Università di Genova

Daniele Mestriner

Researcher

EDUCATION AND TRAINING

2016-2020
PhD
Lightning Protection and EMC.
University of Genoa

2017
National qualification for profession of engineer

University of Genoa

2014-2016
Master Degree in Electrical Engineering
University of Genoa

2011-2014
Bachelor Degree in Electrical Engineering
University of Genoa

PROFESSIONAL HISTORY

2021-2022
Post-doc Position
SPES 2021 Project – Grid services for tertiary regulation in the Smart Polygeneration Microgrid of Savona Campus: an analysis aimed at quantifying the economical convenience
University of Genoa

2020-2021
Post-doc Position
Analysis of the impact of multi-levels converters in the presence of power system with high penetration of renewable-sources

University of Genoa with Regione Liguria and Toshiba S.p.A.

2017
Lecturer
Power system modelling and control - Master program of Energy engineering.
University of Genoa

EXPERIENCE

MAIN SEMINARS
2017 Oral presentation at EEEIC 2017

Università di Genova

Politecnico di Milano

2018 Oral presentation at IEEE Symposium on Electromagnetic Compatibility, Signal Integrity and Power Integrity.
Long Beach, California

2019 Oral presentation at Advanced Topics in Electrical Engineering, ATEE 2019
Bucharest, Romania

2019 Oral presentation at EEEIC 2019
Genova

2019 Oral presentation at International Symposium on Lightning Protection (XV SIPDA)
Sao Paulo, Brasile

2021 Oral presentation at EEEIC 2021
Politecnico di Bari

2022 Oral presentation at International Conference on Harmonics and Quality of Power, ICHQP 2022
Napoli

2022 Oral presentation at International Conference on Lightning Protection (ICLP)
Cape Town, Sudafrica

2024 Oral presentation at International Conference on Lightning Protection (ICLP)
Dresden, Germania

TEACHING OR RESEARCH POSITIONS (FELLOWSHIPS) AT FOREIGN UNIVERSITIES AND RESEARCH INSTITUTES

2018 Fellowship (ITER).
The research activity was carried out over a period of 5 months and mainly focused on the modeling of the arc in direct current circuit breakers, which will be used to isolate the reactor from the electrical grid in case of a fault, and on the design of a reactive power compensation system through the sizing and electromagnetic analysis of a STATCOM.

Institution: ITER

2019 Fellowship (Sao Paulo)
I undertook a research fellowship abroad at the University of São Paulo (Brazil), at the Institute of Energy and Environment, within the "Lightning and High Voltage Research Center" coordinated by Professor Alexandre Piantini.
The research activity took place over a period of 3 months and focused on an experimental measurement campaign on the distortion of current in the lightning channel and its propagation speed.

Institution: USP, Sao Paulo, Brasile.

2022/2024 Invited Professor
I taught a semester-long course at the Federal University of São João del-Rei (UFSJ) in Brazil during 2022 and again in 2024. The course, titled *"Lightning Induced Voltages on Distribution Systems,"* was aimed at students enrolled in the *Master's Course in Electrical Engineering*. It

covered topics related to the modeling of lightning channel current, the calculation of electromagnetic fields, and the induced effects on distribution lines.

Institution: UFSJ, Sao Joao del Rei, Brasile.

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

2019 Member of the Editorial Board
Institution: Electrical Science & Engineering (ISSN: 2661-3247).

2019 Member of the Editorial Board
Institution: Journal of Electrical and Electronic Engineering (ISSN:2329-1613)

2019 Guest Editor
Institution: Applied Sciences (ISSN 2076-3417).

2020 Member of the Editorial Board
Institution: Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (ISSN: 2415-6698).

2021: Topic Editor
Institution: Applied Sciences (ISSN 2076-3417).

2022: Guest Editor
Institution: Applied Sciences (ISSN 2076-3417).

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2022 Young Scientist Award
Young Scientist Award" in 2022 by the Scientific Committee of the International Conference on Lightning Protection (ICLP) for the paper "Representation of slow-front lightning currents using a new channel-base function"

Institution: ICLP Committee

2018 Best Student Paper Finalist
I was nominated as a *Best Student Paper Finalist* at the international conference 2018 IEEE Symposium on Electromagnetic Compatibility, Signal and Power Integrity (EMC and SIPI), held in Long Beach, California (USA), from July 30 to August 3, 2018..

Institution: IEEE EMC Society

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS

2020 Patent WO2020/245752
Method and System For Assessing the Island Mode MicroNetwork Stability

2021 Patent WO2021/009672
Method and Systems for Controlling Inverters in Microgrid

Università di Genova