Appointments

1994-2005 Researcher of the INFN at the National Laboratories in Frascati

2005-2017 Associate Professor of Astronomy and Astrophysics at the University of Rome Tor Vergata

2017- Full Professor of Physics at the University of Rome Tor Vergata

2007- Research Associate, Istituto Nazionale di Fisica Nucleare

Main Scientific Responsibilities

1997-2006 Coordinator of the Gravitational Wave (GW) Nautilus experiment at the INFN Frascati National Laboratories

2004-2006 Local coordinator of the ROG (Ricerca Onde Gravitazionali – Gravitational Wave research) group at INFN Frascati National Laboratories

2006- Team leader of the Virgo Tor Vergata group and member of the Virgo Steering Committee

2008-2010 Coordinator of the University of Tor Vergata research unit for the project "*Studio di problematiche sperimentali degli interferometri per onde gravitazionali criogenici e sotterranei*" funded by the Italian Ministry for Education, University and Research (MIUR) (PRIN Research Program 2007)

2008-2016 Manager of the Advanced Virgo adaptive optical system

2008-2011 National contact person of INFN for the *ET (Einstein Telescope) Design Study*, European Commission FP7 (Grant Agreement 211743) and member of the ET Governing Council. Member of the writing team of the ET Design Study.

2015-2017 Member of the Virgo Editorial Board

2016- Manager of the Aberration Control group for the Advanced Virgo commissioning

2017- Chairperson of the Virgo Editorial Board

Academic Service

2008-2012 Member of the Teaching Board of the PhD course in Astronomy at the University of Rome Tor Vergata

2013- Member of the Teaching Board of the joint PhD course in Astronomy, Astrophysics and Space Science of the Universities of Rome Tor Vergata and Sapienza

2011- Local coordinator, Academic Advisor and member of the Selection Committee of the Erasmus Mundus Master Program *"AstroMundus, International Master's Degree in Astronomy and Astrophysics"* funded by the European Union

2013- Representative of the Faculty of Science in the Tor Vergata University Board for Learning, Orientation and Tutoring

2015- Invited member of the Tor Vergata University Board for the International Relations and Cooperation

2015- Member of the Tor Vergata Physics Department Executive Board

Awards

1993: Winner of the Italian Physical Society Prize for young researchers

2002: Winner of the Italian Society of General Relativity and Gravitational Physics prize "for the contribution given to the field of Relativity and Gravitation on the experiments with resonant detectors and to the studies, both experimental and theoretical, on new generation gravitational waves detectors". Selection Committee: C. Bachas (Ecole Normale Superieure, Paris), M. Cerdonio (Università di Padova), G. Ellis (Cape Town, Southafrica), B. Schutz (Albert Einstein Institute, Potsdam), G. Veneziano (CERN)

2016: Special Breakthrough Prize in Fundamental Physics, "For the observation of gravitational waves, opening new horizons in astronomy and physics" with the LIGO Scientific Collaboration and the Virgo Collaboration

2016: Gruber Cosmology Prize, "... for not only validating a key prediction of Einstein's general theory of relativity but inaugurating a new method for studying cosmology, in particular the workings of astronomical objects exhibiting the greatest gravitational effects in the universe" with the LIGO Scientific Collaboration and the Virgo Collaboration

2017: Albert Einstein Medal with the LIGO Scientific Collaboration and the Virgo Collaboration

Other appointments

2012-2015 Referee of the ETRUSCO-GMES experiment in the National Committee for Technological Research Experiments of INFN

2009 Member of the Selection Committee for the Gravitational Wave International Committee Thesis Prize

2010 Chair of the Selection Committee for the Gravitational Wave International Committee Thesis Prize

Referee of international journals (Classical and Quantum Gravity, Nuclear Inst. and Methods in Physics Research)

Conferences

Member of the Local Organizing Committee of EWASS 2012 (European Week of Astronomy and Space Science), July 1-6 2012, Rome

Convener of the session "Q&A: Everything you wanted to know about GWs but were afraid to ask" at the 20th International Conference on general Relativity and Gravitation and 10th Amaldi Conference on Gravitational Waves, July 7-13, 2013 Warsaw

Member of the Scientific Advisory Committee of "GDADW 2015 – Gravitational Wave Advanced Detectors Worshop", May 17-22, 2015, Girdwood (Alaska)

Convener of the session on "Gravitational Waves" of TAUP 2015 (Topics in Astroparticle and Underground Physics), September 7-11, 2015

Convener of the session on Gravitational Waves at RICAP-16 (6th Roma International Conference on AstroParticle Physics) June 21-24, 2016

Member of the Scientific Organizing Committee of the LXII Italian Astronomical Society Conference, May 2-5, 2018

Participation with invited talks in many international conferences

Teaching activity

- At the Physics Department of the University of Rome "Tor Vergata":

- Academic Year 2006-2007 - Academic Year 2016-2017: General Physics – Electromagnetism and Optics
- Academic Year 2007-2008 - : Gravitational Waves
- Academic Year 2016-2017 - : General Physics – Mechanics and Thermodynamics
- Lectures on General Relativity and Gravitational Waves for PhD programs in Physics and in Astronomy and Astrophysics.

- Lectures on Gravitational Waves sources and experiments at the GSSI (Gran Sasso Science Institute) since 2013

- Tutor for many bachelor, master and PhD theses.

- Active in outreach and educational activities addressed to students and teachers of secondary schools.

Publications

- Author of more than 250 publications on refereed international journals. H-index: 52 (Web of Science)

- Books:

"Thermal Adaptive Optics" in *Advanced Interferometric Gravitational Wave Detectors*, D. Reitze, P.R. Saulson editors (World Scientific), in press

"Gravitational Physics: from Quantum to Waves" in *Multiple Messengers and Challenges in Astroparticle Physics*, R. Aloisio, E. Coccia, F. Vissani editors (Springer International Publishing Switzerland, 2018).

Research

Research interests are in the field of gravitation, with the main focus on gravitational wave physics, sources and detectors.

Major involvement in the cryogenic GW detectors Explorer (CERN) and Nautilus (INFN Frascati Labs) and in the interferometric detector Virgo (European Gravitational Observatory in Cascina - Pisa).

Participation in the Large Scale Polarization Explorer experiment for detection of B-modes in CMB since 2015.

Collaborations with research groups at the University of Leiden (The Netherlands), California Institute of Technology (USA), University of Adelaide (Australia).

Participation to the research activity on new coatings and materials in the AdCoat experiment funded by the National Committee for Technological Research Experiments of INFN in 2014-2015.

Main research topics: low and ultra-low temperatures applied to GW detectors, superconducting electronics, measurement of weak forces acting on low dissipation mechanical oscillators, isolation from vibrations at a displacement sensitivity level of the order of 10^{-22} m/√Hz, adaptive optics.

PERSONAL INFORMATION

Michele Punturo

Michele.punturo@pg.infn.it

Sex Male | Date of birth 18/08/1965 | Nationality Italian

WORK EXPERIENCE

2012-2017

Senior researcher (*Primo Ricercatore*) at the Istituto Nazionale di Fisica Nucleare (INFN). – Sezione di Perugia

Since more than 10 years I inspired and created a sector of the Gravitational Wave (GW) research devoted to the future (3G) detectors; currently I'm a Co-Chairman of the new born GWIC (Gravitational Wave International Committee) subcommittee devoted to the world-wide coordination of the 3rd generation GW projects.

International coordinator of the European project GraWIToN, supported by European Commission in the FP7-Marie Curie Actions framework. GraWIToN (2014-2018) is an International Training Network aiming to the training of 14 PhD in Europe in the Science and Technologies related to the Gravitational Wave detectors (General Relativity, Astrophysics, Opics, Signal Processing, ...). In this role I organised scientific, technical and management schools in Europe.

International coordinator of the European project ELiTES, supported by European Commission in the FP7-IRSES framework. ELiTES is a international exchange project between Europe and Japan, in the gravitational wave (GW) research field, involving Italian, French, Dutch, British, German and Japanese Universities and institutions; it started the 1st of March, 2012 with a duration of 5 years. The meetings of ELiTES are hosted by the European Delegation in Japan (Tokyo).

Since October 2015 Coordinator of all the computing activities in the Virgo experiment; in this role I have the responsibility to plan and organise the computing resources and infrastructures of the Virgo collaboration.

Member of the INFN Astroparticle national committee (CSN2), representing the Perugia INFN unit. In this context I'm acting as referee for the computing requests of all the experiments belonging to CSN2..

Member of the INFN committee for post-doc positions at the INFN unit in Perugia

INFN Perugia Representative within the National Training committee (2011-2015)

Member of the Gravitational Wave International Committee (GWIC) since 2008.

Referee on large research proposals (IRAP) for the Foundation for Polish Science (2017)

Referee for European COST proposals (2016)

Referee for research proposal for the Hungarian Academy of Science (2016)

Referee on research proposals for the Australian Research Council (2016)

Referee on research proposals for the British Science and Technology Facilities Council (2015)

Evaluator of the quality of the research for the Czech Academy of Science (2015)

Referee for the Italian University and Research Ministry in the "Futuro in Ricerca 2013" programme.

2006-2011 **Senior Researcher (Primo Tecnologo) at the INFN-Perugia**

International scientific coordinator of the Einstein Telescope (ET) project, supported by the European Commission under FP7-Capacities. ET is a design study of a 3rd generation gravitational wave observatory. The ET design study involved 5 nations (Italy, France, Germany, The Netherlands and UK) and now involves scientists coming also from Poland, Hungary and Russia.

Chairman of the 2nd ASPERA Technology Forum on Mirror and Lasers in Astroparticle Physics Infrastructures (Ott.2011), a workshop organized to facilitate the interaction between European laser and optics industries and Research Institutes involved in astroparticle research.

Consultant of the European Gravitational Observatory for the international relationships; in this role I organized a joint meeting between EGO and the Japanese Institute for the Cosmic Ray research (ICRR), supported by the Italian Embassy in Tokyo, and a joint meeting between EGO and IndIGO (Indian Initiative in Gravitational Wave Observation, Pune, India), supported by the Italian Embassy in New Delhi.

Guest Editor of a “General Relativity and Gravitation” journal special issue devoted to ET.

Member of the Gravitational Wave International Committee (GWIC) since 2008.

Detector coordinator (until 2008) of the Virgo experiment.

2000-2006 **Researcher (Tecnologo) at the INFN-Perugia**

Detector coordinator of the international experiment Virgo, managing and steering all the upgrade activities of the detector. In this role I coordinated the “in situ” activities of the Virgo scientific collaboration, composed by about 150 physicists and engineers, coming from France, Italy and The Netherlands.

Coordinator of the networking (N5) activities of the ILIAS project, an integration activity supported by the European Commission under FP6-Capacities.

Promoter of a project named QuCORP, addressed to the direct measurement of the radiation pressure in optical devices (GW detectors and MEMS), supported by INFN 5th national committee.

Principal applicant and Chairperson of an international Exploratory Workshop supported in 2005 by the European Science Foundation (ESF) and titled “Toward a 3rd generation European Gravitational Wave Observatory”.
Referee for the Vigoni programme for the exchange programme between Italian and German universities.
Referee for the American Project eLIGO
Referee for the NSF for the LIGO R&D projects.
Representative for INFN-Perugia in the National Computation and Networking committee.
Consultant of the company SESO (Société Européenne de Systèmes Optiques) in a Technology Transfer activity
Consultant of the company SILO (Società Italiana Lavorazioni Ottiche) in a Technology Transfer activity

Business or sector GW research, International projects

1994-1999 **Researcher (temporary position) at the INFN-Perugia**

Responsible of the design and assembling of the Virgo optics suspension system.

Business or sector GW research

1990-1993 **PhD at the Perugia University**

Research activity at the CERN experiments UA2, NA31 and NA48. Design of mechanical, electronic and software components.

Business or sector High Energy Particle Physics

EDUCATION AND TRAINING

1990-1993 **PhD in Physics**

"Study of a rare decay of the Meson Ks: Ks→2γ"

- Data Analysis, Simulation, Fortran, C programming

1990 **Degree ("Laurea") in Physics (110/110 e lode)**

"Development of a detector for a future High Energy particle accelerator"

- Data Analysis, Simulation, Fortran, C programming

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s):

ENGLISH	FRENCH (SCHOLASTIC)	

Communication skills: Good communication skill acquired in my role of coordinator (of several projects) and thanks to the many conference presentations performed. In the last years I presented several public speeches on the GW detection

Organisational / managerial skills: Excellent coordination and management skill, developed in all my career.
- leadership (I had the duty to manage teams of ten or hundred elements)

Job-related skills: Capability to solve problems and negotiate solutions. Modeling.

Computer skills: Computer programming (C, Fortran, Matlab, HTML)

ADDITIONAL INFORMATION

Publications
- Author of 250 publications in scientific journals and of contributions in two books.

Projects: Advanced Virgo, Einstein Telescope, GraWIToN, ELiTES

Conferences: More than 50 presentations at national and international conferences and workshops

Memberships:
Member of the Gravitational Wave International Committee (GWIC)
Co-Chairman of the 3G subcommittee of the GWIC
Member of the Virgo Steering Committee (VSC-wide)
Coordinator for the INFN Perugia unit in the INFN Astro-particle Scientific Committee (CSN2)
Observer of the CSN2 in the INFN Computing and Network Committee (CCR)
Member of the INFN CNAF-Tier1 referee committee

Prizes: Breakthrough prize 2016 for the detection of GW

Abilitazione scientifica nazionale (2012) 02/A1 "Fisica Sperimentale delle Interazioni Fondamentali", Ia Fascia.

Dario Barberis – Curriculum Vitae

Born on 26/11/1956 in Milan (Italy). Italian citizen. Married.

Current address:
- Via Donghi 2/29B, I-16132 Genova (Italy)

Contacts:
- Dario dot Barberis at cern dot ch
- Dario dot Barberis at ge dot infn dot it
- Dario dot Barberis at unige dot it

Current position:

- **Employment**:
  - Researcher and lecturer at the Physics Department of the University of Genoa (IT). Associated with INFN (Italy) and "User" at CERN (Switzerland).
- **Research responsibilities in the ATLAS experiment**:
  - Distributed Computing Monitoring Coordinator
  - Information Protection Officer
  - EventIndex Project Leader
  - Chair of the Computing Resource Management Committee

Current research interests:

- **High-energy physics**:
  - Study of production and decays of particles containing heavy quarks (charm and beauty).
  - Search for long-lived heavy particles (R-parity violating hadrons).
  - Search for tachyons and other low-ionising particles (fractionally charges particles).
- **Software & Computing for HEP experiments**:
  - Distributed computing infrastructure development and evolution.
  - Optimisation of access to Big Data and analysis of metadata.
- **Detector technology for HEP experiments**:
  - Development of silicon pixel detectors modules for precision tracking devices.

Publications:

- **Over 800 publications** in refereed journals:
  - 180 physics analysis publications on heavy quark production and decays with fixed-target experiments at the Omega Spectrometer.
  - Over 600 physics analysis publications with the ATLAS Collaboration.
  - 25 silicon microstrip and pixel detector development publications.
  - 15 ATLAS software & computing publications.
- Complete publication list:

http://inspirehep.net/search?ln=en&ln=en&p=find+a+barberis,+d&of=hb&action_search=Search&sf=earliestdate&so=d&rg=250&sc=0

- **H-Indices**:
  - HEP H-index from InSpire:
    - all published papers: **113**
    - no self citations: **97**
    - http://inspirehep.net/search?ln=en&p=author:D.Barberis.1&of=hcs2
  - WebOfScience: **57**
    - https://apps.webofknowledge.com/CitationReport.do?product=WOS&search_mode=CitationReport&SID=W1emImAalS9WQguCkLr&page=1&cr_pqid=1&viewType=summary&colName=WOS
  - Scopus: **58**
    - https://www.scopus.com/authid/detail.uri?authorId=7007066092

Education:

- 1970-1975: Scientific High School "Vittorio Veneto", Milan (Italy). Scientific baccalaureat with final mark 60/60.
- 1975-1980: Physics course at the Physics Department of the University of Milan (Italy). Final thesis on "Preliminary study for an experiment on nucleon stability", supervisor Prof. E. Fiorini. Physics degree with final mark 110/110 cum laude.
- 1980-1982: PhD in Physics at the Physics Department of the University of Manchester (UK), with a grant from the University of Manchester. PhD thesis on "Photoproduction of Charmed F Mesons at the Omega Spectrometer", supervisor Dr. B. Dickinson.

Employment record:

- 1982-1985: Research Associate at the Physics Department of the University of Manchester (UK), based at CERN since April 1983.
- 1985-1988: Research Fellow at CERN.
- 1988-1991: Wissenschaftlicher Mitarbeiter at the Physics Institute of the University of Heidelberg (DE), based at CERN.
- 1991-1992: Scientific Associate at the Nuclear Sciences Institute in Grenoble (FR).
- Since 1992: Researcher/lecturer at the Physics Department of the University of Genoa (IT).

Scientific activity summary:

- 1980-1986: Experiments WA57 and WA69 to study the photo-production of heavy quarks (charm) using the Omega spectrometer at CERN.
- 1986-1996: Study of the hadronic production of mesons and baryons containing charm and beauty quarks using the Omega spectrometer at CERN:
  - 1986-1988: Experiment WA82 for the production of charm mesons;
  - 1988-1992: Experiment WA89 for the production of charm-strange baryons using a hyperon beam;
  - 1992-1996: Experiment WA92 for the production of mesons containing charm and beauty quarks.
- Since 1996: **Experiment ATLAS at LHC**:
  - 1996-2000: Design of the Inner Detector layout
  - 1998-2002: Studies of b-tagging performance
  - 2000-2003: Inner Detector software development and coordination
  - 2003-2010: Computing coordination: organisation of software development using new paradigms and language on an unprecedented scale (over 200 developers); system architecture design and operation of a new world-wide distributed computing infrastructure; hardware and manpower resource provisioning and management.
  - 2010-2017: Database coordination: system evolution and operations.
  - Since 2010: Italian Tier-3 coordination: deployment of local computing resources and operations.
  - Since 2011: Information protection: automation of the membership database synchronisation tools, operations and user support/advice.
  - Since 2012: Project architecture and development of the new EventIndex, a global event catalogue based on modern NoSQL data storage technologies.
  - 2014-2017: member (then chair) of the Software & Computing Speakers & Publications Committee. Selection of speakers for S&C conferences and review of presentations and proceedings.
  - Since 2017: Distributed computing monitoring coordinator.
  - Since 2018: Chair of the Computing Resource Management Committee.
  - Physics studies:
    - Several editorial boards for conference notes and published papers on B-physics and standard model topics
    - Search for particles with anomalously high energy deposition (dE/dx) in the pixel detectors to identify high-mass supersymmetric long-lived R-parity violating states
    - Search for tachyons and fractionally charged particles that would give low energy deposition in the pixel detectors

Seminars and talks at international conferences:

- Experiment WA69:
  - Seminar at ISN Grenoble (France) on "Photoproduction and non-perturbative QCD", April 1991.
- Experiment WA82:
  - Talk at the International Symposium on Heavy Quark Physics, Cornell University, June 1989, on "Charm hadroproduction with an impact parameter trigger".
  - Seminar at FNAL on "First results of experiment WA82", June 1989.
  - Seminar at the Lebedev Physical Institute of the Soviet Union Academy of Sciences, Moscow (Russia), on "Charmed meson production in experiment WA82", September 1990.
  - Talk at the Conference on Heavy Quarks at Fixed Target, Frascati (Italy), May 1993, on "Charmed meson decays: an overview of recent results".
- Experiment WA92:
  - Talk at the Charm-2000 Workshop, FNAL, June 1994, on "A secondary vertex trigger for beauty search: results from the WA92/Beatrice experiment".
  - Talk at the Conference on Heavy Quarks at Fixed Target, FNAL, October 1998, on "Charm and beauty production in experiment WA92".
- Experiment ATLAS:
  - Talk at the Vertex-98 Conference, Santorini (Greece), September 1998, on "Performance of the ATLAS Vertex Detector".
  - Talk at the Beauty-99 Conference, Bled (Slovenia), June 1999, on "Performance of the ATLAS Inner Detector".
  - Talk at the Pixel-2002 Conference, Carmel (California), September 2002, on “Physics with 2nd Generation Pixel Detectors”.
  - Seminar at the Cavendish Laboratory, University of Cambridge (UK), April 2004, on “ATLAS Data: from Bits to Histograms”.
  - Talk at the CHEP'07 Conference, Victoria (Canada), September 2007, on “The ATLAS T0 Software Suite”.
  - Seminar at the Instituto de Física Corpuscolar, University of Valencia (Spain), January 2008, on “Distributed Computing for the ATLAS Experiment”.
  - Closing summary talk at the CHEP'09 Conference, Prague (Czech Rep.), March 2009.
  - Talk at the "Physics at Future Colliders 2009" Conference, Tbilisi (Georgia), October 2009, on "ATLAS Software & Distributed (Grid) Computing".
  - Talk at the "NorduGrid 2010" Conference, Ljubljana (Slovenia), May 2010, on "Computing for LHC Experiments".
  - Talk at the Europhysics Conference on High-Energy Physics HEP-EPS2011, Grenoble (France), July 2011, on "Distributed processing and analysis of ATLAS experimental data".
  - Talk at the "Nuclear Engineering and Computing Conference" NEC2011, Varna (Bulgaria), September 2011, on "Data handling and processing for the ATLAS experiment".
  - Talk at the “International Symposium on Tools and Methods of Competitive Engineering” TMCE2012, Karlsruhe (Germany), May 2012, on “World-wide Distributed Computing for High-Energy Physics Experiments”.
  - Talk at the “Intenational Conference on New Frontiers in Physics” ICNFP2013, Kolymbari (Greece), August 2013, on “Review of recent Heavy Flavour Physics results from the ATLAS experiment”.
  - Talk at the International Conference on High-Energy Physics ICHEP2014, Valencia (Spain), July 2014, on "ATLAS Computing Challenges before the next LHC run".
  - Talk at IVICFA’s Fridays, Valencia (Spain), October 2014, on “Managing BigData: Evolution of Event Metadata and Conditions Database Technologies”.
  - Talk at the “South-Caucasus Grid and Cloud Computing Workshop”, Tbilisi (Georgia), October 2014, on “Database applications and developments in ATLAS”.
  - Talk at the CHEP'15 Conference, Okinawa (Japan), April 2015, on “The ATLAS EventIndex: architecture, design choices, deployment and first operation experience”.
  - Talk at the "Nuclear Engineering and Computing Conference" NEC2015, Budva (Montenegro), September 2015, on "Evolution of the use of relational and NoSQL databases in the ATLAS experiment".

- Talk at the "Nuclear Engineering and Computing Conference" NEC2015, Budva (Montenegro), September 2015, on "Meta-Information in the ATLAS Experiment".
- Talk at the 28th Rencontres de Blois, Blois (France), May 2016, on "Heavy flavour production and properties at ATLAS and CMS".
- Talk at the LHC Days in Split, Split (Croatia), September 2016, on "B-Physics in ATLAS and CMS".
- Talk at the "South-Caucasus Computing and Technology Workshop", Tbilisi (Georgia), October 2016, on "Information technology challenges for HEP experiments".
- Seminars at the Kurchatov Institute in Moscow and the Tomsk Polytechnic University in Tomsk (Russia), December 2016, on "Modern database technologies and databases in the exascale era".
- Talk at the "Nuclear Engineering and Computing Conference" NEC2017, Budva (Montenegro), September 2017, on "Modern SQL and NoSQL database technologies for the ATLAS experiment".
- Talk at the "53rd Rencontres de Moriond (ElectroWeak)", La Thuile (Italy), March 2018, on "Squark and gluino searches with R parity violating decays and long-lived particles in ATLAS".

Scientific organisation roles:

- 1984-1988: contactman of experiment WA69 at CERN.
- 1990-1992: member of the CERN Computing resources allocation committee (CoCoTime).
- 1991-1992: contactman of experiment WA89 at CERN.
- June 1997 to September 2002: coordinator of the ATLAS b-tagging performance group.
- January 1999 to January 2003: coordinator of ATLAS Inner Detector software and member of the Inner Detector Steering Group and the Computing Steering Group.
- May 1999 to May 2001: coordinator of the ATLAS software quality control group.
- February to October 2000: ATLAS representative in the software committee of the CERN-LHC Computing Review.
- March 2003 to February 2010: ATLAS Computing Coordinator (and member of the ATLAS Executive Board and Collaboration Board).
- March 2010 to September 2017: ATLAS Database Coordinator and ATLAS-Italy Tier-3 Coordinator.
- Since December 2011: ATLAS Information Protection Officer.
- Since November 2012: ATLAS EventIndex Project Leader.
- February 2013 to January 2016: Local coordinator in Genoa for the PRIN 2010-2011 "STOA" project supporting EventIndex developments.
- June 2014 to June 2017: member of the ATLAS Software & Computing Speakers & Publications Committee (Chair since June 2016).
- Since November 2015: member of the Research Funding Committee of the Physics Department of the University of Genoa.
- Since October 2017: Coordinator of ATLAS Distributed Computing monitoring developments and operations.
- Since March 2018: Chair of the ATLAS Computing Resource Management Committee.

Organization of conferences and workshops:

- Year 2000: member of the local organization committee of the International Workshop on Semiconductor Pixel Detectors for Particles and X-Rays "Pixel2000", Genova (Italy), June 2000.
- Year 2004: member of the International Advisory Panel of the CHEP'04 conference (Computing in High Energy Physics), Interlaken (Switzerland), September 2004.
- Year 2005: member of the International Advisory Panel of the CHEP'06 conference (Computing in High Energy Physics), Mumbai (India), February 2006.
- Year 2007: member of the International Advisory Panel of the CHEP'07 conference (Computing in High Energy Physics), Victoria (Canada), September 2007.
- Year 2009: member of the International Advisory Panel of the CHEP'09 conference (Computing in High Energy Physics), Prague (Czech Republic), March 2009.
- Year 2010: member of the International Advisory Panel of the CHEP'10 conference (Computing in High Energy Physics), Taipei (Taiwan), October 2010.
- Year 2010: member of the International Advisory Committee of the South-Caucasus Software & Computing Workshop, Tbilisi (Georgia), October 2010.
- Year 2012: member of the International Advisory Committee of the South-Caucasus Software & Computing Workshop, Tbilisi (Georgia), October 2012.
- Year 2013: member of the Program Committee of the CHEP'13 conference (Computing in High Energy Physics), Amsterdam (NL), October 2013.
- Year 2014: member of the International Advisory Committee of the South-Caucasus Grid and Cloud Computing Workshop, Tbilisi (Georgia), October 2014.
- Year 2015: member of the International Advisory Panel of the CHEP'15 conference (Computing in High Energy Physics), Okinawa (Japan), April 2015.
- Year 2016: member of the International Advisory Committee of the South-Caucasus Computing and Technology Workshop, Tbilisi (Georgia), October 2016.

Teaching Activities:

- 1980-1982: Physics Department of the University of Manchester (UK): general physics laboratory for physics students.
- 1992-1996: Information Science Department of the University of Genoa (Italy): electronics laboratory for computer science students.
- 1996-1998: Chemistry and Natural Sciences Departments of the University of Genoa (Italy): physics laboratory for chemistry and environmental science students.
- 2000-2003: Information Science Department of the University of Genoa (Italy): general physics exercises for computer science students. Chemistry Department of the
- University of Genoa (Italy): physics laboratory for chemistry students.
- 2005-2009: Physics Department of the University of Genoa (Italy): computing laboratory for physics students.
- 2009-2010: Information Science Department of the University of Genoa (Italy): general physics exercises for computer science students.
- 2010-2012: Engineering Faculty of the University of Genoa (Italy): general physics exercises for students in civil and environmental engineering.
- 2011-2012: Physics Department of the University of Genoa (Italy): data acquisition and control laboratory for physics students.
- Since 2012: Polytechnic School of the University of Genoa (Italy): general physics course for students in computing engineering.