

Hammad Rasheed



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Bucharest, Romania

Born 12 July 1997, Gujranwala, Pakistan.

Employment & Education

- Oct 2024–Present **Postdoctoral Research Assistant, IFIN-HH, Romania**
- Sep 2021–Oct 2024 **Ph.D in Physics, University of Bucharest, Romania**
- Feb 2021–Sep 2021 **Applied Physics Lecturer, University of the Punjab, Lahore, Pakistan**
- Oct 2019–Dec 2020 **Hosted Researcher, National Centre for Physics (NCP), Pakistan**
 - 2018–2021 **M.Phil in High Energy Physics, University of the Punjab, Lahore, Pakistan**
 - 2016–2018 **Master in Computational Physics, University of the Punjab, Lahore, Pakistan**

Research Activities

I began in particle physics with the **CMS** experiment at NCP, working on a multi-lepton tZq analysis and using BDTs to improve signal–background separation. I then moved to **ATLAS** at IFIN-HH, completing my Qualification Task in the Combined Performance **EGamma** group by contributing to the Tag-and-Probe framework and measuring electron reconstruction efficiencies for full Run 2 and early Run 3 data. Since 2023, I have been in the **CP Tracking** group, focusing on fake- and lost-track measurements in dense environments. During my PhD, I led reinterpretation studies assessing Run 2 SUSY sensitivity via pMSSM and extending gluino limits through monojet reinterpretations, both as the **main analyst**. I am currently a Postdoctoral Research Assistant at IFIN-HH, contributing to ATLAS Physics Validation (**PHYSVAL**) group through the Software Development Grant 2025 and developing a BDT-based MVA for the Run 3 $H \rightarrow Za \rightarrow \ell\ell\gamma\gamma$ (ALP a) analysis.