

## Curricul Vitae: De Giorgi Milena

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### AWARDS AND RECOGNITIONS

1999 - Premio per giovani ricercatori dell'Istituto Nazionale di Fisica della Materia

### MAIN ITALIAN AND INTERNATIONAL PROJECTS

2005-2008: STREP Project, DOMINO, Grant agreement ID: 017383, Italian Coordinator.  
2007-2013: Progetto PON RICERCA E COMPETITIVITÀ, Aerocomp – “Studio Preliminare di Materiali Nanocompositi per Applicazioni Aeronautiche” - DM48391, Project Manager for CNR  
2011-2013: PONA3\_00362 BEYOND NANO, Italy.  
2012-2017: ERC StG (consolidator) POLAFLOW, “Polariton condensates: from fundamental physics to quantum based devices”, Grant agreement ID: 308136  
2017-2019: ERC-Proof of Concept, ElecOpteR, “Electro-optical polariton router”, Grant agreement ID: 780757  
2017-2019: Fondazione CON IL SUD – Grant: Brain to South, Progetto LOCALITIS - Localized Light for Transport of Informations  
2017-2019: MAECI - Progetti congiunti nell'ambito del Programma di Cooperazione Scientifica e Tecnologica tra Italia e Canada 2017-2019  
2017-2020: MIUR, Decreto Direttoriale n. 3449, Progetto TECNOMED - Tecnopolo di Nanotecnologia e Fotonica per la Medicina di Precisione  
2019-2023: MIUR – PRIN ID: 2017P9FJBS, INPhoPOL - Interacting Photons in Polariton Circuits  
2022-2025: PNRR, I-PHOQS Project (ID IR0000016) - Missione 4, “Istruzione e Ricerca” - Componente 2, “Dalla ricerca all'impresa” - Linea di investimento 3.1, “Fondo per la realizzazione di un sistema integrato di infrastrutture di ricerca e innovazione”, finanziato dall'Unione europea – NextGenerationEU”  
2022-2025: PNRR, NQSTI Project (PE00000023) - Partenariato Esteso nell'ambito di intervento “4. Scienze e Tecnologie Quantistiche”. Missione 4 Componente 2 Investimento 1.3  
2023-2027: HORIZON-EIC-2022-PATHFINDER CHALLENGES EU project - Quantum Optical Networks based on Exciton-polaritons – (Q-ONE), No. 101115575  
2024-2028: EIC-2023-Pathfinder Open EU project - Neuromorphic Polariton Accelerator – (PolArt) No. 101130304

### EDUCATION

1997 – 2000 PhD Department of Physics, University of Lecce, Italy  
1997 Master Department of Physics, University di Lecce, Italy

### PREVIOUS POSITIONS

2023 – Research manager at Institute of Nanotechnology, National Research Council (CNR), Italy  
2013 – 2022 Senior Research at Institute of Nanotechnology, National Research Council (CNR), Italy  
2001 – 2013 Researcher at Institute of Nanotechnology, National Research Council (CNR), Italy  
1999 – 2000 Marie Skłodowska-Curie fellowship, Ludwig-Maximilians of Munich, Germany  
1997 – 1998 Fellowship, Laboratory of Photonics and Nanotechnology, Institute National of Physics of Matter, Italy.  
1997 Stage at University pf Modena, Italy.

#### SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2011 – present Supervised 1 Ph.D. students (F. Todisco) and co-supervised 3 Post Docs (G. Rainò, G. Morello, D. Tari); University of Salento – (CNR), Italy

#### ORGANISATION OF SCIENTIFIC MEETINGS

- 2019 Scientific Secretary of the Conference TERAMETANANO-4 (Intern. Conf. on Terahertz Emission, Metamaterials and Nanophotonics: <https://events.mifp.eu/terametanano-2019/>, Italy)
- 2018 Member of the Program Committee of the PLASMONICA2018, International Conference of Plasmonics: <http://www.plasmonica.it/2018/>, Italy
- 2017 Member of the organising committee of the PLASMONICA2017 International Conference on Plasmonics: <http://www.plasmonica.it/2017/>, Italy

#### INSTITUTIONAL RESPONSIBILITIES

- 2019 - Member of the National Examination Committee for permanent positions in the CNR, National Research Council, Italy
- 2019 - Member of the National Examination Committee for Research positions in the CNR, National Research Council, Italy
- 2001 – Member of the National Examination Committee for different positions in the CNR, National Research Council, Italy
- 2015 – Member of the Board of the *Photonics and Optoelectronic* Facility, Institute of Nanotechnology, National Research Council (CNR), Italy

#### REVIEWING ACTIVITIES

- 2020 – Member of the Editorial Board, Special Issue on Nanotechnology, IOP Science Group.
- 2011 – Reviewer of peer reviewed journals such as Applied Physics Letters, Physical Review Journal, Nature Journals

#### TEN YEARS TRACK-RECORD

De Giorgi Milena is author of more than **200 articles** published in international scientific journals based in the peer-review, which altogether received more than **8797 citations**, resulting in an **h-index of 47**. Among many such publications stand out **2 Nature (IF 42)**, **1 Nature Materials (IF 39)**, **1 Nature Nanotechnology (IF 33)**, **2 Nature Physics (IF 20)**, **4 Nature Photonics (IF 31)**, **3 Advanced Materials (IF 27)**, **6 Nature Communications (IF 12)**, **4 Science Advances (IF 13)**, **4 Light Science & Application (IF 14)**, **7 ACS NANO (IF 14)**, **2 Optica (IF 11)**, **1 PNAS (IF 9)** and **5 Physical Review Letters**. She contributed to the writing of **3 books**. She presented in person her work different conferences as oral contribution.

#### MAIN RESEARCH ACTIVITY

Researcher Manager at the CNR-NANOTEC and co-head of the photonics facility of the Nanotechnology Institute, she has more than twenty years of experience in the study of linear and nonlinear optical properties of nanostructures and in the last years, her research activity has been focused on the study of quantum

polariton systems and new materials for their potential application as single photon sources, topological structures and in biotechnology.

She is a member of the Governing Board of the Integrated infrastructure initiative in PHotonic and Quantum Sciences (I-PHOQS) project as well as responsible for various project activities at CNR Nanotec laboratories.