

PERSONAL INFORMATION **Matteo Mastropiero**[in www.linkedin.com/in/matteo-mastropiero](https://www.linkedin.com/in/matteo-mastropiero)

Nationality Italian

RESEARCH & ACADEMIA

July 2025– **PostDoc - Land Modelling**

CMCC Foundation – Euro-Mediterranean Center on Climate Change, Bologna (IT)

Duties Contribution to the following projects: RESCUE, CONCERTO, CMUG

Main Duties Contribution to the following projects: RESCUE, CONCERTO, CMUG. Improvement of CLM (BVOCs, Nitrogen, Phenology); Statistical analysis and processing of CMIP6 simulations and observational datasetsSeptember 2020–April 2025 **PhD & MRes - 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. PhD defense: April 2025

Visiting period, Jan–Jul 2024 Max-Planck-Institut für Meteorologie (MPI-M), Hamburg (DE).

Biophysical effects of a 21st century afforestation scenario, with Prof. Dr. Victor Brovkin

Visiting period, Feb–Sep 2022 Laboratoire des Sciences du Climat et de l'Environnement (LSCE), Gif sur Yvette (FR).
Modelling GHG conversion metrics in overshoot scenarios, with Dr. Katsumasa Tanaka

WORK EXPERIENCE

October 2023–October 2025 **STC - GIS Market Access Specialist**

The World Bank Group, Remote-based

Main Skills Data Science, Python, Github, Geospatial and Network analysis, Infrastructures
Floods Impact AssessmentDecember 2018 – September 2020 **Environmental Impact Assessment (EIA) consultant**

HPC Italy, Via Francesco Ferrucci 17, 20145 Milan, Italy

Main Skills Data Analysis, GIS, Reporting, Environmental Regulatory Compliance

EDUCATION

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 (Mar – Sep 2018 Erasmus+ Traineeship for Thesis at Radboud University, NL)

Majors Chemometrics, Machine Learning, Multivariate Statistical Analysis, Advanced GIS Analysis, Applied Hydrogeology, Groundwater Remediation, Environmental Chemistry

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

SCIENTIFIC PRODUCTION & CONFERENCES

- Mastropiero, M., Tanaka, K., Melnikova, I. et al. **Testing GWP* to quantify non-CO2 contributions in the carbon budget framework in overshoot scenarios.** npj Clim Atmos Sci 8, 101 (2025). <https://doi.org/10.1038/s41612-025-00980-7>
- Mastropiero, M., Peano, D., & Zanchettin, D. **Drivers and uncertainty of Amazon carbon sink long-term and interannual variability in CMIP6 models.** EGU sphere, 2024, 1-26. (<https://doi.org/10.5194/bg-22-5231-2025>)
- 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)
- EEBIOMASS International Workshop 2025, October 21-25, MPI-BGC, Jena, Germany
- THEMES International Conference 2025, October 13-15, Venice, Italy (co-organizer)
- THEMES International Conference 2024, November 14-16, Venice, Italy (co-organizer)
- WCRP 2023 Open Science Conference, October 23-27, Kigali, Rwanda (remote)
- 15th IAMC Annual Meeting, November 29-December 1, College Park, MD, USA (remote)
- EGU 2022, May 23-27, Wien, Austria

PERSONAL SKILLS

Software & Tools Data processing with Bash and Python (e.g. Numpy, Xarray, Pandas, Rasterio, Scikit-Learn, Scipy, MetPy), NCO, CDO, qGIS, ArcGIS, GRASS & SAGA GIS; Programming with C++, GAMS and Fortran90; Modelling with Community Land Model (CLM), ACC2, MODFLOW; Version control, documentation and reproducibility with Git and Conda; Proficient in Microsoft Windows, Linux OS, macOS, and HPC clusters; Microsoft Office package

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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Milano, 06/02/2026