


PERSONAL INFORMATION

Matteo Mastropierro

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Date of birth 28 September 1993 | Nationality Italian

RESEARCH & EDUCATION

September 2020–April 2025
(expected)

PhD - Science and Management of Climate Change

Ca' Foscari University of Venice, Venice (IT)

Final Thesis Scientific essays on carbon cycle and land-atmosphere interactions with implications for the carbon budget. Expected date of PhD defense: March-April 2025

Majors Climate Change, Carbon Cycle, Amazon, GHGs, Land-Use Change, Earth System Models

January–July 2024

PhD Visiting Student

Max-Planck-Institut für Meteorologie (MPI-M), Hamburg (DE)

Research Topics Biophysical effects of a 21st century afforestation scenario

Majors Land-Use Change, Afforestation, Land-Atmosphere Interactions, Energy Balance Modelling

February–September 2022

PhD Visiting Student

Laboratoire des Sciences du Climat et de l'Environnement (LSCE), Gif sur Yvette (FR)

Research Topics Modelling GHG conversion metrics in overshoot scenarios

Majors GHGs, GWP, Carbon Budget, Methane, Simple Climate Model

2020–2021

MRes - Science and Management of Climate Change (1st PhD year)

Ca' Foscari University of Venice, Venice (IT)

Curriculum Climate Modelling & Impact Assessment

Majors Climate of the Past; Climate Dynamics; Mathematical Modelling and Programming; Statistics; Climate Damage Modelling and Assessment; Econometrics and Machine Learning; Environmental and Climate Economics

2016–2018

MSc in Environmental Sciences

ISCED 0521

University of Milano-Bicocca, Milano (IT)

Final Mark 110/110 cum laude

Final Thesis Multivariate analysis of omics data for the development of an untargeted freshwater quality alarm (Radboud University, NL)

Majors Chemometrics, Advanced GIS Analysis, Applied Hydrogeology, Groundwater Remediation, Environmental Chemistry

March 2018 – September 2018

Data analysis Research Internship

Radboud University, Nijmegen (NL)

Partnership with the Dutch Water Authority (Rijkswaterstaat) for the development of a freshwater quality alarm to detect unreported spills and pollution events in the Rhine river

Majors	Multivariate Statistical Analysis; PCA; Machine Learning; Classification; Cluster Analysis; Ensemble Trees
2013–2016	BSc in Environmental Sciences ISCED 0521
	University of Milano-Bicocca, Milano (IT)
Final Mark	103/110
Final Thesis	Evaluation of the conservation status of Asbestos cements by means of reflectance spectroscopy (CNR - IBIMET, Italy)
Majors	Earth Physics, Remote Sensing, Aquatic Chemistry, Ecology, Microbiology, Biochemistry, Statistics

WORK EXPERIENCE

October 2023– **STC - GIS Market Access Specialist**

The World Bank Group
Remote-based

- Network analysis for health facilities & infrastructures in developing countries
- Climate impact analysis (Floods) on physical health accessibility metrics
- Design tutorials and capacity building documentation on Data Science projects

Main Skills Data Science, Python, Github, Geospatial analysis

Business or sector International Financial Organisation

December 2018 – September 2020 **Environmental consultant**

HPC Italy
Via Francesco Ferrucci 17, 20145 Milan, Italy

- Management and analysis of Atmosphere, Water and Climate Data from open source datasets for technical reports drafting
- Environmental Impact Assessment of international offshore Oil & Gas projects
- Environmental regulatory and spatial planning analyses for onshore wind farms projects and linear infrastructures development
- Technical and regulatory compliance for water and air emissions activities

Business or sector Consultancy

SCIENTIFIC PRODUCTION

- Mastropiero, M., Tanaka, K., Melnikova, I., & Ciais, P. **Testing GWP* to quantify non-CO2 contributions in the carbon budget framework: the case under overshoot scenarios**. 2024. (preprint in npj Climate and Atmospheric Science)
- Mastropiero, M., Peano, D., & Zanchettin, D. **Uncertainty in Amazon vegetation productivity in CMIP6 projections driven by surface energy fluxes**. EGU sphere, 2024, 1-26. (preprint in EGU Biogeosciences)
- Mastropiero, M., Peano, D., Zanchettin, D. & Brovkin, V. **Emerging trade-offs in the deployment of large-scale afforestation in a high-CO₂ climate**. (in progress)

PERSONAL SKILLS

Software & Tools Microsoft Office, Scripting with Bash and Python (e.g. Numpy, Xarray, Pandas, rasterio, Scikit-Learn, Scipy, MetPy), C++, NCO, CDO, qGIS, ArcGIS, GRASS & SAGA GIS, MODFLOW.
Version control, documentation and reproducibility with Git and Conda
Proficient in Microsoft Windows, Linux OS, macOS, and HPC clusters

Soft skills – team work: I have worked in various teams and contexts, from academia to consultancy. I've learned how to cooperate, mediate and design solutions for complex problems.
– management skills: I am used to work with deadlines, thus I plan and organize the work in advance according to time and resource restrictions. Result oriented.
– communication skills: I am experienced at delivering work presentations and communicating with both technical and non-technical audiences. Always try to communicate efficiently and effectively. Empathic and Listener.

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
IELTS Academic overall score: 7.5					
French	B1	B1	B1	A2	A1

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

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I hereby authorize the use of my personal data in accordance to the GDPR 679/16.

Venezia, 23/01/2025

