Irene Trombini

Curriculum Vitae

Institute for Atmospheric Science and Climate (CNR-ISAC)
Via Gobetti 101
I-40129 Bologna, Italy
✉ *i.trombini@isac.cnr.it*
Orcid: `https://orcid.org/0000-0002-7070-7162`

Date of Birth 22/04/1998
Nationality Italian

Education

2023- **PhD candidate Future Earth, climate change and societal challenges**, *CNR-ISAC Bologna and Università di Bologna*, Bologna.
Curriculum: *The Earth Sytem*. Research topic: Hierarchies of models and optimization methods for the study of 'tipping points' in the climate system.
Supervisors: Dr. Valerio Lembo, Dr. Susanna Corti, Prof. Paolo Ruggieri.

2020- **Master in Environmental Physics**, *Heidelberg University*, Heidelberg.
Master's thesis: *Atmospheric teleconnections as drivers of synchronous SH-response in simulations of Dansgaard-Oeschger-type events*.
Supervisors: Prof. Dr. André Butz, Dr. Nils Weitzel, Prof. Dr. Kira Rehfeld.

2017-2020 **Bachelor in Physics**, *University of Pavia*, Pavia.
Bachelor's thesis: *Atmospheric Rossby Waves: Barotropic models on the beta-plane*.
Supervisors: Prof. Claudio Dappiaggi, Prof. Marco Gaetani.

2017 **High School Diploma**, *Liceo Scientifico Statale "A. Messedaglia"*, Verona.

Fellowships

2023- **I-PhD College Scholarship holder**, *Collegio Superiore*, Bologna.

2021-2022 **DAAD Scholarship holder**, *German Academic Exchange Service (Deutscher Akademischer Austauschdienst)*.

2017-2020 **Scolarship holder**, *Almo Collegio Borromeo*, Pavia.

Experience

2023 **Student research assistant**, *Prof. Dr. Rehfeld, Geo- and Environmental Center*, University of Tübingen.

2022 **Student assistant**, *Nonlinear dynamics, Prof. Dr. Ziebert, Institute of Theoretical Physics*, Heidelberg University.

2021 **Student research assistant**, *Prof. Dr. Rehfeld, Palaeoclimate reconstructions from the Iso2k database, Institute for Environmental Physics*, Heidelberg.

Conference contributions

- **Oral:** Trombini, I., Weitzel, N., Racky, M., Valdes, P., and Rehfeld, K.: *Atmosphere-mediated response of the Southern Hemisphere hydroclimate in simulations of spontaneous Dansgaard-Oeschger-like oscillations*, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-

2885, https://doi.org/10.5194/egusphere-egu23-2885, 2023.

IT and programming skills

Climate modeling	designing and running simulation ensembles, post-processing climate-model output, documentation of experiments and model components.
Unix-linux	bash scripting, git version-control, use of CDO (Climate Data Operators), basics of cluster computing.
Python	current programming language used for data analysis.
R-Rstudio	middle-level skills.
C++	basic skills.

Languages

Italian	(native speaker)	
German	C1	*Goethe Institut certificate, 2016*
English	C1	*IELTS certificate (graded 8), 2019*
Spanish	A2	

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