

PERSONAL INFORMATION

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[REDACTED]

CONSIGLIO NAZIONALE DELLE RICERCHE

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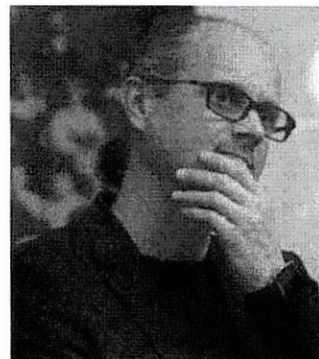
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WORK EXPERIENCE

- **Research Director** (Dirigente di Ricerca) at Istituto di Ottica (INO) - CNR, Pisa (current)
- **Head of the Pisa Unit** of Istituto Nazionale di Ottica (<http://www.pi.ino.cnr.it/pisa/>) (current)
- **Director** of the Intense Laser Irradiation Laboratory (current)
- Istituto Nazionale di Ottica, Consiglio Nazionale delle Ricerche <http://www.cnr.it>, <http://www.pi.ino.cnr.it>
- **Business or sector:** PUBLIC RESEARCH

ONGOING RESEARCH PROJECT WITH LEADING ROLE

- > Next Generation EU (PNRR) - Tuscany Health Ecosystem (THE) 2022-2025 – CNR Delegate and Principal Investigator of Spoke 1 – “Advanced radiotherapies and diagnostics in oncology”
- > Next Generation EU (PNRR) - IPHOQS - INTEGRATED INFRASTRUCTURE INITIATIVE IN PHOTONIC AND QUANTUM SCIENCES, WP Leader
- > EU H2020 - Innovation Fostering in Accelerator Science and Technology (I.FAST) 2020-2024, Task Leader on Laser Driver Development for Plasma Accelerators
- > EU H2020 - Compact European Plasma Accelerator with Superior Beam Quality (EuPRAXIA) 2022-2026, PP of Research Infrastructure, WP Leader (Laser Development)
- > IT MoD - “APOLLO (Advanced Pulsed Orientable Laser for Long distance Operations) – 2019-2024, High repetition rate Ultrafast Laser development

SAMPLE OF PAST PROJECTS WITH LEADING ROLE

- > IT MUR-CNR - Implementazione di Progetti della Roadmap Europea ESFRI: “Extreme Light Infrastructure” (ELI), 2013-2019, PI of Research Unit at CNR-INO
- > EU FP7 - High Power laser Energy Research Facility (HiPER), Research Infrastructures, 2008-2011, PI of IPCF- CNR research unit
- > INFN Commissione Nazionale V, Progetto FAST - Femtosecond timing and sync, 2007-2009, PI of Pisa Research Unit – INFN Sez. Pisa
- > MIUR-FISR- national project on Compact Ultrafast X-ray Sources, National Coordinator, 2003-2007
- > EU FP5 European training network XPOSE, X-ray probing of the structural evolution of matter, Head of IPCF-CNR node, 2000-2004
- > ASI Italian Space Agency, Laue-diffraction optics for gamma-ray astronomy, Scientist in charge of Pisa research unit, 2000-2001

SAMPLE OF OTHER RESEARCH PROJECTS WITH PARTICIPANT ROLE

- > EC European training network GAUS-XRP II, Generation and application of ultrashort, laser-produced X- ray pulses, 1996-2000;
- > EC European training network SILASI, Superintense Laser Solid Interactions, 1996-2000;
- > EC European training network GAUS-XRP I, Generation and application of ultrashort, laser-produced X- ray pulses, 1993-1995;
- > CNR institutional projects on *High power density laser-matter interactions*, 1989-1996.

CONFERENCES AND WORKSHOPS

More than 70 oral and invited presentations at international conferences and workshops.

PUBLICATIONS

Author of 315 publications (Source ISI Web of Science) including more than 220 articles on **refereed** (JCR) journals (as of May 2024) with more than 6000 citations. H-Index: 45 (G. Scholar) H-Index: 35 (ISI WOS)

EDUCATION AND TRAINING

PhD: (1990-2004) 1994: Ph.D. in Plasma Physics and D.I.C (Imperial College of Science technology and Medicine, University of London;

Laurea: (1983-1989) Laurea in Fisica, Università degli studi di Pisa, Laurea in Fisica (Università di Pisa);


OTHER POSITIONS, SCHOLARSHIPS AND AWARDS: EU Marie Curie Fellowship at Imperial College, London, UK, 1995 • Scholarship of the Italian Space Agency at IFAM-CNR, Pisa, 1994 • Scholarship of the National Research Council at l’Imperial College di London, UK, 1993-94 • Research Associate at Imperial College, London, UK, 1993 • Scholarship of the National Research Council at IFAM-CNR, Pisa, 1991-92 • Scholarship of the National Research Council at Imperial College di London, UK, 1991.


MAIN RESEARCH FIELDS: Radiation Sources • High Power Laser Interaction with Matter • X-Ray Emission From Laser Produced Plasmas – X and Gamma Ray Generation and Applications • High Energy Astrophysics.


RESEARCH INTERESTS: Ultra Short, Ultraintense Laser Plasma Interactions • E.m. wave propagation • Atomic physics of ionised species • Collective phenomena and instabilities • Inertial confinement fusion related studies • X-ray generation and characterisation • Particle acceleration in laser-matter interactions • X- ray and gamma ray optics • Plasma acceleration of particles • Dosimetry • Radiobiology.

Master and PhD supervision: more than 20 Master and PhD Theses Supervision

REVIEWER ROLE

 **JOURNALS** Member of the Editorial Board of “High Power Laser Science and Engineering”

 since 1997 *Referee of Phys. Rev. Lett., Phys Rev. E*

 since 2008 *Outstanding Referee of the American Physical Society (APS).*

nature since 2010, *Referee of Nature, Nature Communications, Nature Physics, Scientific Reports.*

Other referee roles: *Physics of Plasmas, Laser and Particle Beam, New J. Physics ed altre*