

Openings for PhD and Postdoc positions in *Vectorial Nano-Imaging* group

- **Location:** Center for Nanoscience and Technology-IIT, Milan (Italy)
- **Posting Date:** January 15, 2020
- **Application Deadline:** Open until positions are filled

Open call

We have recently moved our research activity from Harvard University and started a new group at the Istituto Italiano di Tecnologia in Milan. We have openings for several fully-funded PhD and Postdoc positions to work on a variety of topics, from structured light to near-field microscopy and robotics.

Group Description

Our research group is focused on creating structured light with complex optical field patterns, in a broad wavelength range, by means of optical metasurfaces. Metasurfaces use optically thin arrays of optical scatterers, such as nano-antennas, with sub-wavelength sizes and separations to obtain a spatially varying optical response, which moulds optical wavefronts at will. Each nano-element of a metasurface can impart a specific polarization state to the transmitted light, allowing to realize intensity patterns with inhomogeneous distributions of polarization directions. The group also develops state-of-the-art Optical Scanning Probe Microscopes capable of imaging such complex optical fields with three-dimensional nanometric resolution, as well as near-field imaging and spectroscopy of 2D materials, polymers and nanostructured surfaces.

Group webpage: www.iit.it/research/lines/vectorial-nano-imaging

How to apply?

Please email your CV and brief motivation letter to Dr. A. Ambrosio (antonio.ambrosio@iit.it) and Dr. M. Piccardo (marco.piccardo@iit.it)

External fundings

- ERC Consolidator Grant, PE8, ERC-2018-COG, METAmorphoses, *Shapeshifting Metasurfaces for Chemically Selective Augmented Reality*
- Fondazione Cariplo

