

**Mariano Pentella** was born in Avellino, Italy, in 1994. He received a Master's degree in Electrical Engineering from the University of Naples, "Federico II" in 2018 and a Ph.D. degree in Metrology from the Polytechnic University of Turin in 2022, both *cum laude*. In December 2017, he joined the "Magnets, Superconductors, and Cryostats" Group at European Organization for Nuclear Research (CERN) in the "Test and Measurements" Section, initially as a Trainee, then as a Ph.D. student in January 2019, and finally as a Senior Fellow in July 2022. His research activities include the magnetic characterization of materials for different CERN projects and experiments, the development of novel material characterization techniques, and their metrological characterization. More recent activities also include the development of magnetic sensors for particle accelerator magnets, neural networks for hysteresis modeling in iron-dominated magnets, and magnetic measurements of normal-conducting and superconducting magnets. He co-authored 12 scientific articles published in peer-reviewed journals and conference proceedings.

