

Martina Montinaro

PERSONAL INFORMATION

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in <https://www.linkedin.com/in/martina-montinaro/>

Sex Female | Nationality Italian

WORK EXPERIENCE

June 2024 – present

Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici Senior Scientific Project Manager

Management of EU, national and regional scientific projects: project writing, coordination and daily implementation. Fund raising activities. Stakeholders' involvement and events organization. Communication and dissemination of scientific results.

DFV Group

Innovation and Sustainability Manager

January 2022 – May 2024

Strategic Planning and Innovation: manage and implement business innovation plans and technical-scientific projects related to advanced manufacturing technologies; Open Innovation and Technology Transfer strategies.

Sustainability and Ecological Transition: coordinate and develop ESG Reporting; corporate ecological transition strategies; carbon account and sustainability communication; implement industrial eco-design and scouting activities of sustainable materials, innovative processes and virtuous relationships for increasing business competitiveness and decreasing carbon footprint.

Optimization of Industrial Processes: scientifically monitor industrial processes, seek optimization solutions and support the activities of the operations and commercial departments.

Relationships and Collaborations: build effective relationships with value chain stakeholders, coordinate and collaborate with public and private research institutions to develop and codify company scientific knowledge; explore Open Innovation opportunities.

Communication and Training: disseminate scientific results and teach technical topics to employees, students and technicians, while representing the company technically and in governance in associations, boards and committees.

Results achieved

Introduction of **sustainable innovations and optimizations** in several production processes, achieving significant goals concerning energy self-supply, water withdrawal, energy intensity, packaging environmental impact, carbon emissions (see DFV Group Sustainability Reports for details: <https://dfvgroup.it/sostenibilita-e-innovazione/makeit/>).

Realization of a nationally awarded **by-product valorization project** (<https://www.ecocamere.it/elenco/best-practices>).

September 2017 - December
2021

Research & Development Manager

Define and implement the **R&D strategy**; manage **industrial research projects** and oversee technical-scientific initiatives related to surface treatments on aluminum, ensuring alignment with corporate goals and budgets; identify sustainable solutions and innovative materials for surface treatments; **scout and implement innovative technologies for aluminium coating**. Build and maintain **effective relationships with value chain stakeholders**, including suppliers, partners, customers and research institutions, to foster collaboration and drive **R&D synergies**. Facilitate the **transfer of new technologies** from research to production, **manage intellectual property** and ensure the dissemination of technical knowledge across the organization.

Results achieved

Results achieved **Design and implementation of a new decoration process** for aluminum laminates and profiles with an innovative technology that involves sustainable materials and processes. Start-up of a dedicated industrial plant and creation of 2 new product lines (<https://www.formeskin.it/en/>).

Board Memberships

April 2024 – present **Member of the Advisory Board Federmanager Puglia**
Setting the strategic direction and policies for Federmanager Puglia, ensuring that the organization aligns with its mission to represent and support industrial managers in the region. Overseeing various programs and initiatives related to professional development, innovation, digital transformation and sustainability within the industrial sector. Representing the managerial community, advocating for their interests in areas such as labor relations, legal assistance, social security and health services. Engaging with external stakeholders (including public institutions, industry bodies and other associations) to advance the interests of association members.

January 2019 – present **Member of the technical-scientific Committee of the Industrial Short Master *Protection and finishing of metal surfaces. Design and technology for iron and aluminum* @Politecnico di Milano**
Developing the Master's curriculum, ensuring it covers all essential aspects of metal surface protection and finishing, including both theoretical knowledge and practical skills necessary for professionals in the manufacturing industry. Delivering courses and conducting training sessions, focusing on the latest technologies and design methodologies for iron and aluminum surfaces. Provide mentorship to students, helping them understand complex industrial issues and develop practical solutions. Facilitating collaboration between the Master's program and over 20 companies in the specific sector, as well as 5 Italian universities. This includes organizing industry projects, internships and networking opportunities for students to gain real-world experience. Developing research activities related to metal surface technology, contributing to the advancement of the field, encouraging innovation and the application of new technologies in industrial processes. Ensuring the quality and relevance of the program by regularly reviewing and updating course content, incorporating feedback from industry partners and academic institutions. <https://www.poliefun.com/ism11/>

January 2019 – May 2024 **Member of the AITAL Board of Directors**
The Board of Directors of AITAL, an Italian companies association in the aluminum surface treatment sector representing about 80% of the national production capacity, conducts various activities on behalf of the associated companies. Some examples: research activities relating to all aspects of the aluminum supply chain in synergy with suppliers and with public and private research institutes; scientific dissemination of the results obtained in the working groups and organization of conferences and training courses; Technology Transfer activities; environment defense and study of problems related to environmental regulations. <https://www.aital.net/>

January 2020 - December 2023 **Member of the Qualideco Technical Committee, as Italian delegate**
QUALIDECO is an international certification institute dealing with the certification of the decoration processes of pre-coated aluminum substrates. It conducts control functions over the national certification bodies, it coordinates certification renewals and settles new procedures for innovative decoration technologies. It also deals with the administrative and legal issues of all the countries involved and leads several research activities concerning both new materials and new processes. <https://www.qualicoat.net/main/home.html>

Teaching and consulting

- Technical-managerial consulting on technology transfer projects: **certified Innovation Manager, listed in the Ministry of Enterprises and Made in Italy (MIMIT) registry** of certified experts in technological innovation.
- **Cultrice della Materia @Politecnico di Bari** - Department of Mechanics, Mathematics, and Management. Collaboration in the **Sustainable Manufacturing field: teaching assistance, research support, examination and assessment, academic advisory.**
- **Lecturer @European Institute of Innovation for Sustainability (EIS) in the Circular Economy Management master program** (<https://www.eiis.eu/circular-economy-management>).
- **Lecturer @Industrial Short Master Protection and finishing of metal surfaces. Design and technology for iron and aluminum, @Politecnico di Milano** (<https://www.poliefun.com/industrial-short-master-10/>)
- Lectures for **companies training projects.**
- **Teaching at Universities:** lectures, co-participation in courses and master programs for: Politecnico di Bari, Politecnico di Milano, Università del Salento.
- Teaching at secondary schools: training in school-work alternation projects.

EDUCATION AND TRAINING

October 2020 - December 2021

Competencies

Executive Master in Business Administration (MBA)

Bologna Business School (BBS) –EQUIS – EFMD accredited and ranked among the **best Business Schools in the world** by the QS World University Rankings.

Business strategy; Financial and Management Accounting; People Management; Marketing; Corporate Finance; Operations and Supply Chain; Global Sales Management; Digital Transformation; Business Planning; Project Management.

March 2014 – July 2017

PhD in Physics and Nanoscience

@University of Salento - **CNR-Nano Institute of Nanosciences** - Soft Matter Nanotechnology Division - Italy

@**King's College London** - Complex Nanophotonics Research Group - UK

Experimental study of the electrospinning process aimed at the **production of polymeric nanofibers**. Optical study and characterization of plastic nanofibers. Characterization of **laser devices based on plastic nanofibers**. The PhD was developed as part of the NANO-JETS - Next-generation polymer nanofibers: from electrified jets to hybrid optoelectronics project, funded by the European Research Council: **ERC Ideas Starting Grant** no. 306357 (www.nanojets.eu).

Experimental research thesis entitled *Random polymer electrospun nanofiber mats for lasing devices*.

Final judgment: **Excellent**.

October 2011 – October 2013

Master's Degree in Physics of Matter and Biomedical and Environmental Applications

University of Salento - **CNR-Nano Institute of Nanosciences** - Soft Matter Nanotechnology Division - Italy

Experimental thesis project: *Realization of flexible piezoelectric devices based on polymeric nanofibers*. **Graduation grade: 110/110 cum laude**

ADDITIONAL INFORMATION

Publications

- M. Montinaro, *Innovative technologies in aluminium industry for driving the decarbonization process and achieving a business jolting*, 12th Aluminium Two Thousand World Congress Conference Proceedings, ISBN 978-88-87971-04-0, (2023). **Paper awarded Best Paper in the category "Innovative Technologies"**.
- G. Morello, M. Moffa, M. Montinaro, A. Albanese, K. Kazlauskas, S. Jursenas, A. et al., *Tuneable optical gain and broadband lasing driven in electrospun polymer fibers by high dye concentration*, **J. Mater. Chem. C**, (2022).
- M. Montinaro, V. Resta, A. Camposeo, M. Moffa, G. Morello, L. Persano et al., "Diverse Regimes of Mode Intensity Correlation in Nanofiber Random Lasers through Nanoparticle Doping", **ACS Photonics**, 5 (2018), 1026-1033.
- V. Resta, A. Camposeo, M. Montinaro, M. Moffa, K. Kazlauskas, S. Jursenas et al., "Nanoparticle-doped electrospun fiber random lasers with spatially extended light mode", *Optics Express*, 25.20 (2017), 24604-24614.
- L. Persano, A. Camposeo, A. Terentjevs, F. Della Sala, E. Fabiano, M. Montinaro et al. "Electrostatic mechanophores in light-emitting piezo-polymer nanowires", **Advanced Materials**, 29.29 (2017).
- A. Camposeo, M. Gaio, M. Moffa, M. Montinaro, M. Castro-Lopez, V. Fasano et al. "Light coupling in polymer nanofibers: from single-photon emission to random lasing". Proceedings of SPIE, 10101, 101010E (2017)
- L. Persano, M. Moffa, V. Fasano, M. Montinaro, G. Morello, V. Resta et al., "Optimization of electrospinning techniques for the realization of nanofiber plastic lasers", Proceedings of SPIE, 97450, 97450R (2016).
- L. Persano, M. Montinaro, L. Romano, A. Portone, D. Pisignano, "Piezoelectricity in electrospun polymer nanofibers", Fifth International Workshop on Advanced Nano- and Biomaterials and Their Device Applications (2016), "Program and Abstract Book"; Editor Prof. Ilena Rau; ISSN: 1844-8321.
- V. Resta, V. Fasano, M. Moffa, G. Morello, M. Montinaro, A. Portone et al., "From electrified jets to light-emitting polymer nanofibers: 2015 Results from the NANO-JETS ERC Project" (2016).
- M. Montinaro, V. Fasano, M. Moffa, A. Camposeo, L. Persano, M. Lauricella, S. Succi and D. Pisignano, "Sub-ms dynamics of the instability onset of electrospinning", *Soft Matter*, 11 (2015), 3424-3431.
- A. Camposeo, M. Moffa, G. Morello, L. Persano, V. Fasano, M. Montinaro, V. Resta, I. Coluzza, G. Pontrelli, M. Lauricella, S. Succi and D. Pisignano, "From electrified jets to light-emitting polymer nanofibers: 2014 Results from the NANO-JETS ERC Project" (2015).

Posters and talks

- L. Persano, M. Montinaro, L. Romano, A. Portone, D. Pisignano, "Piezoelectricity in electrospun polymer nanofibers", invited talk for the international workshop "Fifth International Workshop on Advanced Nano- and Biomaterials and Their Device Applications", 20-25 September 2016, Constanta;
- M. Montinaro, V. Fasano, M. Moffa, A. Camposeo, L. Persano and D. Pisignano, "Study of the electrospinning instabilities at high temporal resolution for tailoring nanofiber devices design and production", poster for "MiNaB-ICT: International Workshop on Micro-Nano-Bio-ICT Convergence: Current Research and Future Trends", Otranto, 13-15 July 2015;
- M. Montinaro, V. Fasano, M. Moffa, A. Camposeo, L. Persano and D. Pisignano, "On the dynamics of electrospun jets studied at sub-ms timescale: impact on nanofiber processing", poster for the international workshop "Electrospin 2016", Otranto, 28 June – 1 July 2016;
- V. Resta, A. Camposeo, M. Moffa, M. Montinaro and D. Pisignano, "New evidences of complex behavior in lasing electrospun nanofibers", poster for the international workshop "Electrospin 2016", Otranto, 28 June – 1 July 2016;
- L. Persano, M. Montinaro, L. Romano, A. Portone and D. Pisignano, "Piezoelectricity in electrospun polymer nanofibers: fundamental phenomena and applications", invited talk for the international workshop "Electrospin 2016", Otranto, 28 June – 1 July 2016;
- A. Camposeo, L. Persano, M. Moffa, V. Fasano, V. Resta, G. Morello, L. Romano, M. Montinaro, A. Portone and D. Pisignano, "New light emission and transport properties in electrospun nanofibers", invited talk for the international workshop "Electrospin 2016", Otranto, 28 June – 1 July 2016.

Industry: results dissemination and Open Innovation

- **Interview** by the magazine **La Rivista del Colore** on the project EcoBuilding, based on an **Open Innovation approach for the decarbonization of the Italian sector of aluminum surface treatments**: <https://www.larivistadelcolore.com/news/nella-filiera-dellalluminio-anche-la-verniciatura-deve-contribuire-a-ridurre-limpatto-sullambiente/>.
- **Interview** by the magazine **Verniciatura Industriale** on the project EcoBuilding, based on an **Open Innovation approach for the decarbonization of the Italian sector of aluminum surface treatments**: https://www.aital.net/a519/wp-content/uploads/2023/08/verniciatura_industriale_662.pdf. Full version published in the June 2023 issue of the magazine.
- **Interview** by Guida Finestra magazine on the project EcoBuilding, based on an **Open Innovation approach for the decarbonization of the Italian sector of aluminum surface treatments**: <https://www.guidafinestra.it/aluminium-ecobuilding-il-comparto-punta-al-carbon-free/>. Full version published in the March 2023 issue of the magazine: <https://drive.google.com/file/d/1lI9044rv0XCcYuJqwcMa3TclFw7jawUt/view?usp=sharing>.
- Recording of the RSM Sustainability Talk episode with my testimony as Sustainability Manager on the importance of **ESG reporting as a strategic tool for business growth**: <https://www.youtube.com/watch?v=h57vufb5XQA&t=1127s>
- Speaker at the workshop *The surface treatment's future. Less CO2, Energy, AI and Automation* of the Politecnico di Milano focused on technologies for the decarbonization of the metal surface treatment sector.

Training courses

- **Women on board – Federmanager, ManagerItalia – September-December 2022**
Specific training course to facilitate women's access to the Boards of Directors teams of public and private companies.
- **Innovation Management (MOOC Course) – Rotterdam School of Management, Erasmus University (RSM), March-April 2020**
- **Technology Brokering - Sportello Matematico per l'Innovazione e le Imprese** (network: **EU-MATHS-IN - European Service Network of Mathematics for Industry and Innovation**), CNR-IAC (Istituto per le Applicazioni del Calcolo), Roma – Italy, July- August 2019

Supervised thesis projects

- **Co-supervisor of the Industrial PhD Thesis** *Optimization of the production cycle in the field of surface coatings of aluminum profiles*, Engineering of complex systems, University of Salento, XXXVIII Cycle.
- **Co-supervisor of the Industrial PhD Thesis** *Finite element modeling of the extrusion process of aluminum alloys*, Engineering of complex systems, University of Salento, XXXVIII Cycle.
- **Co-advisor of the master's degree Thesis** *Life Cycle Assessment of the powder-on-powder Ezy wood effect decoration on aluminium window frames* - Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Master of Science in Materials Engineering and Nanotechnologies.
- **Co-advisor of the Bachelor's degree Thesis** *ESG: PERCORSO VERSO LA SOSTENIBILITÀ* - Politecnico di Bari, Dipartimento di Meccanica, Matematica e Management – DMMM.

Honors and awards

- **Best research paper award for the category "Innovative Technologies"** won by the paper *"Innovative technologies in aluminium industry for driving the decarbonization process and achieving a business jolting"* by Martina Montinaro, Aluminium Two Thousand World Congress & ICEB 2023, September 2023, ISBN Conference Proceedings 978-88-87971-04-0 (<http://www.aluminium2000.com/index.php/it/component/content/article/2-uncategorised/159-awarded-papers-2023>).
- **National best practice award won for a by-product valorization project** (<https://www.ecocamere.it/elenco/best-practices>).
- **National competition MIMPRENDO ITALIA 2015: industrial research project "Innovative techniques for the decoration of aluminum profiles"** developed for the company DFV srl, which was ranked among the 10 finalists out of 80 projects, reaching the **fourth place in the national final merit ranking**. Web: <https://www.mimprendo.it/>.
- **International Genetically Engineered Machine (Igem) international competition**, NickBusters project developed by a multidisciplinary team from the University of Salento (http://2013.igem.org/Team:UniSalento_Lecce#):
 - **Silver medal** in the 2013 European competition (European Jamboree, Lyon - France);
 - **Mark of the Rector** of the University of Salento during the Innovation Fair held in Lecce in November 2013.

Memberships

- Co-founder of the group **Chapter Puglia in the Alumni Association of the Bologna Business School**, a network of professionals who share the values of the business school and develop multidisciplinary projects of training, work and fun.
- **Co-founder of the BioBANG university association**, whose mission is the diffusion of scientific and technological research as a tool for growth and competitiveness in the industrial sector. The Association pursues the aims of promoting the development of a business culture, coaching and supporting the creation of new businesses and connecting different figures in the academic world, work and companies operating in the biotechnology field. Web: <http://www.biobang.org/>

June 19, 2024