

Daniele Cortinovis



Born in Bergamo (Italy) on 19/03/1987

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Research experience

9/2015 – present

Marie Curie Fellow

(Early Stage Researcher, REVAMMAD MC-Net)
Orobix s.r.l, Bergamo, Italy

6/2012 – 8/2015

Marie Curie Fellow

(Early Stage Researcher, PicoSEC MC-Net)
Deutsches Elektronen-Synchrotron (DESY), Hamburg, Germany
R&D for a novel multimodal medical imaging tool (EndoTOFPET-US project).

5/2011 – 3/2012

Internship (Master thesis)

STFC – Rutherford Appleton Laboratory, Harwell Oxford, UK
Development of simulations and tests of collimators for a new neutron scattering instrument (IMAT).

Academic degrees

2012 – present

PhD candidate at Hamburg University

2009 – 2012

Master in Physics Grade: 110/110 *cum laude*

University of Milano-Bicocca

Thesis: *“Collimation of thermal neutrons for diffraction Experiments”*

2006 – 2009

Bachelor’s in Physics Grade: 101/110

University of Milano-Bicocca

Thesis: *“A new approach to the control system of the CMS Pixel Detector configurations”*

Other education

2012 – 2015	Multidisciplinary training (electronics, computing, medical imaging, soft skills) provided by the PicoSEC MC-Net
July 2014	“Data and models in engineering, science and business” <i>Massachusetts Institute of Technology (MIT), Cambridge (USA)</i>
Nov-Dec 2014	“Tackling the challenge of big data”, <i>MIT online course</i>

Computing knowledge

Intermediate: C, C++, Python

Basic: MySQL, MATLAB, JavaScript, HTML, LaTeX

Operative systems: Linux Ubuntu, Windows

Others: Familiar with software libraries for data analysis (*ROOT CERN*) and Monte Carlo simulations (*GEANT4*) widely used in particle physics

European Computer driving licence (ECDL) obtained in 2004

Language

Italian: native speaker

English: fluent

German: basic knowledge

Personal interests

Travelling, sports (soccer, swimming, biking, hiking, skiing), science and technology, economics

Publications

Scientific journals

Daniele Cortinovis et al., “*Characterization studies of Silicon Photomultipliers and crystals matrices for a novel time of flight PET detector*” (submitted to Journal of instrumentation)

Conference talks

Daniele Cortinovis et al., “*EndoTOFPET-US: an endoscopic Positron Emission Tomography detector for a novel multimodal medical imaging tool*”, 53rd international winter meeting on Nuclear Physics; Bormio 26-30 January 2015.

Daniele Cortinovis et al., “*Highly granular Positron Emission Tomography detector for a novel multimodal medical imaging tool*”, International workshop on radiation imaging detectors (iWoRID); Trieste, 23-26 June 2014.

Daniele Cortinovis et al., “*Quality assurance and integration of a new Positron Emission Tomography detector*”, DPG spring meeting 2014; Mainz, 24-28 March 2014.

Daniele Cortinovis et al., “Quality assurance setup for a new Positron Emission Tomography detector”, DPG Spring Meeting 2013; Dresden, 4-8 March 2013.

Conference proceedings

Z. Liu, K. Doroud, E. Auffray, F. Ben Mimoun Bel Hadj, D. Cortinovis, , E. Garutti, P.Lecoq, R. Martinez, M. Paganoni, M. Pizzichemi, A. Silenzi, C. Xu and M. Zvolský, “Quality control of the TSV multi-pixel photon counter arrays, and modules for the external plate of EndoTOF-PET ultrasound detector”, NIM A 12/2014 DOI: 10.1016/j.nima.2014.12.040

Co-author of 9 conference proceedings of the EndoTOFPET-US collaboration