

Francesca Telesio got her PhD in Physics in 2015 from University of Genova with a thesis on thermoelectric and spin transport properties at the LaAlO<sub>3</sub>/SrTiO<sub>3</sub> interface.

At the beginning of 2016, she moved to NEST Laboratory – CNR Nanoscience Institute (NANO) and Scuola Normale Superiore, to join the group of Dr. Stefan Heun as a post-doc for the ERC Advanced project PHOSFUN on phosphorene functionalization. There, her activity is focused on device fabrication with exfoliated black phosphorus (bP), and their measurement by low temperature magnetotransport, also thanks to the collaboration with Mc Gill University in Montreal, Canada. From the beginning of 2017 she is principal investigator of a CNR-NANO SEED project on Scanning Tunnelling Microscopy on exfoliated bP. Moreover, in collaboration with CNR- Institute of Chemistry of Organometallic Compound (ICCOM), leading institution of the PHOSFUN project, she studies liquid phase exfoliated material, chemically functionalized with metallic nanoparticles.