



Giuseppe Giugliano

WORK EXPERIENCE

06/2021 – CURRENT Caserta, Italy

SCIENTIFIC COLLABORATOR AS CLIMATE DATA ANALYST EURO-MEDITERRANEAN CENTER ON CLIMATE CHANGE (CMCC FOUNDATION), REMHI DIVISION

- Development in Python language of the bundle of indicators constituting the European Extreme Events Climate Index (E3CI)
- Algorithm Development in Python language to manage and use of satellite data acquired from EUMETCAST EUROPE service
- Numerical Weather Prediction model validation against EO Data
- Quality test and homogenization for weather observation
- Developer of products for the Dataclime software (www.dataclime.com) aimed at carrying out various analyzes on simulated and observed high resolution climatic data, specifically post-processing analysis.
- Meteorological consultancy and forecast data analysis
- Meteo-climatic analysis on a national and European scale from re-analysis data and satellite data
- Co-author of Chapter 2 in Climate Change National Adaptation Plan (PNACC) 2022
- Contribution to the elaboration of Climate Change Regional Adaptation Strategies (SRACC) 2022 for Sardinia Region

10/2022 – CURRENT Napoli, Italy

ASSISTANT PROFESSOR IN ADVANCED METEOROLOGY UNIVERSITY OF NAPLES "PARTHENOPE"

Python programming laboratory on study and analysis of meteo-climatic data

10/2022 – 01/2023 Caserta, Italy

ASSISTANT PROFESSOR IN DYNAMIC MODEL FOR WEATHER FORECAST AND CLIMATE UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI"

Python programming laboratory on study and analysis of meteo-climatic data

EDUCATION AND TRAINING

2018 – 06/2021 Naples, Italy

MASTER DEGREE IN NAVIGATION SCIENCE AND TECHNOLOGIES, CURRICULUM "CLIMATE SCIENCE" University of Naples "Parthenope"

Field of study Climate Science | **Final grade** 110 e lode/110 | **Level in EQF** EQF level 7 |

Thesis Definition and implementation of quality control tests for humidity time series

2014 – 2018 Naples, Italy

BACHELOR DEGREE IN NAUTICAL AND AERONAUTICAL SCIENCE, CURRICULUM "METEOROLOGY AND OCEANOGRAPHY" University of Naples "Parthenope"

Field of study Meteorology and Oceanography | **Final grade** 104/110 | **Level in EQF** EQF level 6 |

Thesis Technique for identification of N-LOS signals for GNSS systems

10/2023 – CURRENT Naples, Italy

PHD STUDENT University of Naples "Parthenope"

Field of study Environmental Phenomena and Risk |

Thesis Statistical techniques for uncertainty assessment in climate forecasting

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
INGLESE	C1	C1	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Data Science & Data Analytics | Data Collection | Data Processing | Data Visualization | Remote Sensing | Microsoft Office

Python

Xarray | Satpy | Scipy | Numpy | Pandas | Matplotlib | geopandas | Basemap toolkits | xclim | Jupyter Notebook | Cartopy | Scikit-Learn | Seaborn

Operative System

Microsoft Windows | Unix/Linux | Ubuntu | IOS

Programming Languages

Advanced in Python | Advanced in MATLAB | CDO | NCO | CShell | Shell Scripting

Data Format

NetCDF | GRIB | CSV | HDF5 | GEOTiff | SHP | XML | TIFF | JSON

Geografic Information System

QGIS

ORGANISATIONAL SKILLS

Organization skills

- Excellent ability to independently organize work in compliance with deadlines
- Strong problem solving and problem analysis skill
- Strict attitude in achieving the set goals

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Ability to work in a multi-cultural team
- Excellent communication-relational skills acquired during work experience as a result of the numerous group work carried out in the context of national and international research projects
- Corporate communication (social media, conference, presentation)

PUBLICATIONS

Papers

- Ricciardi, G., Ellena, M., Barbato, G., **Giugliano, G.**, Schiano, P., Leporati, S., Traina, C., & Mercogliano, P. (2023). Climate change adaptation cycle for pilot projects development in small municipalities: The northwestern Italian regions case study. City and Environment Interactions, 17, 100097. <https://doi.org/10.1016/j.cacint.2022.100097>

Conference

- **Giugliano, G.**, Rianna, G., Pugliese, A., Barbato, G., Ellena, M., Mercogliano, P., Tirri, A., and LoConti, F.: European Extreme Events Climate Index (E3CI), EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-13344, <https://doi.org/10.5194/egusphere-egu23-13344>, 2023.
- Villani, V., Barbato, G., Cau, P., D'Ambrosio, A., Fedele, **G.**, **Giugliano, G.**, Marcogliano, P., Schiano, P., Onorati, G. (2022) - **Sviluppo di un servizio climatico a supporto delle attività di programmazione della regione Campania**. AISAM Assembly 2022