

My Contact





- Agent-based models
- · Object-oriented analysis · Remote sensing for atmospheric science
- Infrared data interpretation Contingency tobles
- · Bootstrap and interpolation · Machine learning for data classification
- (e.g. random forest, k-means,
- agglomerative hierarchical clustering)
- Python . High-Performance Computing
- · tinux • Batudio
- Netlogo · oas

Microsoft 365 Soft Skills



- · Fast-learning
- Time managing Problem solving

Paolo Francesco Duminuco

Climate and Weather data analyst

Introduction

Efficient researcher with a keen interest in the Earth and Climate systems. Passionate about weather and highly motivated to advance the understanding of climate change. Frequently proised for being analytical, detail-oriented and passessing strong time-management skills. Experienced in satellite data analysis using ML algorithms and adept at conceptual thinking and modeling.

Education Background



- September 2021 October 2023
- Number of credits (ECF) 120
- - Field of study: Environmental systems analysis. Programming in Python. Principle of Earth and Ecosystem Science, Soil-Vegetation-Atmosphere interactions, Agent-Based Modelling of Complex Adaptive Systems.
 - Thesis: Private urban greening: on agent-based model to assess the private adoption and performances of green roofs under social interactions and climate scenarios. Grade: 9/10.
 - MOOC course in Basics of Remote Sensing | EO College Aune 2023 - Auly 2023
 - Field of study: Electromagnetic waves, Almosphere scattering mechanisms, Image classification, Random forest algorithm, Confusion montrices
 - Single learning activities | Alma Mater Studiorum -University of Bologna Sentember 2020 - Adv 2021
 - Number of credits (CFU) 30 Field of study: Physics, Organic chemistry, Ecology, Geology.
 - · Bachelor Degree in Development and International Cooperation | Alma Mater Studiorum - University of Bologna September 2017 - November 2020
 - EQF Level 6 Number of credits (CFU) 180 | Grade 108/110
 - field of study: Statistics, Environmental Economics, History, Socialogy
- and cultural studies, Geography, Demography. Thesis: Into a sustainable future: a model to analyse the relation between lockdown and urban pollution



- · Spanish Intermediate

Other Activities

- Scoutism Piazza Armerina (Balv) 2006 - 2018
- · Participation to the Little Picture Competition from the European Space Agency
- November 2023 · Participation to a session of the European Parliament - Strasbourg

Professional Experience



- · CMCC foundation | Climate Research Intern April 2024 - October 2024
- Key responsibilities:
 - Weather models' validation (WRF, BOLAM, MOLOCH). · Implementation of statistical techniques and machine learning algorithms.
 - · Object-oriented analysis using satellite data (Meteosat second
 - Data analysis using High-Performance Computing. Daily programming in Python and Linux environments.
 - · ABN AMRO Bank N.V. | Climate Risk Analyst Intern March 2023 - August 2023 Key responsibilities:
 - · Analyze financial and climate risk data
 - . Built new methodologies to identify threats based on the mentioned data · Prepare reports on the above information and communicate the
 - insights of these reports · Hold several presentations and organize workshops . Participating in other teams' analysis by employing my QGIS skill

Presentations

Effects of Covid19-restrictions on urban pollution: an analysis on European cities and different mobility habits, Italian Association of Environmental and Resources Economist (MERE) - Ninth annual conference, co-author