Curriculum vitae et studiorum

Dr. Marco BARBIERI

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Awards

- 2013 Rita Levi-Montalcini Grant awarded to Italian junior faculty members working abroad. The contract provided a three-year tenure-track position at the assistant professor level.
- 2009 Marie Curie Intra-European Fellowship within 7th Framework Program of the European Commission.
- 2007 Marcofabio Righini Award for the best Italian Ph.D. thesis in optics. The award is granted by the Istituto dei Sistemi Complessi and the Istituto della Struttura della Materia of CNR, the Italian National Research Council.

Research Activities

2019 - present	Full Professor Dipartimento di Scienze, Università degli Studi Roma Tre, Rome, Italy
2017 - present	Associate Researcher Istituto Nazionale di Ottica, Consiglio Nazionale delle Ricerche, Florence, Italy
2017 - 2019	Associate Professor Dipartimento di Scienze, Università degli Studi Roma Tre, Rome, Italy
2014 – 2017	Ricercatore a Tempo Determinato - Fixed-term Assistant Professor Dipartimento di Scienze, Università degli Studi Roma Tre, Rome, Italy
2013 – 2014	Fixed-term departmental lecturer Department of Physics, University of Oxford, UK
2011 – 2013	Post-doctoral fellow in "Coherent control for quantum photonics circuits" Ultrafast quantum optics and metrology group, University of Oxford, UK Director: Prof. I. A. Walsmley
2008 – 2011	Post-doctoral fellow in "Quantum state manipulation of light in the mesoscopic regime" Quantum optics group of the Laboratoire Charles Fabry de l'Institut d'Optique (LCF-IO), Palaiseau, France. Directors: Prof. Ph. Grangier, Prof. R. Tualle-Brouri.
2006 – 2008	Post-doctoral fellow in "Quantum computing by measurement-induced nonlinearities" Quantum Technology Lab of the University of Queensland, Brisbane, Australia. Director: Prof. A. G. White.
Education	
2003 - 2006	Ph.D. in physics, thesis on "Hyperentangled two-photon states for quantum information and

nd nonlocality tests"

Quantum optics group of Sapienza Università di Roma, Rome, Italy.

Supervisors: Prof. F. De Martini and Prof. P. Mataloni

1998 - 2003Master's degree in physics

Università degli Studi di Bari, Italy, final mark 110/110 cum laude

Master's thesis in the quantum optics group in Rome. Supervisors: Profs. V. Berardi (Università di Bari), F. De Martini and P. Mataloni.

Teaching

Courses

- 2022 present Teacher of Mathematics first year, Bachelor's in Environmental Science and Bachelor's in Optometry at Università Roma Tre.
- 2017 present Teacher of Electromagnetism and Optics second year, Bachelor's in Optometry at Università Roma Tre.

Supervision of Ph.D. students

2023 - 2025	Supervisor of Gabriele Bizzarri, Università Roma Tre
2017 - 2020	Supervisor of the Ph.D. thesis of Valeria Cimini, Università Roma Tre
2016 – 2019	Supervisor of the Ph.D. theses of Luca Mancino, and Emanuele Roccia, Università Roma Tre Secondary supervisor of the Ph.D. theses of Iryna Miatka and Camillo Tassi, Università Roma Tre

Supervision of Master's and Bachelor's students

Laurea in Ottica e Optometria, Università Roma Tre: Aurora Bruno, Chiara Casucci, Miriana Colasanti, Michela Spinelli (2023); Angelica Dilernia, Eleonora Piacentini (2022); Vittorio Cinque, Adele Erculei, Rousalia I. Toreva (2021); Denise Cossu (2020); Diego Acciaccarelli, Giorgia Grossi, Susanna La Porta (2018); Simona De Paulis (2017).

Laurea in Fisica, Università Roma Tre: Giorgia Grossi (2022), Vincenzo Citro (2021).

Laurea Magistrale in Fisica, Università Roma Tre: Walter Zedda (2021), Matteo Altorio (2016); Sapienza Università di Roma: Michele M. Feyles (2018), Federico Centrone (2017), Luca Mancino (2016).

Laurea in Ingegneria Informatica, Università Roma Tre: Lorenzo Giusti (2018).

Other duties

2016	Teacher of the "Quantum optics and quantum information" module of the on-line modern physics course, organised by the Ministry of Education, University, and Research (MIUR) for high-school teachers.
2015 – 2020	Member of the Teaching Board of the Doctoral School in Materials Science, Nanotechnologies and Complex Systems at Università Roma Tre.

Community service

Service roles in the department

2023-2026	Coordinator of the Teaching Panel of the Doctoral School in Condensed Matter and Nanotechnologies
2018-2025	Coordinator of the Teaching Panel of the degree in Optics and Optometry
2016-2018	Member and, since 2017, Coordinator of the Departmental Commission for Educational Orientation

Editorial duties

Referee for peer-reviewed journals: AAAS (Science, Science Advances), APS (Physical Review A, Physical Review Letters, Physical Review X), IOP (New Journal of Physics, Quantum Science and Technology), NPG (Nature, Nature Communications, Nature Photonics, Scientific Reports), OSA (Optica, Optics Express, Optics Letters).

Publications

Summary

99 articles published in peer-reviewed journals, including:

1 Science, 1 Nature Photonics, 1 Nature Physics, 1 Nature Chemistry, 1 Proceedings of the National Academy of Science, 3 Nature Communications, 1 Science Advances, 3 Nature Partner Journal Quantum Information, 2 Optica, 22 Physical Review Letters, 1 PRX Quantum