

Martina Pastorino

Assistant Professor

EDUCATION AND TRAINING

2023

Joint Ph.D. 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

EXPERIENCE

MAIN SEMINARS

[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, Sophia Antipolis – Sophia Antipolis – FR

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

[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](#) Best 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)

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.