

Irene Trombini

Curriculum Vitae

Institute for Atmospheric Science and Climate (CNR-ISAC)

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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 System*. 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.
Grade: 1.0 - very good
- 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.
Grade: 110 cum Lauda/110
- 2017 **High School Diploma**, Liceo Scientifico Statale "A. Messedaglia", Verona.
Grade: 100 cum Lauda/100

Fellowships

- 2023- **I-PhD College Scholarship holder**, Collegio Superiore, Bologna.
- 2021-2022 **DAAD Scholarship holder**, German Academic Exchange Service (*Deutscher Akademischer Austauschdienst*).
- 2017-2020 **Scholarship 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.
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Conference contributions

- **PICO:** Trombini, I., Weitzel, N., Valdes, P., and Rehfeld, K.: *Interhemispheric teleconnections as drivers of Southern Hemisphere climate in simulations of spontaneous Dansgaard-Oeschger-type events*, EGU General Assembly 2024, Vienna, Austria, 15–19 Apr 2024, EGU24-9642, <https://doi.org/10.5194/egusphere-egu24-9642>, 2024.
- **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	<i>Goethe Institut certificate, 2016</i>
English	C1	<i>IELTS certificate (graded 8), 2019</i>
Spanish	A2	

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