

## CV — Luca Persichetti

Luca Persichetti (b. 19 October 1985) is Associate Professor of Experimental Condensed Matter Physics at the Department of Physics, University of Roma "Tor Vergata" (SSD PHYS-03/A). He holds the Italian National Scientific Habilitation (ASN) for Full Professorship (I Fascia) and Associate Professorship (II Fascia) in sector 02/B1 and is affiliated with the INFN Roma 2 Section.

He obtained the M.Sc. in Materials Science and Technology (110/110 cum laude, 2009) and the PhD in Physics (2012) at Roma Tor Vergata. He was Marie Skłodowska-Curie COFUND Postdoctoral Fellow and Research Assistant at ETH Zurich in the Magnetism and Interface Physics group of Prof. P. Gambardella (2013–2018), then Assistant Professor at Roma Tre (RTDa, 2018–2022) and at Roma Tor Vergata (RTDb, 2022–2025).

His research focuses on the electronic and magnetic properties of low-dimensional materials, investigated by low-temperature scanning probe microscopy (STM/STS, qPlus AFM, atomic manipulation), synchrotron-based X-ray magnetic dichroism (XMCD/XMLD) on rare-earth single atoms with sum-rule analysis, and chemical-vapour-deposition synthesis of graphene and 2D Dirac materials on semiconductor substrates.

He has authored 90+ peer-reviewed publications (Scopus h-index 18, Google Scholar h-index 22, 1,764 total citations), about 30 as first or corresponding author, including contributions to Science, Phys. Rev. Letters, Nano Letters, ACS Nano, Phys. Rev. Research and Phys. Rev. B.

He has been PI of the Marie Curie COFUND fellowship (CHF 219,300) and the LIFEPLASTSENS Lazio Region grant (€149,625), and Unit Coordinator of the PRIN 2022 PNRR project SPIGA on spin-resistance effects in topological insulator/semiconductor heterostructures. He has performed about 30 beamtime experiments (9 as Main Proposer) at ESRF, ALBA, Diamond, SLS, Elettra, SOLEIL and BESSY-II. Awards include the 2022 IAAM Scientist Award in Quantum Science & Technology and the 2024 IAAM Scientist Medal.