

PERSONAL
INFORMATION

Maurizio Canepa

 Genova, Italy



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Sex | Date of birth | Nationality Italian, EC

ACADEMIC CAREER

November 2018 -

Direttore (Head)

Department of Physics (DIFI), University of Genova (UNIGE)

- Management of the funding under the "Departments of Excellence" program granted by the Ministry of University and Research for 2018-22 (7.3 M€)
- Member, School of Science (Mathematical, Physical and Natural) Council

March 2018 -

Professor of Experimental Physics (Full)

DIFI, UNIGE

- Teaching in graduate (Optical properties of matter) and undergraduate (general physics, solid state physics) courses
- Member, PhD School in Chemistry and Materials Science and Technology
- Mentoring (1 MSCA fellow, 1 post-doc, 5 PhD, 3 Master)
- Scientific activity (Optical properties of nanosystems; thin interfaces and coatings; plasmonics & excitonics; ultrafast processes)
- Selected scientific projects
 - Unit PI- PNRR -Infrastructure - ETIC (Einstein Telescope Infrastructure Consortium), 2023-2025 (1 M€)
 - Supervisor, H2020-MSCA-2017 project 799126 PLaTONE "PLasmonics@Transparent cONductive oxidEs"
 - Unit coordinator, National Project MIUR PRIN "Fast ElectRon dynamics in novel hybrid organic-2D MATerials – FERMAT" - 2017KFY7XF_004
 - Principal investigator, "STRATOS- multiSTRATI 2D: Ottica di Sistemi ultrasottili", 2018-2020 (Fondazione Compagnia S. Paolo)
 - Virgo collaboration; Einstein Telescope (ET) project
 - Research line coordinator, Virgo Coating R&D 2017-18 (European Gravitational Observatory)

December 2013 -
November 18

Associate Professor of experimental Physics with National Qualification to full Professorship

DIFI, UNIGE

- Teaching in graduate (Optical properties of matter) and undergraduate (general physics) courses
 - Mentoring (2 post-doc, 5 PhD, 6 Master)
 - Coordinator, PhD program, Material Science and Technology (Nov 2011 – Oct 2018)
 - Chair, Department Committee on Research (Nov 2015 – Oct 18)
 - Scientific activity (Surface nanoscience; thin interfaces and coatings; optical and electronic properties; plasmonics)
- Selected projects
- Virgo collaboration; Einstein Telescope (ET) project
 - Unit coordinator, “AdCoat - Coatings for gravitational antennas of second and third generation” 2014 -16 (INFN)
 - Unit coordinator, National Project “Nanotechnology approaches for tumours theranostics” 2012-16 (MIUR FIRB RBAP11ETKA_005)
 - Unit coordinator, PIK 2012 “EX-PRO-REL- EXcitation PROcesses and RELaxation in condensed matter and nanostructures: methodological, instrumental, and scientific challenges” 2013-14 (Synchrotron ELETTRA, Italy)

May 2004 - December
2013

Associate Professor of experimental Physics

DIFI, UNIGE

- Teaching in graduate (Optical properties of matter) and undergraduate (general and experimental physics) courses
 - Mentoring (3 post-doc, 3 PhD, 9 Master)
 - Invited Professor, University of Paris Sud, Orsay (1 month, 2009, 2008, 2004)
 - Scientific activity (Surface and interface nanoscience; self-assembled monolayers; optical and electronic properties)
- Selected projects
- Virgo collaboration (since 2009); Einstein Telescope (ET) project (since 2011)
 - Unit coordinator, National Project “GRAF - Frontiers in Graphene Research: understanding and controlling Advanced Functionalities” 2010-11 (MIUR PRIN 20105ZZTSE_003)
 - Principal Investigator, “Proprietà ottiche di film ultrasottili granulari su scala nanometrica” 2009-10 (Fondazione CARIGE)
 - Unit coordinator, National Project “Proprietà elettroniche e strutturali e crescita di film debolmente legati: verso la comprensione dell'interfaccia organico-inorganico” 2004-05 (MIUR PRIN 2003028141_005)
 - Principal Investigator, 5 approved proposals at Synchrotron laboratories (ELETTRA, SOLEIL)

July 1992 – May 2004

Research associate/Lecturer

DIFI, UNIGE

- Teaching in graduate and undergraduate (laboratory) courses. Lecturer since 1996.
 - Mentoring (1 post-doc, 1 PhD, 13 Master)
 - Qualification to associate professorship (May 2001)
 - Invited researcher, University of Paris Sud, Orsay (1 month, 2001, 1997)
 - Scientific activity (Surface science; chemisorption; structural, electronic and magnetic properties of ultrathin films; atomic collisions at surfaces)
- Selected projects

- Principal investigator, 8 approved proposals at Synchrotron ELETTRA
- Principal investigator, "PURS 2001- Deposition of Organic Overlayers on Well-defined Metal Surfaces"
- (INFN)
- Coordinator, Research Line GeF1, National Institute for the Physics of Matter (INFN, Genova Unit) 1993-2004

January 1990 – April 1992 **Post-Doctoral fellow**

National Institute for the Physics of Matter (INFN, Genova Unit)

- Scientific activity (Surface science; chemisorption; structural and electronic properties; atomic collisions at surfaces); participant in three national projects (MIUR PRIN)

EDUCATION AND TRAINING

1987-1989 **Dottorato in Fisica (PhD in Physics)**

University of Genova, Italy, Final national evaluation Rome September 1990

Thesis "Studio dell'emissione di elettroni conseguente alla diseccitazione su superficie di atomi di gas nobili in stato elettronico metastabile" (Study of electron emission resulting from de-excitation at surfaces of noble gas atoms in metastable electronic state)

Supervisor: Prof. L. Mattera

1985-february 1986 **Laurea (Master degree) in Physics (Italian top marks, 110/110 cum laude)**

University of Genova, Italy

- Atomic and molecular beam diffraction at ideal surfaces, surface electronic density

+INFORMATION

Publications
@jan2024

<https://orcid.org/0000-0002-5148-1233>

Scopus #35605753600

309, 35K+ citations (including 117 publications of the VIRGO, Virgo/LIGO and VIRGO/LIGO/KAGRA collaborations);

Reviewer for 20+ International Journals (APS, ACS, RSC , Nature Journals, etc.); project reviewer (Italian Ministry, Deutschen Forschungsgemeinschaft, Czech Science Foundation, Fondecyt – Chile DPG), CNCS - Romania

Conference Organization
(selected)

- Chair and proceedings guest editor, European Conference on Organized films, ECOF-14, Genova 2015
- Chair and proceedings guest editor, International Conference on Atomic Collisions in Solids, ICACS 21, Genova 2004
- Committee member, 9th European intensive course "Physics and Chemistry of Multifunctional Materials" , Genova, 2006

- Committee member, European Conference on Surface Science (ECOSS 16); Genova 1996

Participation (selected)

8 session chairs (1 plenary); 17 invited talks (conference/seminars); 40+ oral presentations

Honours and awards

Memberships

- International advisory committee - Nano Science and Nano Technology- NCNSNT, North Maharashtra University (India), 2013
- Scientific Committee, International Conference on Atomic Collisions in Solids, ICACS (2003-10)
- Programme Advisor, ICACS 22, Berlin 2006
- Member, Board of Directors, CNISM – National Interuniversity Consortium for the Physical Sciences of Matter (2010 -14)
- National representative, Surface Science division, IUVSTA – International Union for Vacuum Science, Technique and Applications, 2007-10
- Member, Scientific Board, National Institute for the Physics of Matter (INFN, Genova Unit) 2001-04