



Ilenia Manco

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WORK EXPERIENCE

[01/03/2024 – Current] **Co-co-co worker**

Euro-Mediterranean Center on Climate Change (CMCC) - REMHI

City: Caserta

Country: Italy

[08/2023 – 11/2023] **Internship**

National Center for Atmospheric Research (NCAR)- Foothills Lab

City: Boulder

Country: Colorado, USA

[11/2022 – 22/01/2024]

Affiliation

Euro-Mediterranean Center on Climate Change (CMCC) - REMHI

City: Caserta

Country: Italy

[08/07/2021 – 31/10/2022] **Co-co-co worker**

Euro-Mediterranean Center on Climate Change (CMCC) - IAFES

[03/05/2021 – 30/06/2022] **Co-co-co worker**

Euro-Mediterranean Center on Climate Change (CMCC) - REMHI

City: Caserta

Country: Italy

EDUCATION AND TRAINING

[09/2021 – Current] **PhD Student**

Alma Mater Studiorum - Università di Bologna

Address: 40127, Bologna, Italy

Artificial Intelligence/Machine Learning applied to numerical model simulations

Statistical downscaling approach for several atmospheric variables using Neural Networks to assess regional climate changes and their impacts.

Numerical simulations with Regional Models (WRF, COSMO, etc.) using a dynamical downscaling approach.

Comparison between different statistical methods and dynamical downscaling producing error metrics and graphs.

[08/2022 – 08/2022] **OCEANOGRAPHIC CAMPAIGN "ANCHEVA" AND "EVATIR 2022" ON THE SHIP "Dalla Porta"**

IAMC-CNR

[19/04/2021 – 19/04/2021] **Meteorologist training certification according to the World Meteorological Organization (WMO)10/2018**

Università degli Studi di Napoli Parthenope

Address: 80133 , Naples,Italy

[09/2019 – 04/2021] **Master's Degree**

Università degli Studi di Napoli Parthenope

Address: 80133, Naples, Italy

Final grade: 110/110 with honours and special mention

Thesis: "Development and analysis of an optimized configuration of the WRF model in Italy: validation of the results obtained from sensitivity tests"

[09/2017 – 12/2019] **Bachelor's Degree**

Università degli Studi di Napoli Parthenope

Address: 80133, Naples, Italy

Final grade: 110/110 with honours and special mention

Thesis: "Thunderstorms and tornadoes: genesis, development and identification through radar measurements"

[10/2019 – 10/2020] **FORECASTER**

Università degli Studi di Napoli Parthenope

Address: Università degli Studi di Napoli Parthenope, Naples, Italy

Drafting of weather reports in the short term, valid for the territory of Campania and for the city of Naples. Activity carried out continuously, on an average weekly basis, in full compliance with the protocols that regulate the drafting of weather reports within the Meteorological Center of the University of Naples "Parthenope".

[06/2019 – 07/2019] **FORECASTER ("30TH SUMMERUNIVERSIADE")**

Università degli Studi di Napoli Parthenope

Address: 80133 , Naples, Italy

Internship activities carried out in the framework of the agreement between the Department of Science and Technology and FISU (International University Sports Faith Ration) on the occasion of the event "30THSUMMER UNIVERSIADE". Drafting in Italian and English of daily weather reports and 3 hours, compiled for the locationsbells where competitions and outdoor training were held. Development of a medium- and long-term meteorological trend. Real- time monitoring of radar and satellite products during adverse weather events.

[08/2019 – 08/2019] **OCEANOGRAPHIC CAMPAIGN "EVATIR 2019" ON THE SHIP "Dalla Porta"**

IAMC-CNR

Acoustic acquisitions, measurements of physico-chemical parameters, biological samples and Ichthyoplantonic and Zooplanktonic samples. In this context, it has been possible to develop skills in the use of oceanographic measuring instruments, in particular: CTD and Bongo-40.

[09/2009 – 07/2014] **GRADUATES SCIENTIFIC HIGH SCHOOL**

ISIS Rita Levi Montalcini

Final grade: 100/100

[04/2017 – 04/2017]

TRAINING ON THE THEORY OF OPERATION, USE AND MAINTENANCE OF THE WINDPROFILER/RASS SYSTEM - SCINTEC LAP 3000 FOR MEASUREMENT OF WIND AND ALTITUDE TEMPERATURE"

ARPAC

Address: CIRA, 81043, Capua, Italy

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

Certificate of Academic English Skills Course

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION B2

Français

LISTENING A2 READING B1 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

DIGITAL SKILLS

Python | Linux | NetCDF tools: nco, cdo, panoply | Artificial Intelligence tools | Ocean Data View (ODV) | Microsoft: Microsoft Word, Microsoft PowerPoint, Microsoft Outlook, Microsoft Teams | QGIS | R
| Windows | PyTorch | Jupyter Notebook | Data Visualization | Data Analysis | Artificial Intelligence | Neural Networks and Deep Learning | MATLAB | Data Preprocessing

PROJECTS

- [Current] **REMHI-CMCC(SILVANUS)**
- [Current] **REMHI-CMCC(HAMMON)**
- [Current] **REMHI-CMCC(PNRR-HPC)**
- [Current] **REMHI-CMCC(IRIDE)**
- [Current] **REMHI-CMCC(GLORI)**
- IAFES-CMCC(HIGHLANDER)**
- REMHI-CMCC(ADRIACLIM)**
- REMHI-CMCC(FRAMESPORT E STREAM)**
- University of Study of Naples "Parthenope"**
(AEROMAT)

CONFERENCES AND SEMINARS

[26/05/2024 – 28/05/2024] **Annual Meeting CMCC**

Oral presentation

[22/04/2024 – 24/04/2024] **Climate Informatics 2024**

Oral presentation, London (The Alan Turing Institute)

[10/03/2024 – 17/03/2024] **Training course: EUMETSAT/ECMWF NWP-SAF satellite data assimilation**

[23/10/2023 – 27/11/2023] **WCRP OSC**

Poster, Rwanda

[28/02/2022 – 01/03/2022] **IDEA-S4S**

Oral presentation, Bologna

[19/12/2022 – 20/12/2022] **Winter Meeting CMCC**

Oral presentation, Lecce

[27/11/2022 – 02/12/2022] **IS-ENES3 Central & Eastern Europe Autumn School**

School and oral presentation, Charles University in Prague

[21/06/2022 – 22/06/2022] **Seconda Conferenza Nazionale sulle Previsioni Meteorologiche e Climatiche**

Poster, Bologna

[15/02/2022 – 19/02/2022] **Quarto Congresso Nazionale AISAM**

Poster, Milano

Seminars on Weather Research and Forecasting model (WRF) in advanced meteorology course

Università degli Studi di Napoli Parthenope

Course Assistant in Coastal Oceanography

Università degli Studi di Napoli Parthenope

Privacy

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.