

# ABDULLAH MADNI

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## SUMMARY

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I am an electrical engineer, a curious researcher and an antenna designer. I have a passion for learning and teaching. I have good communication skills to explain my research and conduct high-quality teaching.

## EDUCATION

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Ph.D.	<b>Lahore University of Management Sciences (LUMS), Lahore, Pakistan</b> Electrical Engineering	2019 - present
M.S	<b>Information Technology University of the Punjab (ITU), Lahore, Pakistan</b> Electrical Engineering	2016 - 2018
B.S	<b>Ghulam Ishaq Khan Institute of Engineering Sciences &amp; Technology (GIKI), KPK, Pakistan</b> Electronic Engineering	2011 - 2015
F.Sc	<b>Government College University (GCU), Lahore</b> Pre-Engineering	2009 - 2011
Matric	<b>Lahore Grammar School, Lahore</b> Science	2007 - 2009

## RESEARCH PUBLICATIONS

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### *Journal Publications*

1. **A. Madni** and W. T. Khan, "Design of a Compact 4-Element GNSS Antenna Array with High Isolation using a Defected Ground Structure (DGS) and a Microwave Absorber," *IEEE Open J. Antennas Propag.*, vol. 4, pp. 779-791, 2023. **(Impact Factor: 4)**

2. **A. Madni**, M. R. Akram, K. Riaz, H. U. Rahman, M. U. Rehman, Khan, W. T. Khan, & M. Q. Mehmood, "A compact high isolation wideband MIMO antenna for multi-band applications," *Journal of Electromagnetic Waves and Applications*, vol. 36, no. 14, pp. 2041-2054, 2022. (**Impact Factor: 1.438**)
3. T. Ahmad, A. A. Rahim, R. M. H. Bilal, A. Noor, H. Maab, M. A. Naveed, **A. Madni**, M. M. Ali, and M. A. Saeed, "Ultrawideband Cross-Polarization Converter Using Anisotropic Reflective Metasurface." *Electronics*, vol. 11, no. 3, p. 487, 2022. (**Impact Factor: 2.9**)
4. M. Awais, **A. Madni** and W. T. Khan, "Design of a Compact High Isolation 4-Element Wideband Patch Antenna Array for GNSS Applications," *IEEE Access*, vol. 10, pp. 13780-13786, 2022. (**Impact Factor: 3.476**)

### **Conference Publications**

1. **A. Madni**, and W. T. Khan, "Design of a High Isolation 60 GHz MIMO Antenna Using a Defected Ground Structure," in *Proc. 2023 IEEE Int. Symp. Antennas Propag. USNC-URSI Radio Sci. Meeting (USNC-URSI)*, Portland, OR, USA, pp. 1049-1050, 2023.
2. **A. Madni**, S. Zakir, R. M. H. Bilal and W. T. Khan, "A Compact Inkjet-Printed Wideband Antenna for X/Ku/K/Ka-band and 5G Applications ," in *Proc. 2022 IEEE Int. Symp. Antennas Propag. USNC-URSI Radio Sci. Meeting (AP-S/URSI)*, Denver, CO, USA, pp. 721-722, 2022.
3. **A. Madni**, R. M. H. Bilal and W. T. Khan, "A Compact Metamaterial based High Isolation MIMO Antenna for 5.8 GHz WLAN Applications ," in *Proc. 2022 IEEE Int. Symp. Antennas Propag. USNC-URSI Radio Sci. Meeting (AP-S/URSI)*, Denver, CO, USA, pp. 245-246, 2022.
4. S. Zakir, **A. Madni**, R. M. H. Bilal, Y. Massoud, "Highly efficient broadband anisotropic metasurface for cross polarization conversion operating in the terahertz band," *Proc. SPIE , Nanophotonics, Micro/Nano Optics, and Plasmonics VIII*, vol. 12322, pp. 1232206, 2022.
5. **A. Madni**, S. Zakir, M. Awais and W. T. Khan, "Design of a Compact Inkjet-Printed Wideband (4.89- 18 GHz) Antenna on a flexible PET Substrate," in *Proc. 2021 IEEE Int. Symp. Antennas Propag. USNC-URSI Radio Sci. Meeting (APS/URSI)*, Singapore, pp. 281-282, 2021.

## **WORK EXPERIENCE**

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**Graduate Fellow      Information Technology University , Lahore      2017-2018**

I was offered a graduate fellowship at the department of electrical engineering and worked as research associate and a teaching assistant with Dr. Muhammad Qasim Mehmood. I worked at the ITU Micro Nano Lab in the field of RF, Microwave and Antenna Engineering.

**Lab Engineer      University of Central Punjab (UCP), Lahore      2015-2017**

I worked as a lab engineer at the department of electrical engineering teaching the labs of various undergraduate courses such as digital logic design, electronic circuit design, electronic devices and circuits and applied electricity and electronics.

## **RESEARCH INTERESTS**

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Microstrip patch antennas, MIMO configurations, isolation enhancement in MIMO antennas, designing antennas for satellite communication and GNSS systems, antennas for 5G systems and flexible antennas using inkjet printing technology.

## **REFERENCES**

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Available on Request.