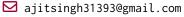
# **Ajit Kumar Singh** Ph.D. Candidate, Dept. of ECE, IIIT Ranchi



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# Education

2019 – till date	<b>Ph.D., Indian Institute of Information Technology, Ranchi, Jharkhand</b> Thesis title: Design, and Analysis of Wideband MIMO Antenna System for Wireless Applications
2017 - 2019	M.Tech, Electronics and Communication, J C Bose University of Science and Technology, Faridabad, Haryana Thesis title: Design of Graphene based patch antenna for 5G MIMO system.
2011 – 2015	<b>B.Tech, Electronics and Communication, Dr. A.P.J Abdul Kalam Technical</b> <b>University, Lucknow, Uttar Pradesh</b> Project title: <i>Bluetooth based home automation</i> <i>system.</i>

### **Research Publications**

#### **Journal Articles**

- **Singh, A. K.**, Mahto, S. K., Kumar, P., Mistri, R. K., & Sinha, R. (2022). Reconfigurable circular patch mimo antenna for 5g (sub-6ghz) and wlan applications. *International Journal of Communication Systems*.
- **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022b). A compact quad element mimo antenna for lte/5g (sub-6 ghz) applications. *Frequenz*.
- **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022d). Quad element mimo antenna for lte/5g (sub-6 ghz) applications. *Journal of Electromagnetic Waves and Applications*, 1–16.
- **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022e). Reconfigurable dual element dual band mimo antenna for 5g (sub-6 ghz) and wlan applications. *COMPEL-The international journal for computation and mathematics in electrical and electronic engineering*, (ahead-of-print).
- Singh, A. K., Mahto, S. K., & Sinha, R. (2021a). A miniaturized mimo antenna for c, x, and ku band applications. *Progress In Electromagnetics Research C*, *117*, 31–40.
- Singh, A. K., Mahto, S. K., & Sinha, R. (2021b). Compact super-wideband mimo antenna with improved isolation for wireless communications. *Frequenz*, *75*(9-10), 407–417.

#### **Conference Proceedings**

- **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022a). Dual element mimo antenna with improved radiation efficiency for 5g millimeter-wave applications. IEEE.
- Singh, A. K., & Kaur, P. (2019). Design of graphene based antenna for 5g mimo system. IEEE.

#### **Book Chapters**

**Singh, A. K.**, Mahto, S. K., & Kumar, R., Pand Sinha. (2022). High efficiency hexagonal shaped quad element mimo antenna for terahertz applications. In *Terahertz devices, circuits and systems - materials, methods and applications* (Accepted). Springer Nature Singapore.

**Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022c). Dual-element cpw-fed mimo antenna for ism band application. In *International conference on computational techniques and applications* (pp. 245–252). Springer.

#### Skills

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Languages	📕 English, Hindi.
Coding	Matlab, Python, C
Soft tools	HFSS, ADS, Mathematica.
Misc.	Academic research, teaching, Large TEX typesetting and publishing.

### **Miscellaneous Experience**

Awards and Achievements				
2017,2019		GATE Fellowship, During M.Tech & Ph.D. program.		
2019,2021		UGC-NET Qualified		
2010		<b>Chemistry olympiad</b> , Issued by Indian association of physics teachers, Mar 2010.		
Certification				
2018,2020,2020		SIX SIGMA, Antenna, Digital Electronic Circuit. Awarded by NPTEL.		
Industrial Training				
2013-14		<b>Passive Infrastructure in Telecommunication (4 weeks)</b> . VIOM Networks, Noida.		
2012-13		Embedded and Robotics Level-I (4 weeks). Appin Technology Lab Noida.		
<b>Professional Affiliation</b>				
IEEE Student Member				
IEEE APS Member				

### **Personal Information**

Date of Birth: 31 March 1993 Father's Name: Shri Om Prakash Singh Address for correspondence Ajit Kumar Singh Research Scholar Dept. of Electronics & Communication Engg. Indian Institute of Information Technology Ranchi, aksingh.rs@iiitranchi.ac.in Mobile No.: +91-7838719012

### References

Indian Institute of Information Technology Ranchi, skumar@iiitranchi.ac.in **Dr. Rashmi Sinha,** Associate Professor Dept. of Electronics and Communication Engineering National Institute of Technology Jamshedpur rsinha.ece@nitjsr.ac.in

## **Declaration**

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