

Paolo Ghinassi

Curriculum Vitae

Via di Corticella 56/2
40128, Bologna, Italy
☎ +39 3201427155
✉ p.ghinassi@isac.cnr.it

Personal information

First name Paolo
Last name Ghinassi
Place and date of birth Ravenna (RA), Italy, 05 September 1991
Nationality Italian

Employment

January 2023 **Postdoctoral Researcher, Climate Dynamics, CNR-ISAC, Bologna.**
DestinE, PI Dr. Paolo Davini
October 2021 - **Postdoctoral Researcher, Climate Dynamics, CNR-ISAC, Bologna.**
December 2022 ESTATE (CNR-ISAC funded project), PI Dr. Susanna Corti
September 2019 - June **Postdoctoral Researcher, Climate Dynamics, CNR-ISAC, Bologna.**
2021 PRIMAVERA project, PI Dr. Susanna Corti

Education

October 2015 - July **PhD, Theoretical Meteorology, Institute for Atmospheric Physics, Johannes**
2019 *Gutenberg University (Mainz, Germany)*, final grade: Magna cum Laude.
Thesis title: "Investigating the dynamics of Rossby wave packets using Local Finite Amplitude Wave Activity" within the Waves to Weather transregional collaborative center. Supervisors Prof. Volkmar Wirth (JGU Mainz), Prof. George Craig (LMU Munich).
September 2014 - **Master Degree "Atmosphere, Ocean and Climate", University of Reading**
September 2015 *(Reading, UK)*, final grade: Distinction.
Master Thesis entitled "Predator Prey Model for Storm Track Variability in a Simplified Climate Model". Supervisors Prof. Maarten Ambaum, Dr. Ben Harvey (University of Reading) and Dr. Lenka Novak (Caltech, Pasadena, CA).
September 2010 - **Bachelor Degree "Atmospheric Physics and Meteorology", University of**
March 2014 *Bologna (Bologna, Italy)*, final grade 106/110.
Bachelor Thesis entitled "Error Growth in Weather Forecasting". Supervisors Prof. Francesco Mainardi (University of Bologna) and Dr. Anna Trevisan (ISAC-CNR, Bologna).
July 2010 **Diploma di Maturità Scientifica, Liceo Scientifico "A. Oriani" (Ravenna, Italy)**, final grade 87/100.

Publications

Ghinassi, P., Zappa, G. and Corti, S.: A Tracking method for Rossby wave packets based on Finite-Amplitude Local Wave Activity, in preparation.

Ghinassi, P., Fabiano, F. and Corti, S., 2022: How well is Rossby wave activity represented in the PRIMAVERA coupled simulations?, *Weather and Climate Dynamics*, doi:10.5194/wcd-2021-39

Fabiano, F., Meccia, V., Davini, P., **Ghinassi, P.**, and Corti, S., 2021: A regime view of future atmospheric circulation changes in Northern mid-latitudes, *Weather Clim. Dynam.*, doi:10.5194/wcd-2020-37.

Ghinassi, P., Baumgart, M., Teubler, F., Riemer, M. and Wirth, V., 2020: A budget equation for the amplitude of Rossby wave packets based on finite amplitude local wave activity, *J. Atmos. Sci.*, doi:10.1175/JAS-D-19-0149.1.

Baumgart, M., **Ghinassi, P.**, Selz, T. Craig, G., Wirth, V. and Riemer, M., 2019: Quantitative view on the processes governing the error growth from the convective to the planetary scale in simulations with a stochastic convection scheme, *Mon. Wea. Rev.*, doi:10.1175/MWR-D-18-0292.1.

Ghinassi, P., G. Fragkoulidis, and V. Wirth, 2018: Local Finite Amplitude Wave Activity as a diagnostic for Rossby wave packets, *Mon. Wea. Rev.*, doi:10.1175/MWR-D-18-0068.1.

Professional experiences

- May 2021 **European Centre for Medium-Range Weather Forecasts (ECMWF) training course**, *A hands-on introduction to Numerical Weather Prediction Models: Understanding and Experimenting (online course)*.
- September 2018 **Workshop on machine learning and neural networks**, *basic workshop about theory and applications (with Python) (Garmisch-Partenkirchen, Germany)*.
- September - October 2017 **Visiting student (Dynamical processes group, University of Reading, UK)**, *Testing different wave activity formulations in the barotropic model, hosted by Dr. Ben Harvey (University of Reading)*.
- October 2016 **Forecaster**, *member of the forecasting team during the NAWDEX field campaign (Keflavik, Iceland)*.
- May 2016 **ECMWF training course**, *Predictability and ensemble forecast systems (Reading, UK)*.
- May 2015 **UK Met Office forecasting course**, *completed a one-week introductory course about forecasting taught by UK Met Office instructors. The experience was part of the MSc at University of Reading (Reading, UK)*.

Languages

- Italian Mother tongue.
- English Professional proficiency.
- German Basic knowledge.

Computer skills

- Operating systems Good knowledge of Windows's OS and related OFFICE packages; good knowledge of Linux environment (Ubuntu, Debian).
- Programming Advanced knowledge of Python. Basic knowledge of C++ and fortran90; habitual user of LaTeX writing language.

Driving Licence

European Driving Licence, category A,B