

Hi, I'm Matteo Orlando

[Whoami](#)[Career](#)[Publications](#)[Projects](#)

What I studied

I received B.Sc Degree in Physics Engineering in 2015 and a M.Sc. degree in ICT for Smart Societies in 2018 with a thesis focused on designing and development of a self-configuring IoT smart-meter for monitoring the power grids and enabling novel services. Since October 2018, I joined the EDA group as a research assistant. I started my PhD in November 2019 focusing my research in the optimization of the placement of PV modules in the context of Renewable Energy Community.

Technical skills

Main

[Python](#)[REST API](#)[MQTT](#)[Microservices](#)[IoT](#)[Smart-Grid](#)

Other

[Javascript](#)[Astro](#)[Vue](#)[HTML & CSS](#)[MongoDB](#)[Docker](#)[Git](#)

My career

2012-2015

Politecnico di Torino

Bachelor degree in Physics Engineering

2015-2018

Politecnico di Torino

Master degree in ICT for Smart Societies with the thesis "Design and development of a novel smart-meter for improved Smart Grid management"

2018-2019

Politecnico di Torino

Assistant researcher for EDA group

2019-ongoing

Politecnico di Torino

PhD student in Computer and Control Engineering

My Publications

A novel Internet-of-Things infrastructure to support self-healing distribution systems

2018 International Conference on Smart Energy Systems and Technologies (SEST)

Read the full paper [here](#)

► Abstract

Engaging Users in Resource Ecosystem Building for Local Heritage-Led Knowledge

Sustainability-MDPI

Read the full paper [here](#)

► Abstract

Optimal configuration and placement of PV systems in building roofs with cost analysis novel Internet-of-Things infrastructure to support self-healing distribution systems

2020 IEEE 44th Annual Computers, Software, and Applications Conference (COMPSAC)018 International Conference on Smart Energy Systems and Technologies (SEST)

Read the full paper [here](#)

► Abstract

Design of District-level Photovoltaic Installations for Optimal Power Production and Economic Benefit

2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC)

Read the full paper [here](#)

► Abstract

A Smart Meter Infrastructure for Smart Grid IoT Applications

IEEE Internet of Things Journal

Read the full paper [here](#)

► Abstract

A Resources Ecosystem for digital and heritage-led holistic knowledge in rural regeneration

Journal of Cultural Heritage

Read the full paper [here](#)

Other projects I worked on

Ruritage

2018-2021

The RURITAGE project turns rural areas into laboratories to demonstrate natural and cultural heritage as an engine for regeneration. I was in charge of the development of the first version of the Ruritage Resource Ecosystem. This tool consisted in a full stack application that stored geographical data and metadata about the participants of the project and make it available to the public for visualization.

More info at ruritage-ecosystem.eu

Development of a wearable IoT device for Covid-19 early diagnosis.

2021

Cotutor of the thesis.

More info at [here](#)

Development of a wearable device for monitoring vital parameters: SpO2, heart rate and temperature.

2021

Cotutor of the thesis.

More info at [here](#)

Design and development of distributed software platform to gather, manage and visualize multimedia clinical files

2021

Cotutor of the thesis.

More info at [here](#)