

# Curriculum Vitae

## Personal data

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## Experience

Current position (2007-now) Senior researcher at INFN, sezione Roma Tre  
Address of current affiliation via della Vasca Navale 84, 00146 Roma, Italy.

Previous positions:  
May 1998-December 2006 Researcher at INFN sezione Roma Tre.  
November 1993-april 1998 Researcher at INFN sezione Sanità.

## Education

1989 Degree in Physics at University "La Sapienza" in Rome, with a thesis about the DELPHI electromagnetic calorimeter construction and calibration.  
1993 PhD in Physics at University "La Sapienza" in Rome. Thesis "Inclusive measurement of the Forward-Backward Asymmetry in  $e^+e^- \rightarrow b$  anti- $b$  events at the DELPHI experiment al LEP", supervised by prof. Giorgio Matthiae and dr.. Antonio Baroncelli.

## MSCA projects

2015-now Coordinator of the RISE project JENNIFER, Grant Agreement n.644294  
<http://www.jennifer-project.eu/>  
2018 Coordinator of the RISE proposal JENNIFER2, selected for funding, Grant Agreement n.822070

## Research Activity

<i>DELPHI experiment</i>	Construction, calibration and operation of the HPC calorimeter. Single photon trigger. Measurement of the
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1988-2001	Z decay branching fraction into b anti-b quarks and of the forward-backward asymmetry of this decay. Search for the Higgs boson in 4 jets channel. Measurement of the 4 leptons SM cross section.
<i>KLOE and KLOE-2 experiment</i> 1991-now	Design, construction, operation and calibration of the Pb-Scifi calorimeter, its front-end electronics and its data acquisition system. Measurement of the $K_L$ regeneration rate and lifetime. Run coordination of the experiment. Search for low mass resonances in 2 neutral pion final states. Measurement of the semileptonic decay rate of the $K_s$ . KLOE2 detector setup, calorimeter refurbishing, run coordination. Measurement of the neutron detection efficiency. Test of high granularity readout for Pb-Scifi calorimeter.
<i>ATLAS experiment</i> 2002-2010	Construction, test and quality assurance of the MDT chambers for muon detection. Measurement of their radiation tolerance under neutron and gamma irradiation.
<i>Progetto SuperB</i> 2011-2013	Test of a track trigger. Test of drift chamber prototype.
<i>Belle-II experiment</i> 2014-now	R&D for the upgrade of the CsI crystal calorimeter. Measurement of single beam backgrounds during first accelerator run. Test and installation of the KLM detector front end electronics. Preparation of data analysis for the search for dark photon signals.
<i>JENNIFER project</i> 2015-now	Coordination of the MSCA RISE project JENNIFER: "Japan and Europe Network for Neutrino and Intensity Frontier Experimental Research". Funded with 2.3 M€ to support the mobility of researchers to Japan, to work in Belle II, T2K and HyperK experiments. The project includes 14 european institutions and 2 japanese partner. Besides physics, implements a wide outreach program and aims to foster the collaboration with the private sector.
JENNIFER2 project 2018-	New JENNIFER2 project, selected for funding in the 2018 MSCA RISE call. The project involves 16 european institutions and 2 japanese partners and will start in april 2019. It includes not only the Belle II, T2K and HyperK experimental activity, but also synergic research programs on photodetectors, computing, data acquisition techniques, statistical methods. Outreach and training have always a key role.
<i>Scientific coordination</i>	<ul style="list-style-type: none"> <li>- Co-responsible for DELPHI single photon trigger (1990-2000)</li> <li>- Convenor of the inclusive b anti-b forward-backward asymmetry measurement in DELPHI (1992-1995)</li> <li>- Energy flow reference for the Higgs in 4 jets analysis group in DELPHI (1996-1999)</li> <li>- Coordination of the KLOE calibration working group (2000-2001)</li> <li>- Coordinator of the KLOE (2001-2002) and KLOE-2 (2008-2018) calorimeter.</li> <li>- Run-coordinator in KLOE and KLO-2 for several periods.</li> <li>- Group leader of the Roma Tre KLOE and KLOE-2 groups (2005-2017)</li> <li>- Member of the KLOE-2 'Institute board (2008-2017)</li> <li>- Member of the KLOE-2 Policy Board (2015-now)</li> <li>- <b>JENNIFER</b> project scientific coordination (2015-now)</li> <li>- <b>JENNIFER2</b> project scientific coordination (2018-)</li> </ul>
<i>Conference talks</i>	17 presentations to international conferences and workshops
<i>Publications</i>	co-authorship of more than 400 papers published on international journals. h-index 82 (SCOPUS)

<b>Scientific Management</b>	<p>Member of the Beam Test Facility Committee at LNF (2008-2012).</p> <p>KLOE and KLOE2 local group leader at Roma Tre (2005-2017).</p> <p>Roma Tre Coordinator of the subnuclear research activities with accelerators and member of the National Committee 1 of the INFN (2011-2014)</p> <p>INFN Referee of the ATLAS e CMS italian groups (2011-2014)</p> <p>EU research funding reference person for the INFN National Committee 1 (2013-2014)</p>
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	<p>Evaluator of the FIRB 2013 call of the Italian Research Ministry.</p> <p>Chair of the organization committee of the LEPTRE workshop (april 18-20 2001) and Proceedings co-editor.</p> <p>Chair of the organization committee of the ATLAS Physics Workshop 2005, Roma Tre june 6-11 2005</p> <p>Yearly organization of the Roma Tre Topical Workshop on Subnuclear Physics (1998 al 2011).</p>
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<b>Institutional roles</b>	<p>Local representative of the researchers at Roma Tre (1998-2004)</p> <p>Local reference for INFN training activities (1999-2011)</p> <p>Organizers of the local INFN seminar program in Roma Tre (1998 – 2011)</p> <p>Member of the INFN national committee for EU research funding (2004-2012)</p> <p>National Representative of the INFN researchers inside the Director Council 27-7-2015 on</p>
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<b>Communication activity</b>	<p>Co-organizer of the Masterclasses in Particle Physics at Roma Tre University.</p> <p>Proposer and first organizer of Masterclasses with Belle data.</p> <p>Organizer of JENNIFER outreach program. In particular public events and 2 summer schools for physics university students..</p> <p>Member of the Belle II outreach group..</p> <p>Collaboration to local outreach events (researcher's night, open labs)</p>
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<b>Teaching</b>	<p>Tutorship in electronics laboratory and nuclear physics laboratory (1994-2004).</p> <p>Co-supervisor of few degree and PhD thesis in the framework of KLOE and KLOE2 experiment.</p> <p>Lectures of experimental flavour physics for the PhD school at Roma Tre (2013-now)..</p>
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