MARTINO NICORA

CURRICULUM VITAE

Date of birth / **22/02/1995** Age / **30**
Place of birth / **PIETRA LIGURE (SV)**
Nationality/ citizenship / **Italy**
QUILIANO (SV)
Driving licence / **B** / **Car available**
ID / **4638221** updated on **23/10/25**

martino.nicora@edu.unige.it
+39 3471256256

FOREIGN LANGUAGE SKILLS

europass

ENGLISH	B2	C1	B2	B1	C1
GOOD					

DIGITAL COMPETENCES

DigComp
Information and data literacy **Proficient user**
Communication and collaboration **Independent user**
Digital content creation **Proficient user**
Safety **Basic user**
Problem solving **Independent user**

EXPECTATIONS AND FEATURES OF THE DESIRED JOB

DESIRED JOB: **University research assistant**

WORK EXPERIENCES

university research assistant
UNIVERSITÀ DEGLI STUDI DI GENOVA
GENOVA (GE)
11/2024 - present

Main activities and responsibilities: Data processing
Model development
Publication of scientific articles
Scientific editorial boarding
Acquired skills and achieved objectives: Coordination of peer reviews
Development of preventive methods for lightning protection
Employed as: office worker - fixed-length contract | Company sector: R&D and patents

PhD Student
UNIVERSITÀ DEGLI STUDI DI GENOVA
GENOVA (GE)
11/2021 - 10/2024

Main activities and responsibilities: Research
Data processing
Modelling
Publication of scientific articles
Acquired skills and achieved objectives: Numerical methods for the evaluation of lightning electromagnetic fields
Machine Learning models for lightning location

university research assistant
UNIVESITÀ DEGLI STUDI DI GENOVA
GENOVA (GE)
05/2020 - 10/2021

Main activities and responsibilities: Research
Data processing
Modelling
Publication of scientific articles
Acquired skills and achieved objectives: knowledge of theories and models related to lightning phenomena
Study of the variability of lightning activityin Italy throughout 10-year data
Lightning-wind turbine interaction: lightning current on wind turbine components, fields irradiated
Lightning performance of transmission power lines
Model of the lightning-induced overvoltage from the lightning current parameters

other information

Currently employed: Yes
Voluntary service: Yes

ACADEMIC STUDIES

PH.D.
2021 - 2025
Università di Genova

Università degli Studi di GENOVA
Dottorato di Ricerca in Scienze e Tecnologie per l'Ingegneria Elettrica e I Sistemi Complessi per la Mobilità
specific field of the degree course: curriculum ingegneria elettrica
Dissertation/thesis title: LIGHTNING LOCAL DATA: ENHANCED LIGHTNING PERFORMANCE ASSESSMENT OF OVERHEAD DISTRIBUTION LINES AND ALTERNATIVE DETECTION METHOD BASED ON MACHINE LEARNING | Thesis supervisor: Massimo Brignone - Andrea Bonfiglio
Age at graduation: 30 | Official duration: 3 years
Graduation date: 27/05/2025

MASTER'S DEGREE
2018 - 2020
CERTIFIED TITLE
Università di Genova

Università degli Studi di GENOVA
Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti
ENERGY ENGINEERING
LM-30 - 2nd level degree in Energy and nuclear engineering
Dissertation/thesis title: Estimation of the Lightning Performance of Overhead Ditriubution Lines based on Lightning Location

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Systems Data | Dissertation/thesis subject: SISTEMI ELETTRICI PER L'ENERGIA | Thesis supervisor: RENATO PROCOPIO

Age at graduation: 25 | Official duration: 2 years
Final degree mark: **110/110 cum laude**
Graduation date: 26/03/2020

BACHELOR'S DEGREE
2014 - 2018
CERTIFIED TITLE

Università degli Studi di GENOVA
Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti
INGEGNERIA INDUSTRIALE E GESTIONALE
specific field of the degree course: industriale
L-9 - 1st level degree in Ingegneria industriale

Dissertation/thesis title: ANALISI DEGLI EVENTI DI FULMINAZIONE IN ITALIA MEDIANTE LA RETE LAMPINET | Dissertation/thesis subject: SISTEMI ELETTRICI PER L'ENERGIA | Thesis supervisor: RENATO PROCOPIO

Age at graduation: 22 | Official duration: 3 years
Final degree mark: **110/110 cum laude**
Graduation date: 16/02/2018

SCIENTIFIC CERTIFICATE
SAVONA
2014

Scientific High School
ORAZIO GRASSI , SAVONA (SV)
School-leaving examination mark: **100/100**
Kind of secondary school diploma: Italian secondary school diploma

INFORMATION TECHNOLOGY SKILLS

OFFICE AUTOMATION

Office Suite: Microsoft Office (Advanced)

APPLICATION SOFTWARE

Energy Plus (Intermediate) , PSCAD (Advanced) | **CAD - Assisted Design:** AutoCAD (Intermediate) | **CAE Software:** AnSYS FLUENT - CFD (Intermediate) , COMSOL Multiphysics (Advanced) | **Data Visualization:** ENVI (Intermediate) | **Geographic Information System (GIS):** QGIS (Advanced) | **Numerical analysis:** FEMM (Advanced)

COMPUTER PROGRAMMING

Programming languages: Java (Intermediate) , Lingo (Advanced) , MATLAB (Advanced)

PROFESSIONAL ACCOLADES AND AWARDS

STATE EXAMINATION
22/07/2020

Ingegneria-Sezione A-Settore Industriale

CONFERENCES AND SEMINARS

CONFERENCES
21/09/2025

XVIII International Symposium on Lightning Protection (SIPDA 2025) , SIPDA - High Voltage Laboratory of Aristotle University of Thessaloniki. , Thessaloniki, Greece
Curatorship: Alexandre Piantini - Pantelis Mikropoulos
Character: Relatore
sipda2025.gr/

CONFERENCES
24/06/2025

25th International Conference on the Computation of Electromagnetic Fields (COMPUMAG 2025) , International Compumag Society , Napoli, Italia
Curatorship: Alessandro Formisano
Character: Relatore
www.compumag2025.com/cm/

CONVENTIONS
12/06/2025

XXXIX Riunione Annuale dei Ricercatori di Elettrotecnica (ET 2025) , Gruppo Nazionale di Elettrotecnica , Villasimius (CA), Italy
Curatorship: Barbara CANNAS, Mauro FELIZIANI, Nicola FEMIA
Character: Relatore

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convegni.unica.it/et2025/

CONVENTIONS
01/09/2024

37th International Conference on Lightning Protection (ICLP) , The VDE Special Committee Lightning Protection and Research (VDE ABB) , Dresda, Germania
Curatorship: Michael Rock, Fridolin Heidler, Alexander Kern, Ralph Brocke, Gernot Finis
Character: Relatore
www.iclp2024.org/en

CONVENTIONS
29/06/2023

XXXXVII Riunione nazionale dei ricercatori di elettrotecnica (ET2023) , Università degli studi di Brescia , Iseo (BS)
Curatorship: Andrea Locatelli
Character: Partecipante
et2023.unibs.it/

CONFERENCES
06/06/2023

23rd International Conference on Environment and Electrical Engineering (EEEIC 2023) , EEEIC , Madrid (Spain)
Curatorship: Rodolfo Araneo - Luigi Martirano
Character: Session chairman e relatore
www.eeeic.net/eeeic/

CONFERENCES
28/06/2022

22rd International Conference on Environment and Electrical Engineering (EEEIC 2022) , EEEIC , Praga (Repubblica Ceca)
Curatorship: Rodolfo Araneo - Luigi Martirano
Character: Session chairman e relatore
www.eeeic.net/eeeic/

PUBLICATIONS

PATENT
2025

NICORA MARTINO, PROCOPIO RENATO, BARMADA SAMI, TUCCI MAURO, BRIGNONE MASSIMO, METODO E SISTEMA PER LA RILEVAZIONE DI EVENTI DI FULMINAZIONE IN UN'AREA DI INTERESSE
Organization: Ufficio italiano brevetti e marchi
Number: 102023000013992
Lightning location system and peak current estimation from induced voltage measurements on transmission and distribution lines based on machine learning techniques,

JOURNAL ARTICLES
2025

Barmada, Sami; Dodge, Shayan; Brignone, Massimo; Nicora, Martino; Procopio, Renato, Relating transmission line overvoltages and lightning location: a machine learning-based procedure
Review: COMPEL
Publisher: Emerald
doi.org/10.1108/COMPEL-12-2024-0521

JOURNAL ARTICLES
2025

D. Mestriner, R. Aramini, M. Brignone, M. Nicora, R. Procopio and A. Randazzo, Method to Include the Effects of Tortuosity in the Electromagnetic Field Expressions produced by Vertical Lightning Channels
Review: IEEE Transactions on Antennas and Propagation
Publisher: IEEE
ieeexplore.ieee.org/document/11154891

JOURNAL ARTICLES
2025

Nicora, M.; Moura, R.A.R.; Bernardi, M.; Mestriner, D.; Fiori, E, Analysis of Ten-Year Variations of Lightning Activity in Italy and Correlation with Land and Sea Surface Temperatures
Review: Applied Sciences
Publisher: MDPI
doi.org/10.3390/app152011038

JOURNAL ARTICLES
2025

Ehsan Akbari Sekehravani, Shayan Dodge, Sami Barmada, Massimo Brignone, Alessandro Formisano, Daniele Mestriner, Martino Nicora, Renato Procopio, Preliminary Breakdown Pulses (PBP): A review on available data and models
Review: Electric Power Systems Research
Publisher: Elsevier
doi.org/10.1016/j.epsr.2025.111463

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JOURNAL ARTICLES
2025

Shayan Dodge, Martino Nicora, Sami Barmada, Massimo Brignone, Renato Procopio, Mauro Tucci, A deep learning based lightning location system
Review: Electric Power Systems Research
Publisher: Elsevier
doi.org/10.1016/j.epsr.2025.111437

JOURNAL ARTICLES
2024

Martino Nicora, Mauro Tucci, Sami Barmada, Massimo Brignone and Renato Procopio, Lightning Location and Peak Current Estimation From Lightning-Induced Voltages on Transmission Lines With a Machine Learning Approach
Review: IEEE Transactions on Electromagnetic Compatibility
Publisher: IEEE
ieeexplore.ieee.org/document/10480740

CONFERENCE PROCEEDINGS
2024

S. Barmada, M. Tucci, M. Brignone, M. Nicora, R. Procopio, Neural Network Based Procedure for Lightning Localization
Collection: 37th International Conference on Lightning Protection (ICLP), Dresden, Germany
Organization: [Proceedings forthcoming]

CONFERENCE PROCEEDINGS
2024

M. Nicora, D. Mestiner, M. Brignone, R. Procopio, M. Bernardi, E. Fiori, A. Piantini, On the Use of Lightning Location System Data to Evaluate the Lightning Performance of Overhead Distribution Lines
Collection: 37th International Conference on Lightning Protection (ICLP), Dresden, Germany
Organization: [Proceedings forthcoming]

JOURNAL ARTICLES
2023

La Fata, A.; Nicora, M.; Mestriner, D.; Aramini, R.; Procopio, R.; Brignone, M.; Delfino, F., Lightning Electromagnetic Fields Computation: A Review of the Available Approaches
Review: Energies
Publisher: MDPI
doi.org/10.3390/en16052436

CONFERENCE PROCEEDINGS
2023

Torchio, R., Nicora, M., Mestriner, D., Brignone, M., Procopio, R., Alotto, P., Rubinstein, M., Full-Wave Analysis of Wind Turbine Transient Response to Direct Lightning Strikes
Organization: International Symposium on Lightning Protection (XVII SIPDA)
ieeexplore.ieee.org/document/10349151

CONFERENCE PROCEEDINGS
2023

La Fata, Alice and Nicora, Martino and Mestriner, Daniele and Aramini, Riccardo and Procopio, Renato and Brignone, Massimo and Delfino, Federico, Lightning Electromagnetic Fields above Perfectly Conducting Ground: A review
Organization: IEEE International Conference on Environment and Electrical Engineering and 2023 IEEE Industrial and Commercial Power Sy
ieeexplore.ieee.org/document/10194849

CONFERENCE PROCEEDINGS
2023

Massimo Brignone; Martino Nicora; Daniele Mestriner; Renato Procopio; Carlo Petrarca; Alessandro Formisano; Sami Barmada, A Semi-Analytical Approach to Calculate Lightning EM Fields Considering Channel Tortuosity
Organization: EEEIC
ieeexplore.ieee.org/document/10194777

JOURNAL ARTICLES
2022

Martino Nicora, Daniele Mestriner, Massimo Brignone, Marina Bernardi, Renato Procopio, Elisabetta Fiori, Federico Delfino, Alexandre Piantini, Farhad Rachidi, Assessment of the Lightning Performance of overhead distribution lines based on Lightning Location Systems data
Review: International Journal of Electrical Power & Energy Systems,
Publisher: Elsevier Ltd
www.sciencedirect.com/science/article/pii/S014206…

JOURNAL ARTICLES
2022

Massimo Brignone, Renato Procopio, Martino Nicora, Daniele Mestriner, Farhad Rachidi, Marcos Rubinstein, A Prony-Based Approach for Accelerating the Lightning Electromagnetic Fields Computation: Effect of the Soil Finite Conductivity
Review: Electric Power Systems Research

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Publisher: Elsevier Ltd
www.sciencedirect.com/science/article/pii/S037877…

JOURNAL ARTICLES
2022

Massimo Brignone, Renato Procopio, Martino Nicora, Daniele Mestriner, Farhad Rachidi, Marcos Rubinstein, A Prony-based approach for accelerating the lightning electromagnetic fields computation above a perfectly conducting ground
Review: Electric Power Systems Research
Publisher: Elsevier Ltd
www.sciencedirect.com/science/article/pii/S037877…

JOURNAL ARTICLES
2022

Massimo Brignone, Martino Nicora, Daniele Mestriner, Renato Procopio, Carlo Petrarca, Alessandro Formisano, Sami Barmada, Federico Delfino, An Efficient Method for the Computation of Electromagnetic Fields Associated With Tortuous Lightning Channels
Review: IEEE Transactions on Electromagnetic Compatibility
Publisher: IEEE
ieeexplore.ieee.org/document/9833250

JOURNAL ARTICLES
2022

Daniele Mestriner, Martino Nicora, On the Importance of Considering Realistic Orography Into the Evaluation of Lightning Electromagnetic Fields in Mixed Path
Review: IEEE Transactions on Electromagnetic Compatibility
Publisher: IEEE
ieeexplore.ieee.org/document/9786605

CONFERENCE PROCEEDINGS
2022

Moura R. A. R.;Mestriner D.;Procopio R.;Schroeder M. A. O.;Assis F. A.;Nicora M.;Delfino F., A Simplified Method for the Evaluation of Lightning-Induced Overvoltage Peaks with Frequency-Dependent Soil Parameters
Organization: EEEIC
dx.doi.org/10.1109/EEEIC/ICPSEurope54979.2022.…

JOURNAL ARTICLES
2021

M. Nicora, D. Mestriner, M.Brignone, M. Bernardi, R. Procopio, E. Fiori, A 10-year study on the lightning activity in Italy using data from the SIRF network
Review: Atmospheric Research
Publisher: Elsevier Ltd
Scopus ID: 2-s2.0-85102572946
doi.org/10.1016/j.atmosres.2021.105552

JOURNAL ARTICLES
2021

D. Mestriner, M. Brignone, R. Procopio, M. Nicora, E. Fiori, A. Piantini, F. Rachidi, An Efficient Methodology for the Evaluation of the Lightning Performance of Overhead Lines
Review: IEEE Transactions on Electromagnetic Compatibility
Publisher: IEEE
Scopus ID: 2-s2.0-85100937032
ieeexplore.ieee.org/document/9355402

JOURNAL ARTICLES
2021

M. Nicora, D. Mestriner, M. Brignone, R. Procopio, E. Fiori, A. Piantini, F. Rachidi, Estimation of the Lightning Performance of Overhead Lines Accounting for Different Types of Strokes and Multiple Strike Points
Review: IEEE Transactions on Electromagnetic Compatibility
Publisher: IEEE
Scopus ID: 2-s2.0-85102641007
ieeexplore.ieee.org/document/9374687

JOURNAL ARTICLES
2021

R. Torchio, M. Nicora, D. Mestriner, M. Brignone, R. Procopio, P. Alotto, F. Rachidi, M. Rubinstein, Do Wind Turbines Amplify the Effects of Lightning Strikes? A Full-Maxwell Modelling Approach
Review: IEEE Transactions on Power Systems
Publisher: IEEE
SUBMITTED FOR PUBBLICATION
ieeexplore.ieee.org/document/9681272

CONFERENCE PROCEEDINGS
2021

Martino Nicora, Alice La Fata, Renato Procopio, Elisabetta Fiori, Federico Delfino, On the Enhancement of the Flashovers on Overhead Distribution Lines Considering the Corona Discharge
Collection: 2021 12th international symposium on advanced topics in electrical engineering

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Organization: ATEE
ieeexplore.ieee.org/abstract/document/9425165

CONFERENCE PROCEEDINGS
2021

Martino Nicora, Alice La Fata, Elisabetta Fiori, Federico Delfino, Electromagnetic Transients on Power Plant Connection Caused by Lightning Event
Collection: 2021 12th international symposium on advanced topics in electrical engineering
Organization: ATEE
ieeexplore.ieee.org/abstract/document/9425133

CONFERENCE PROCEEDINGS
2019

M. Nicora, D. Mestriner, M. Brignone, M. Rossi, R. Procopio, F. Delfino, E.Fiori, The Italian lightning activity: an analysis of the LAMPINET network data
Collection: 2019 International Symposium on Lightning Protection (XV SIPDA),São Paulo,Brazil
Organization: SIPDA

CONFERENCE PROCEEDINGS
2019

M. Nicora, M. Brignone, E. Fiori, M. Rossi, R. Procopio and F. Delfino, Lightning protection of trasmission lines: analysis of lightning activity in Italian territory
Collection: 2019 IEEE International Conference on Environment and Electrical Engineering
Organization: EEEIC
Scopus ID: 2-s2.0-85070835523
ieeexplore.ieee.org/abstract/document/8783641

CONFERENCE PROCEEDINGS
2019

D. Mestriner, M. Nicora, R. Procopio, M. Brignone, M. Rossi, F. Delfino, E.Fiori, Lightning Current Parameters Effects on the Induced Overvoltages in Trasmission Lines
Collection: 2019 IEEE International Conference on Environment and Electrical Engineering
Organization: EEEIC
Scopus ID: 2-s2.0-85070824602
www.researchgate.net/publication/334891166_Lig…

CONFERENCE PROCEEDINGS
2018

R. Procopio, G. Biondi, M. Lagasio, D. Mestriner, M. Nicora, E. Fiori, Analysis of the variability of lightning occurrence over the Italian territory
Collection: 20th EGU General Assembly, EGU2018, Proceedings from conference 4-13 April 2018
Organization: EGU
ui.adsabs.harvard.edu/abs/2018EGUGA..2017308P

TEACHING ACTIVITIES

LESSONS/LECTURES
2024

Federal University of São João del-Rei , Brasile
Lightning Induced Voltages on Distribution Systems
Partecipants: students of Master and PhD courses in Electrical Engineering at the Graduate Program in Electrical Engineering of the Federal University of São João del-Rei, Brazil. Telematic mode.
Hours of lesson: 10 (of 30 total)
Main Professor: Massimo Brignone - Daniele Mestriner - Martino Nicora
Character: Esercitazioni guidate software

LESSONS/LECTURES
2023

Università di Genova , Genova
CIRCUTI ELETTRICI
Main Professor: Mario Nervi - Massimo Brignone
Character: Supporto alla didattica

LESSONS/LECTURES
2022

Università di Genova , Campus univeristario di Savona
SISTEMI ELETTRICI PER L'ENERGIA
Main Professor: Federico Delfino - Massimo Brignone
Character: Supporto alla didattica

LESSONS/LECTURES
2021

Università di Genova , Campus univeristario di Savona
SISTEMI ELETTRICI PER L'ENERGIA
Main Professor: Federico Delfino - Massimo Brignone
Character: Supporto alla didattica

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ADDITIONAL INFORMATION

Guest Editor for the journal MDPI-Applied Sciences, for the publication of the Special Issue entitled 'Artificial Intelligence Applied to Power Systems and Lightning Protection'
from June 6, 2025 to present

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