

Curriculum Vitae

**CURRENT POSITION**

- Professor of Experimental Physics of Fundamental Interactions, University of Rome Tor Vergata, since 2015
- Coordinator of the Faculty of Sciences, University of Rome Tor Vergata (2021-24)
- Vice Director, Department of Physics, University of Rome Tor Vergata (2018-24)

EDUCATION

- Ph.D. in Experimental Particle Physics, University College London, 2002
- Laurea in Fisica, "Sapienza" University of Rome, 1998
- Postgraduate Certificate on Academic Practice, Queen Mary University of London, 2009

POSITIONS HELD

- Reader in Particle Physics, Queen Mary University of London (QMUL, UK), 2013 -16
- Lecturer of Experimental Particle Physics, Queen Mary University of London (UK), 2006 -13
- PPARC Research Fellow, University of Oxford (UK), 2005-06.
- Postdoctoral Research Associate, University of Illinois at Urbana-Champaign (USA), 2002-05

Other Academic or Research Appointments:

- Visiting Reader, University of Southampton, 2013-17.
- Associate Professor, University of Perugia (Italy), 2014-15.
- Visiting Scientist, CERN, 2011-12.
- Visiting Scientist, Royal Society's International Short Visit, CERN (Switzerland), 2007
- Lecturer, Exeter College, University of Oxford (UK) 2006
- Visiting Scientist, Fermi National Accelerator Laboratory (IL, USA), 1999-2005.
- Doctoral Student, Rutherford Appleton Laboratory, CCLRC, Didcot (UK), 1998-02
- INFN Undergraduate Student, Frascati National Laboratory, INFN, Frascati (Italy), 1997-98

AFFILIATIONS and PRIZES

- Grantee of the European Research Council, ERC Consolidator Grant (2015-21)
- Fellow of the UK Institute of Physics (Elected 2018)
- Fellow of the UK Higher Education Academy (Admitted 2009)
- Recipient of the QMUL Science and Engineering Research Performance Award (2013)
- Co-recipient of the 2019 EPS-HEP Prize to the CDF and D0 Collaborations (2019) "for the discovery and detailed measurements of the top quark"
- Co-recipient of the 2013 EPS-HEP Prize to the ATLAS Collaboration (2013) "for the discovery of the Higgs boson"
- Recipient of a UK Leverhulme Trust Research Fellowship (2011)
- Recipient of a UK Particle Physics and Astronomy Research Council Fellowship (2005-08)
- Member of the European Physical Society (2015-)
- Member of the ATLAS Collaboration at CERN (2007-)
- Member of the CDF Collaboration at FermiLab (2000-)

RESEARCH MANAGEMENT

- Principal Investigator (PI), NPTEV-TQP2020 ERC CoG research programme (2015-21)
- Convener, ATLAS Top Quark Mass measurements Group (2017-19)
- Deputy Team Leader, ATLAS University of Rome Tor Vergata group (2018-)
- Institute Representative, ATLAS Trigger and DAQ board, 2009-
- Coordinator of the QM London ATLAS Level-1 Calorimeter Trigger group (2009-16)
- Principal Investigator for QM London activities on the ATLAS Level-1 Calorimeter Trigger Upgrade (2010-16)
- Deputy Team Leader, ATLAS Queen Mary University London group (2011-16)
- Convener, ATLAS Top Quark Cross Section Group, (2011-12)
- Convener, ATLAS-UK Top Physics Group, 2008-10
- Convener, CDF Muon Software Group (2003-2005)
- Coordinator for the operations and maintenance of the CDF Central Muon Upgrade System, 2002-2004

INSTITUTIONAL MANAGEMENT, PANELS and SERVICE

- Coordinator of the Faculty of Sciences, University of Rome Tor Vergata (2021-24)
- Vice Director, Department of Physics, University of Rome Tor Vergata (2018-24)
- Member of the University's Technology Transfer Committee, University of Rome Tor Vergata (2022-25)
- Member of the University's Research Committee, University of Rome Tor Vergata (2019-22)
- Member of the Group of Evaluation Experts (GEV), Physical Sciences, ANVUR VQR 2015-19 (2020-22)
- Chair, Outreach Working Group, Department of Physics, University of Rome Tor Vergata (2018-21)
- Member of the Faculty of Sciences Coordination Committee, University of Rome Tor Vergata (2018-21)
- Member of the national panel 02/A1 (experimental HEP) of the Italian Abilitazione Scientifica Nazionale (2016-18)
- Member of the Doctoral Teaching Board, Department of Physics, University of Rome Tor Vergata (2017-)

Positions Held

Affiliations and Prizes

Research Management

Institutional Management,
Panels and Service

- Member of the Research Quality Committee, Department of Physics, University of Rome Tor Vergata (2017-21)
- Member of the Teaching Student-Staff Committee, Department of Physics, University of Rome Tor Vergata, (2017-19)
- Director for Admissions to the QM London PhD Programme in Particle Physics (2012-13)
- Member of the UK Science and Technology Projects Peer Review Panel, (STFC) 2010-11
- Chair of the Editorial Board for several ATLAS papers on SUSY searches (2008-present-Referee for the American Physical Society Journals, Physical Review. 2006-present
- Referee for the European Research Council ERC CoG and AdG, Italy's MIUR, UK's STFC, Chile's Fondecyt
- Deputy Chair of the School of Physics Exam Board, QM London (2012-13)
- Member of the Editorial Board for several CDF papers (2005-present)
- ATLAS representative to the London-Tier 2 Computing Grid, 2007-08

Teaching

TEACHING

- Physics of Energy and the Environment, Physics undergraduate course, University of Rome Tor Vergata, since 2021/22
- Particle Physics, 4th-year Physics undergraduate course, University of Rome Tor Vergata, since 2016/17
- Quantum Physics, 1st-year Physics undergraduate course, QM University of London, 2015/16
- Classical Mechanics and Electrostatics, 1st-year UG course for Engineers, University of Perugia, 2014/15
- Classical Physics 1st-year UG course for Biologists, University of Perugia, 2014/15
- Radiation Detectors 3rd-year Physics undergraduate course, QM University of London, 2012/13, 2013/14.
- Review and Independent Projects 3/4th-year Physics undergraduates, QM University of London, 2013/14
- Vibrations and Waves, 2nd-year Physics undergraduates, QM University of London, 2009/10, 2010/11, 2011/12
- Scientific Measurement, 1st-year Physics undergraduates, QM University of London, 2008/09, 2009/10, 2010/11
- Quantum Mechanics, Exeter College, University of Oxford, U.K., 2005/06
- Electromagnetism, Exeter College, University of Oxford, U.K., 2005/06

Outreach

OUTREACH

- European Research Night, organiser of the Photographic Exhibit "Technology at Particle Accelerators" (2017)
- ScienzaOrienta, UniRoma2, Talk "ATLAS Experiment: from the Higgs boson to Dark Matter searches" (2017)
- European Research Night, UniRoma2, Talk "Waves and Particles" (2016)
- Summer Placements at UniRoma2, Talk "The Discovery of the Higgs Boson" and ATLAS hands-on (2016)
- Royal Society Summer Science Exhibition (London), co-organiser "The Higgs Boson and beyond" (2014).
- Organiser of the QM University of London Particle Physics Masterclass (all years between 2007-2013)

Research Funding

RESEARCH FUNDING

- PNRR Doctoral Grant (2023-26), Data analysis of the quark top with the ATLAS experiment, EUR 60k
- INFN (Italy) joint PDRA programme (2023-26), Principal Investigator "Properties of symmetry (C,P,T) of the top quark and of the b-quark with the ATLAS experiment", EUR 75k
- MIUR (Italy) FARE scheme (2018-2021), Principal Investigator "Characterisation of Higgs-natural models", EUR 153k
- INFN (Italy) joint PDRA programme (2016-19), Co-Investigator "ATLAS data and muon detectors upgrade", EUR 150k
- European Research Council Consolidator Grant (2015-2020), Principal Investigator "NPTEV-TQP2020", EUR 2M
- STFC (UK) Standard Grant, £3.2M Co-Investigator, "QMUL HEP Group grant", (2012-2015)
- NeXT Institute (UK) Joint PhD Studentship, £ 50,000, Co-Investigator, "Search for resonant production of top quark pairs at ATLAS" (2013-16)
- Leverhulme Trust (UK) Research Fellowship (PI), £ 45,000 Research Fellow "ATLAS exploitation and trigger upgrade" (2011-12),
- STFC Standard Grant, £ 90,000, PI "ATLAS Level-1 Calorimeter Trigger Upgrade (QMUL)" (2010-2012).
- STFC Standard Grant, £2.6M Co-Investigator, "QMUL HEP Group grant", (2009-2012)
- STFC Standard Grant, £430,000 Co-Investigator, "QMUL HEP PhD studentships", (2008-2012)
- SEPNet Summer Placement programme, £2,700 Grant holder (2010, 2011)
- The Westfield Trust, £6,500 Grant holder, "A cosmic muons detector for physics undergraduate projects" (2010).
- STFC Research Fellow, STFC Fellowship (PI), £165,000 "Measurements of the top quark with the CDF II detector" (2005-08)
- The Royal Society (UK), International Project Grant (PI), £4,500, "From Tevatron to LHC: top quark mass and top-Higgs production" (Mar-Jul 2007).