

Carlo MARIANI

(born 1956)

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Employment and Education

2001-now: Full Professor of Physics of Matter at the University of Roma "La Sapienza"

1998-2001: Associate Professor of Physics at the University of Modena and Reggio Emilia

1989: invited Associate Professor at the Université Pierre et Marie Curie, Paris

1984-1998: permanent staff Researcher at the Dept. of Physics, Univ. of Modena

1983: CNR Researcher at Frascati synchrotron radiation facility Adone

1980-1982: post-doc Researcher at the Fritz-Haber-Institut der Max-Planck-Gesellschaft in Berlin

1979: Graduated in Physics "cum laude" at the University of Rome

Appointments

2018-now: member of the Scientific Advisory Council (SAC) of the European Synchrotron Radiation Facility (ESRF)

2015-now: member of the Proposal Review Panel of the french synchrotron Soleil, Saint Aubin (Paris)

2013-2017: Deputy-Dean of the School of Mathematical, Physical and Natural Sciences at Sapienza University, Roma

2013-2015: member elected in the Council of the Coordinated Access to Lightsources to Promote Standards and Optimization (CALIPSO)

2012-now: board member of the PhD School in "Mathematical Models, Electromagnetism and Nanosciences", Roma

2012-2015: member of the Proposal Review Panel of the free-electron-laser FERMI at Elettra, Trieste

2011-now: member of the Executive Committee of the European Synchrotron Users Organization (ESUO)

2011-now: member of the User Selection Panel (USP) of the Transnational Access for the research Infrastructure at the Frascati National Laboratories, INFN

2011-2017: chair-person of the Proposal Review Panel of the Elettra synchrotron radiation facility, Trieste (Italy)

2011-2017: delegate of the Sapienza University in the Interuniversity Consortium for the Structure of Matter (CNISM)

2010-2014: reviewer of the European Synchrotron Radiation Facility (ESRF)

2010-now: reviewer of the Canadian Light Source (CLS), Saskatoon (Canada)

2009-2012: member elected in the council of the European Light Sources Activities (ELISA)

2008-2013: member of the teaching staff of the PhD in Material Science, within the PhD School Volterra, at Roma "La Sapienza" University

2008-2011: President elected of the Italian Society for Synchrotron Radiation (SILS)

2004-now: responsible of the surface science committee of the Proposal Review Panel of the Elettra synchrotron radiation facility at Trieste, Italy

2008: co-chair of the General Conference of the Condensed Matter Division of the European Physical Society

2004-2007: member of the teaching staff of the PhD School on Nanoscience and Nanotechnology at Modena University

2001-2003: member of the Executive Committee for Synchrotron Radiation of the National Institute for the Physics of Matter (INFN)

2000-2004: member of the teaching staff of the PhD in Physics at Modena University

1997-2001: EU ECTS, EMSPS, TEMPUS, EUPEN, and Socrates/Erasmus coordinator at Modena

1995-1998: member elected in the Council of the Physics Department at Modena University

1995-1999: member elected in the Council of Italian Society for Synchrotron Radiation (SILS)

1987-2011: Member of the Scientific Committee for National and International Conferences (AIV, Advances in surface and interface physics, SILS, etc.)

Referee of the several major international journals

Referee of research projects within the Framework Programmes of the EU

Referee of research projects for the Italian, Rumanian, Belgian Funding Agencies and Ministries of Research

Member (Referent) of PhD commissions (RWTH Aachen, Germany, Brescia, Cosenza, Milano, Roma1, Roma2, Roma3, etc.), and member of several examining bodies for staff researchers, and full and assistant professors in Italy and abroad.

Teaching

2001-now: advanced courses on the physics and technology of nanostructures in PhD Schools (Modena, Rome)

1999 and 2003: director of the INFN doctorate school on Surface Science

1988-now: tutor of several tens of Bachelor and Master students, of eleven PhD students

1988-now: teaching Physics Laboratory courses, basic Physics, basic Electromagnetism, Physics of Condensed Matter, Physics of Low-Dimensional Systems and Nanostructures, in master degree courses

Research activity

Main focus on the experimental study of low-dimensional ordered physical systems and nanostructures, using a variety of experimental approaches, mainly high-resolution angular resolved UV valence band and core-level photoelectron spectroscopy (on-campus and at synchrotron radiation facilities), absorption (NEXAFS, XMCD) and grazing-incidence x-ray diffraction (GIXD) at synchrotron radiation facilities. Surfaces, interfaces, ordered hybrid inorganic-to-organic systems, graphene and C-based materials.

Research grants from INFN, University, CNR, EU, MIUR

1994-now: about thirty invited talks, tens of contributed talks and seminars

Author of more than 160 papers on international refereed journals, 2 books, 2 book-chapters, 51 proceeding and notes, and hundreds of contributions to conferences.

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