

## PERSONAL INFORMATION



**Eng. MARIANGELA QUARTO, Ph.D.**

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University of Bergamo  
Department of Management, Information and Production  
Engineering  
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## POSITION HELD

From November 2021	<b>Assistant Professor</b> at the Department of Management, Information and Production Engineering of University of Bergamo
From January 2022	<b>Member of the Giunta per la Qualità dell’Insegnamento e dell’Apprendimento</b> of the University of Bergamo
From March 2016	<b>Membro dell’Associazione Italiana per le Tecnologie Manifatturiere (AITeM)</b>
From June 2021	<b>Member of Scientific Committee of World Congress on Micro and Nano Manufacturing (WCMNM)</b>
From November 2019	<b>Member of International Institution for Micro Manufacturing (I2M2)</b>
1-20 May 2022	<b>Visiting teaching</b> at Institute for Control Engineering of Machine Tools and Manufacturing Units of ISW Universität Stuttgart (Germany)

## EDUCATION

October 2015 – May 2018	<b>Doctoral Research in Economics and Management of Technology (DREAMT – XXXI cycle)</b> , at University of Pavia and University of Bergamo with the thesis “ $\mu$ EDM sustainability: economical optimization and machinability of advanced materials” – Aree CUN 9 e 13 Supervisor: Prof. Giancarlo Maccarini
November 2016	<b>Professional Engineering Qualification</b>
October 2017 – March 2018	<b>Visiting period at the Technical University of Denmark (DTU)</b> at Manufacturing Engineering section of Mechanical Engineering Department. Supervisor: Prof. Giuliano Bissacco

September 2012 – December 2015

**Master Degree in Management Engineering (D.M. 270/04)** at University of Bergamo, with the thesis: “Caratterizzazione geometrica di micro-fori ottenuti mediante EDM”  
Supervisor: Prof. Gianluca D’Urso

September 2009 – September 2012

**Bachelor Degree in Management Engineering** at University of Bergamo, with the thesis: “Nuove direzioni nel settore edile: verso il Green Building e le case autonome”  
Supervisor: Prof. Tommaso Minola

#### REFeree ACTIVITY

Journal of Materials Processing Technology; CIRP Journal of Manufacturing systems and Technology, Computers & Industrial Engineering; Engineering Science and Technology an International Journal; Advances in Manufacturing; Transaction of the Canadian Society for Mechanical Engineering; Materials; Processes; Micromachines; SN Applied sciences; Applied Sciences; Coatings; Heliyon; Journal of Materials Processing Technology; Materials & Design

#### EDITORIAL BOARD

Member of Topical Advisory Panel for journal Micromachines (MDPI).  
Member of Reviewer Board for journal Processes (MDPI).

#### RESEARCH ACTIVITY

- Study of drilling and milling operations through micro-electro discharge machining (EDM) on metallic and ceramic materials and process optimization both from an economic and technological point of view.
- Development of systems for the acquisition and analysis of signals relating to process parameters.
- Definition of optimization and forecasting algorithms in the field of micro-EDM, Friction Stir Welding-FSW, machining for chip removal and FDM.
- Use of a consumer machine for Fused Deposition Modelling (FDM) technology of polymeric materials, for the deposition of filaments contained in metal powder (AISI 316L and 17-4PH) by conducting optimization studies of the printing parameters and evaluation of the mechanical properties. This could allow the creation of components with high added value, in metal material, completely customized at reduced costs.

#### SCIENTIFIC PROFILE

Scholar ID: [Link](#)

Scopus ID: [56903928500](#)

ORCID: [0000-0002-5048-2314](#)

WoS: [ABA-6761-2021](#)

18/05/2022 Bergamo

Mariangela Quarto

