



Name: Maria Angela

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Date of Birth: 07/02/1965

Position: Researcher (tenure track position)

Dept.: Department of Sciences and Methods for Engineering

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Education and Training:

- **PhD in Industrial Innovation Engineering** obtained at the University of Modena and Reggio Emilia in the 2021, presenting a dissertation in the field of the Industrial Symbiosis
- **Master Degree in Physics** obtained at the University of Ferrara in the academic year 1990/1991, presenting a dissertation in the field of the Condensed Matter Physics, with a final grade of 107 out of 110.
- **Master in “Scientific journalism and science communication”** obtained at the University of Ferrara in the academic year 2012/2013 presenting a dissertation in the field of the risk communication, with a finale grade of 30/30.

Work experience:

07/2024 →	Researcher (tenure track position - art. 24 comma 3 Law 30.12.2010, n. 240, and Law 79/2022) at the Department of Sciences and Methods for Engineering (University of Modena and Reggio Emilia)
01/2022 → 06/2024	Researcher (t.d. art. 24 c. 3 lett. A) at the Department of Sciences and Methods for Engineering (University of Modena and Reggio Emilia)
01/2021 → 12/2021	Research fellow at the EN&TECH research center (University of Modena and Reggio Emilia) in the framework of the <i>WE LIGHT - WEearable LIGHTing for smart apparels</i> Project, funded by ERDF 2014-2020
11/2017 → 12/2020	PhD student in Industrial Innovation Engineering (cycle XXXIII) Department of Sciences and Methods for Engineering (University of Modena and Reggio Emilia)
08/2016 → 10/2017	Research fellow at the EN&TECH research center (University of Modena and Reggio Emilia) in the framework of the <i>LUME PlannER</i> project (<i>Tools for planning sustainable trips to historic sites, museums, arts and cultural events in Emilia Romagna Project management</i>) – Project funded by ERDF 2014-2020
2014 → 2016	EU R&D Projects Consultant and Project manager
09/2006 → 12/2012	Co-founder and R&D manager at CPOWER SRL, concentrating PV modules developer and producer, spin-off of the University of Ferrara.
2004 – 2006	Research fellow in photovoltaic concentrating cells and systems at the University of Ferrara.
2004	Consultant contract in the framework of the EU funded project IDEOCONTE (FP5) at the University of Ferrara

01/2003 - 12/2003	Research and technical manager at the INFN (now part of the CNR – Italian National Research Council)
04/2001 – 12/2002	Technical manager, responsible for the <i>Design and characterization of multi-junction and high efficiency concentrator solar cells suitable for solar energy systems</i> at MEEC SRL - Ferrara – Italy
1999 – 2000	Research fellow at the INFN (now part of the CNR – Italian National Research Council) in <i>Design and characterization of semiconductor sensing devices</i>
1996 – 1998	Fellowship at the INFN (now part of the CNR – Italian National Research Council) in the framework of the EU funded project COSST (FP5)
1995	Fellowship in <i>Thick film inks</i> funded by Chimet SpA (Arezzo-Italy), at the Physics Dept. of the University of Ferrara,
09/1994 – 02/1995	Fellowship in <i>Thick film sensors</i> , funded by Beghelli SpA (Montevoglio – BO -Italy)
10/1992 – 1994	Contract employer at Helios Technology (Carmignano di Brenta (PD) – Italy), sector: PV cells and modules manufacturer

Teaching experience:

A.Y. 2021/2022	Invited professor at the UNIVERSIDADE DO VALE DO RIO DOS SINOS (Brasil) (Production and Systems Engineering Graduate Program) - course <i>Advanced Topics in Production Engineering: industrial symbiosis</i> . Professor at the University of Modena and Reggio Emilia for the courses: - <i>Design and management of service facilities</i> - Master degree in Management Engineering. - <i>Soft skills on sustainability – Module: The industrial symbiosis approach as sustainable industrial innovation</i> - Bachelor degree in Management Engineering - <i>Mechanical plants</i> - Bachelor degree in Mechatronic Engineering - <i>Sustainable and Ergonomic Production Systems</i> - Bachelor degree in Mechatronic Engineering
A.Y. 2020/2021	Temporary professor at the University of Modena and Reggio Emilia (Bachelor degree in Engineering for Smart Industry) - course <i>Safety of production systems, machines and robots</i> .
Academic years 2021/2022 - 2020/2021 - 2019/2020- 2018/2019 2017	Temporary professor at the University of Modena and Reggio Emilia (Bachelor degree in Mechatronic Engineering) responsible for the practice section of the course <i>Mechanical plants</i> . Temporary professor for the course “ Industry 4.0 skills for production planning technicians” – Modules “ Supply cycle ” and “ Supply chain configuration ” – at CIS Scarl, Scuola per la gestione d’Impresa (Reggio Emilia)
A.Ys. 2007/2008- 2006/2007	Temporary Professor for the course “Thick film Technology” (Master degree in Physics) at the University of Ferrara
A.Ys. 2000/2001- 1998/1999-1996/1997	Responsible of the Condensed Matter tutorial group for bachelor degree in “Metodologie Fisiche” (Physics Methodology)

1991/1992

Mathematics teacher at the high-school

Co-author of scientific publications on international and national journals as well as conference proceedings. The updated list is available at:

<http://personale.unimore.it/rubrica/pubblicazioni/mbutturi>

Reviewer for international journals, among which:

Science of the Total Environment; Journal of Cleaner Production; Journal of Industrial Ecology; Current Research in Environmental Sustainability; Sustainable Production and Consumption; Clean Technologies and Environmental Policy; Resources, Conservation & Recycling Advances; Energy Engineering; Energy Efficiency; Energy Strategy Reviews; Energy Conversion and Management; Energies; Energy & Buildings; Environmental Progress & Sustainable Energy; Environmental Science and Pollution Research; Frontiers in Sustainability; Environmental Health Inside; Environment, Development and Sustainability; Environmental Impact Assessment Review; Applied Mathematical Modelling; Mathematical Problems in Engineering; Computers in Industry; Journal of Open Innovation: Technology, Market, and Complexity; Omega; Heliyon; Sustainability; Recycling; Social Sciences; Water; Proceedings of the IFAC World Congress; Chemical Engineering Transactions.