Marco Potenza – short CV

Academic	- Since 2019: Associate Professor - Since 2002 Researcher - 8/7/1996: Laurea in Physics, Università degli studi di Milano – 110/110 cum laude - 8/1/2000: PhD in Physics, Università degli studi di Milano
Research activity	**Since 2020: Head of the Instrumental Optics Laboratory – Physics Depatment** 88 international pubs, >1300 citations, h-index 20, i10index 44 (Google Scholar) Main research items: • Single Particle Extinction and Scattering: I developed and patented a novel scattering technique to study micrometric and submicrometric particles. Applications have been in nanotechnology, nanomedicine, atmospheric physics, paleclimate and industrial metrology. • X-rays wavefront characterization at synchrotrons and FELs. I developed several techniques for measuring spatial and temporal coherence of wavefronts emitted by ultrarelativistic electrons. Applications to characterize electron beams are on going. Collaborations with ESRF, DESY, ELETTRA, LNF, ALBA, CERN. • Instrumentation for research in microgravity - 2008-18: Instrument Scientist for the experiment COLLOID (ESA) - Development of an instrument installed aboard the Space Station (COLLOID). - Realization of several optical demonstrators for ESA • Development of innovative instrumentation in collaboration with and in charge of national and international research entities
Funded projects	**Funding in the last 10 years with my research projects: about 1.4 M€** Main projects and contracts I am responsible of: • since 2018: CERN funding for electron beams diagnostics • since 2017: OPTAIR, funded by PNRA for installing an instrument at DomeC • 2016-2019: GAIA, FSE funding through Regione Autonoma Valle d'Aosta • 2012-2014: Project FIRB-Futuro in ricerca: development of diagnostics of X-rays emitted by wavefield plasma acceleration • 2009-12: IMPROVE, EU project FP7: realization of a diagnostic device for semiconductor industry • 2014-2017: Service contracts for developing optical instrumentation for RSE • Since 2004: Service contracts for developing optical instrumentation for Space
Technology transfer	More than 15 years experience in technology transfer, with collaborations in developing novel technologies in metrology. In particular: • 10 industrial patents • 2014: funding member of the start-up EOS srl, for the realization of SPES technology in nanoechnology and nanomedicine. • 2018: A joint patent with RSE started a collaboration with Prysmian
Teaching and formation	• Since 2009 – Optics Laboratory for the III year in the batchelor degree in physics • 2007-: Optics Laboratory for the II year in the master degree in physics • 2007-2015: Electromagnetism for batchelor degree in geology • 2003-2007 – Fundamental physics Laboratory for the batchelor degree in physics • Responsible of 10 post-doc fellowships (12.5 years) • Tutor of 18 PhD thesis, 2 funded with external money and 1 from Progetto Giovani • Tutor of more than 50 laurea thesis
Professional activities	2008 e 2015: Member of the committee for the selection of PhD students in Physics Member of committees for researcher, technician, post-doc, PhD selections Editor of Scientific Reports Referee for Nature, APS, OSA, IOP, SIF and many international reviews Funding member of the Italian Aerosol Society Member of Società Italiana di Fisica
Managing activities	Since 2010 Member of the executive committee of the Physics Department Since 2019 Member of the executive committee of CIMAINA (vice-dean)
Third Mission	Since 1997 lecturer at the Planetarium