, May 2021.

5. **Aman Sikri**, A. Mathur, P. Saxena, M. R. Bhatnagar, and G. Kaddoum,"Artifical noise injection-based secrecy improvement for FSO systems," ***IEEE Photonics Journal***, vol. 13, no. 2, pp. 1-12, Apr. 2021.

6. **Aman Sikri**, Aashish mathur, and K. V. Srinivas,"Performance Analysis of cooperative powerline communication with signal space diversity," ***Transactions on Emerging Telecommunications Technologies*** 2020; 31:e3845.

7. **Aman Sikri**, A. Mathur, and K. V. Srinivas,"Performance analysis of coordinate interleaved PLC system with Rayleigh channel gain under Nakagami-m additive noise,"***IET Communications***, vol. 13, no. 7, pp. 857-862, Apr. 2019.

8. **Aman Sikri** and K. V. Srinivas,"Performance analysis of signal space diversity based cooperative relaying over α-κ-μ fading channels," ***Transactions on Emerging Telecommunications Technologies*** 2019; 30:e3717.

INTERNATIONAL CONFERENCE PUBLICATIONS

1. **Aman Sikri**, G. Kaddoum, B. Selim, Basile L. Agba, and Minh Au, "RIS-aided wireless sensor network in presence of bursty impulsive noise for smart-grid communications," ***IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)***, Toronto, Canada, 2023, pp. 1-5.

2. **Aman Sikri** and A. Mathur, "Secrecy performance of RIS-aided wireless systems in the presence of mobile interferers and eavesdropper mobility," ***2022 IEEE 96th Vehicular Technology Conference (VTC2022-Fall)***, London, United Kingdom, 2022, pp. 1-5.

3. **Aman Sikri**, A. Mathur and G. Kaddoum, "Performance of RIS-aided wireless systems in the presence of mobile interferers," ***2022 IEEE 33rd Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)***, Kyoto, Japan, 2022, pp. 427-431.

4. **Aman Sikri**, A. Mathur, G. D. Verma, and G. Kaddoum, "Distributed RIS-based dual-hop mixed FSO-RF systems with RIS-aided jammer".***2021 IEEE 94th Vehicular Technology Conference (VTC2021-Fall),2021, pp. 1-5***.

5. **Aman Sikri**, A. Mathur, and G. D. Verma, "Secrecy performance enhancement of artificial noise injection scheme-based FSO systems".***2021 IEEE 94th Vehicular Technology Conference (VTC2021-Fall), 2021, pp. 01-05.***

6. **Aman Sikri** and K. V. Srinivas,"Two-stage linear precoding for generalized frequency division multiplexing for improved performance,"***2018 21st International Symposium on Wireless Personal Multimedia Communications (WPMC), 2018, pp. 507-511.***

7. **Aman Sikri** and K. V. Srinivas,"Precoding for generalized frequency division multiplexing with linear receivers," ***2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), 2017, pp. 1-5***.

AWARDED POSTDOCTORAL RESEARCH POSITIONS

- Research Associate at IIT Delhi (2020-2021)
- National Postdoctoral Fellowship at IIT Jodhpur (2022-2024)
- Postdoctoral Research Fellowship at NTU Singapore (2023-2025)
- Postdoctoral Research Fellowship at ETS, Montreal, Canada (2022-2024)

RELEVANT SUBJECTS

- Machine Learning
- Wireless Communications
- Digital Communications
- Probability Theory
- Multiple-Input Multiple-Output (MIMO)
- Orthogonal Frequency Division Multiplexing (OFDM)