Università di Genova

Martina Pastorino

Assistant Professor

EDUCATION AND TRAINING

2023
Joint Ph.D in in Science and Technologies for Electronic and Telecommunication Engineering and in Sciences et Technologies de l'Information et de la Communication
Probabilistic graphical models and deep learning methods for remote sensing image analysis, *excellent cum laude*
University of Genoa – Genoa – IT
INRIA, Université Côte d'Azur – Sophia Antipolis – FR

2020
Joint Master Degree in Internet and Multimedia Engineering and in Signal Image Systèmes Automatique (Master SISEA, Université de Rennes I), Major in Mathematical and Computational Engineering
A Novel Method for Semantic Segmentation of Remote Sensing Images Combining Hierarchical Probabilistic Graphical Models and Deep Convolutional Neural Networks, *110 cum laude "worthy of publication"*
University of Genoa – Genoa – IT
IMT Atlantique (Grande École Mines-Télécom) – Brest – FR

2018
Bachelor's degree (B.Sc.) in Electronic Engineering and Information Technology
Regularization Methods for Image Restoration, *110 cum laude*
University of Genoa – Genoa – IT

PROFESSIONAL HISTORY

2024 – ONGOING
Assistant Professor
University of Genoa – Genoa – IT

2024 – ONGOING
External collaborator
INRIA, Université Côte d'Azur – Sophia Antipolis – FR

2023 – 2024
Post-doctoral Research Fellow
University of Genoa – Genoa – IT
INRIA, Université Côte d'Azur – Sophia Antipolis – FR

Università di Genova

EXPERIENCE

MAIN SEMINARS

2026 Probabilistic Graphical Models and Deep Learning for Remote Sensing Image Analysis
IEEE Iceland Section Talks
University of Iceland – Reykjavik – IS

2026 Deep Diffusion Models for Hyperspectral Image Generation
25th Icelandic HPC Community Workshop
University of Iceland – Reykjavik – IS

2026 Probabilistic Graphical Models and Deep Learning for Remote Sensing Image Analysis
University of Stirling – Stirling – UK

2024 Probabilistic Graphical Models and Deep Neural Networks for Remote Sensing Image Analysis
INRIA Grenoble – Grenoble – FR

2024 Probabilistic Graphical Models and Deep Neural Networks for Remote Sensing Image Analysis
INRIA/INRAE Université de Montpellier – Montpellier – FR

2022 Stochastic models and deep-learning methods for remote sensing image analysis
Université Bretagne Sud – Vannes – FR

2022 Semantic Segmentation of Remote Sensing Images through Fully Convolutional Neural Networks and Hierarchical Probabilistic Graphical Models
INRIA, Université Côte d'Azur – Sophia Antipolis – FR

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

2026 Visiting Researcher
University of Iceland – Reykjavik – IS

2023-2024 Post-doctoral Research Fellow
INRIA, Université Côte d'Azur – Sophia Antipolis – FR

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2021 IEEE GRSS Mikio Takagi Student Prize
Best Student Paper Award at the IEEE International Geoscience and Remote Sensing Symposium, IGARSS, 2021
IEEE Geoscience and Remote Sensing Society (GRSS)

2021 IEEE GRSS Master Thesis Prize
Italian Chapters of the IEEE Geoscience and Remote Sensing Society (GRSS)

2021 Prix d'excellence
Université Côte d'Azur – Nice – FR

2024 Best Project Award
EURASIP – IEEE SPS Summer School on Remote Sensing and Microscopy Image Processing

2024 PhD Thesis Prize
Ecole Doctorale STIC, Université Côte d'Azur – Nice – FR

2025 IEEE GRSS PhD Thesis Prize
Italian Chapters of the IEEE Geoscience and Remote Sensing Society (GRSS)

2025 Premio Internazionale Galileo Galilei Giovani
Rotary District 2032

2025 IEEE GRSS PhD Thesis Prize
European Chapters of the IEEE Geoscience and Remote Sensing Society (GRSS)

RESEARCH INTEREST

Martina Pastorino's research activity focuses on developing novel image processing and pattern recognition methods for analyzing remote sensing images. In particular, her work explores the integration of deep learning with stochastic probabilistic graphical models.
Within this framework, she has devoted particular attention to two research directions closely related to semantic segmentation (or dense image classification) of remote sensing data: obtaining accurate results with (i) input multimodal imagery and (ii) scarce ground truth information.