

Lorenzo Bottaccioli, PhD

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SHORT BIO

Lorenzo Bottaccioli class '86 received his M.Sc. in Energetic and Nuclear Engineering with a thesis on energy communities in October 2014. In April 2018 he received his PhD Cum Laude in Computer Science at Politecnico di Torino. After, has been enrolled as Postdoctoral Research Fellow in the EDA Group at Politecnico di Torino. Now is enrolled as Assistant Professor in the Energy Center Lab and at DAUIN department of Politecnico di Torino. He is involved in several European Funded Projects focused on Smart Cities. His main research interests concern the development of co-simulation platform and simulation tools for smart energy systems.

EDUCATION

POLITECNICO DI TORINO

PHD IN COMPUTER SCIENCE

April 2018 | Torino, ITA

Vote: Cum Laude

MSc IN ENERGY AND NUCLEAR ENGINEERING

October 2014 | Torino, ITA

Vote: 106/110

UNIVERSITÀ DI PERUGIA

BS MECHANICAL ENGINEERING

April 2011 | Perugia, ITA

LINKS

Google Scholar: [Lorenzo Bottaccioli](#)

Github: [LorenzoBottaccioli](#)

LinkedIn: [Lorenzo Bottaccioli](#)

EDAGruop: [Lorenzo Bottaccioli](#)

IRIS: [Full Publications List](#)

SKILLS

PROGRAMMING

Python • Matlab • Fortran • C • C++ • Sql
• \LaTeX

APPLICATIONS

Qgis • Office Suite • GIMP • Photoshop

PLATFORMS

Linux • Apple OS • Windows •
Geographic Information Systems •
Wireless Sensor Networks

LENGUAGES

Italian • English • Spanish • Portuguese

RESEARCH EXPERIENCE

PHD STUDENT | EDA GROUP, POLITECNICO DI TORINO

Nov 2014 – Oct 2017 | Torino, ITA

Worked with **Prof. Enrico Macii** and **Prof Andrea Acquaviva** to create **MESsi**, a distributed platform for simulation and modelling multi-energy-system in urban districts [?] and simulation and modelling tools [?, 2, 3].

RESEARCH FELLOW | EDA GROUP, POLITECNICO DI TORINO

Nov 2017 – Oct 2018 | Torino, ITA

Worked with **Prof. Enrico Macii** and **Prof Andrea Acquaviva** in the field of residential electricity simulation and Industry 4.0.

ASSISTANT PROFESSOR | ENERGY CENTER LAB - DAUIN, POLITECNICO DI TORINO

Nov 2018 – Present | Torino, ITA

Working at **EC-Lab** with **Prof. Andrea Acquaviva**, **Prof. Romano Borchiellini** and **Prof. Enrico Macii** in the development of co-simulation platform for smart-energy systems, energy simulation tools and Industry 4.0.

REVIEWER

IEEE Systems Journal • MDPI Buildings • MDPI Sustainability •
MDPI Energies • IEEE ICGC 2017 • IEEE ISCAS 2018

TECHNICAL PROGRAM COMMITTEE

April 2018 – Present | SMARTGREENS

RESEARCH PROJECTS

Nov 2015 – Sept 2016 | DIMMER (EU FP7)

Nov 2015 – Sept 2017 | TRIBUTE (EU FP7)

Jan 2015 – Dic 2018 | FLEXMETER (EU H2020)

TEACHING EXPERIENCE

TEACHING ASSISTANT | INFORMATICS, POLITECNICO DI TORINO

Nov 2015 – Present | Torino, ITA

Worked with **Prof Alberto Macii** holding classes for the course of Informatics at Politecnico di Torino.

AWARDS

- **2018** Best Paper Award Candidate at DATE2018
- **2017** Scholar Ship at São Paulo School of Advanced Science on Smart Cities
- **2017** Best Quality Research 2016 at Politecnico di Torino

SELECTED PUBLICATIONS

Full publication list available at IRIS

- [1] A tool-chain to foster a new business model for photovoltaic systems integration exploiting an energy community approach. In *Proc. of IEEE ETFA2015*. IEEE, 2015.
- [2] A flexible distributed infrastructure for real-time co-simulations in smart grids. *IEEE Transactions on Industrial Informatics*, 2017.
- [3] Gis-based software infrastructure to model pv generation in fine-grained spatio-temporal domain. *IEEE Systems Journal*, 2017.
- [4] Realistic multi-scale modeling of household electricity behaviors. *IEEE Access*, 2019.