

PERSONAL INFORMATION



Marcello Grenzi

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Date of birth 21 August 1999 | Nationality Italian

EDUCATION

Nov 2023 – Present

PhD in Future Earth, Climate Change and Societal Challenges

Alma Mater Studiorum University of Bologna – Department of Physics and Astronomy

Supervisor: Natale Alberto Carrassi

Co-supervisors: Thomas Gastaldo, Virginia Poli

In collaboration with **ItaliaMeteo Agency** and **Arpae Emilia-Romagna**

Sept 2021 – Oct 2023

Master Degree in Physics of the Earth System

Alma Mater Studiorum University of Bologna – Department of Physics and Astronomy

Thesis Title: Numerical analysis of shedding vortices past a simplified supercell storm

Supervisor: Carlo Cintolesi

Final mark: 110/110 with honours

Oct 2018 – Sept 2021

Bachelor Degree in Physics

University of Padova – Department of Physics and Astronomy “Galileo Galilei”

Thesis Title - Development of a new experimental setup for the measurement of electron electric dipole moment

Supervisor: Giovanni Carugno

Final mark: 110/110 with honours

FORMATION AND TRAINING

Visiting periods

Katholische Universität Eichstätt-Ingolstadt - Mathematical Institute for Machine Learning and Data Science (MIDS)

Supervisor: Prof. Tijana Janjic

Ingolstadt, Germany, April-October 2025

Training courses

– **Numerical Model Training Course**

DWD, Offenbach am Main, June 2024

– **EUMETSAT/ECMWF NWP-SAF satellite data assimilation**

ECMWF, Reading, March 2025

RESEARCH ACTIVITIES

Conferences

– **ATMOS 2024**, Bologna, 01/07/2024: poster

– **110th National Congress Italian Physics Society (SIF)**, Bologna, 13/09/2024: talk

– **IDEA-S4S Annual Meeting**, Bologna, 26/11/2024: talk

– **ICCARUS 2025**, Offenbach am Main, 11/03/2025: talk

– **EGU General Assembly 2025**, Vienna, 30/04/2025: talk

<https://doi.org/10.5194/egusphere-egu25-10874>, 2025

Collaborations

2024-now: Bilateral project Italia–Deutschland Science-4-Services network in weather and climate (IDEA-S4S)

AWARDS AND MEMBERSHIPS

- Awards**
- **Best Communications - 110° Italian Physics Society congress**
Section 4: Geophysics and environmental physics, Bologna, September 2024
 - **Best 12 Master Thesis 2023/2024**
Department of Physics and Astronomy, Bologna

Membership 2025 - now: Member of "Associazione Italiana di Scienze dell'Atmosfera e Meteorologia" (AISAM)

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
IELTS academic, British Council - 20/07/2023					

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

- Expertise**
- Atmospheric Physics and Meteorology
 - Data Assimilation
 - Remote Sensing
 - Computational Fluid Dynamics

- Computational skills**
- Linux and Windows systems
 - HPC infrastructures
 - Python, Bash programming languages
 - Atmospheric model ICON
 - Advanced use of BACY code for data assimilation experiments in ICON/KENDA
 - OpenFOAM software for Computational Fluid Dynamics
 - L^AT_EX
 - Microsoft Office package

- Other activities and achievements**
- Responsible for the organization of the Third AISAM / ItaliaMeteo Course of Operational Meteorology 2025/2026
 - Member of the organizing committee of the First AISAM Students' Conference 2025
 - First prize at "Giochi della Chimica 2017", province of Modena, Classe B

Driving licence B

PUBLICATIONS

- [1] **M. Grenzi.** "Towards the assimilation of satellite radiances in the convection-permitting ICON model". In: *Il Nuovo Cimento C - Colloquia and Communications in Physics* (2025).