

Giulia Massaglia is a Biomedical Engineering, Ph.D. In Electronic Engineering.

She is a PostDoc Researcher, operating at Politecnico di Torino and at the Chilab Laboratory of Politecnico di Torino.

In 2013 she won a research grant on Development of Polymeric and Ceramic nanofibers from Politecnico di Torino in collaboration with Istituto Italiano di Tecnologia (IIT), Center for Sustainable Future Technologies (CSFT@Polito).

In 2017 she obtained her Ph.D. in Electronic Engineering cum laude from Politecnico di Torino. The Ph.D. was directly supported by the Italian Institute of Technology (IIT), in the frame of the Energy Research Platform of the CSFT in Torino. Her activity was focused on the Development of 1D, 2D and 3D nanostructured materials to obtain catalytic anodic and cathode electrode for renewable energy devices (*e.g.* Microbial Fuel Cells). Investigation of biological characterization of new materials to understand the biocompatibility for the bacteria, the proliferation and colonization of the materials by bacteria. She also focused on the development, improvement and electrical characterization of these bio-electrochemical devices.

After being engaged as research fellow at the Center for Sustainable Future Technologies (CSFT@Polito) of the Istituto Italiano di Tecnologia, in 2017 she won a Post-Doc Research grant at Politecnico di Torino, DISAT.

Her research activities are mainly focused on:

- Micro and Nano technologies,
- Electrospinning Technology
- Energy and Sustainability.
- Investigation on nanomaterials and their application in different fields, such as energy devices, tissue engineering and microfluidic devices.

She is author and co-author of 25 publications on highly ranked international Journals, 3 book chapters and several international conference proceedings, with a H-Index of 9 (Source SCOPUS, 05-2021).

She has worked as Researcher in national and international projects

- 2016 – 2018 _ MUES (Microbial Fuel Cells as Underwater Power Enablers for Sensors) funded by the Italian Ministry of Defence. Role: Research Fellow at Italian Institute of Technology
- 2014 – 2017 _ NICOP (New Catalytic Materials for Innovative Cathodes in Microbial Fuel Cells for Long-Term Energy Production in Marine Systems) funded by the Office of the Naval Research Global – ONRG. Role: Researcher at IIT
- 2014-2016_ MADE IN ITALY Progetto di Innovazione Industriale Nuove Tecnologie per Made in Italy 2014-2016. Study and Development of sensors in order to monitor all chemical elements in water, which can be nocive for the human health and all environment. Role: Researcher

She is currently involved as PostDoc Researcher at the Project SMART 3D (Piattaforma tecnologica Fabbrica Intelligente 2018-2019 Role: Post Doc Researcher at Politecnico of Torino)

She is currently involved in industrial collaborations aiming at developing new materials for micro-sensing.