

PERSONAL INFORMATION

Massimiliano Pasqui



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Sex Male | Date of birth 05/07/1971 | Nationality Italian

WORK EXPERIENCE

01/07/2000–Present

Physicist, Researcher at National Research Council – Institute of Biometeorology, Rome (Italy) [www.cnr.it](http://www.cnr.it) - [www.ibimet.cnr.it](http://www.ibimet.cnr.it)  
Regional numerical modelling; parallel computing systems; analysis of atmospheric variability; seasonal forecasts on the Mediterranean and Sub-Saharan Africa; climate change analysis and impacts; climate services.

03/03/1998–30/06/2000

Physicist, Researcher Assistant at National Research Council – Institute of Biometeorology, Rome (Italy) [www.cnr.it](http://www.cnr.it) - [www.ibimet.cnr.it](http://www.ibimet.cnr.it)  
Regional numerical modelling; parallel computing systems; analysis of atmospheric variability; seasonal forecasts on the Mediterranean and Sub-Saharan Africa; climate change analysis and impacts.

EDUCATION AND TRAINING

01/10/2008–01/05/2012

PhD in "Physical modeling for environmental protection" Department of Earth Science, University of Bologna, Bologna (Italy)

01/09/1990–19/12/1996

Master degree in Physics, Department of Physics, University of Rome "Tor Vergata", Roma (Italy)

PERSONAL SKILLS

Computing skills

Unix/Linux; F90, Message Passing Interface; Python; R, Matlab.

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C1	C1	C1

English

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

## ADDITIONAL INFORMATION

### Main Projects

- Principal Investigator, for CNR – IBIMET, in the Project **AGROSCENARI** "Scenarios of adaptation of Italian agriculture to climate change," <http://www.agroscenari.it> (2009 - 2015, funded by MIPAAF)
- Principal Investigator, for CNR – IBIMET, in the Project **MACSUR** (JPI - FACCE) "Impacts of climate change on European agriculture" <http://www.facejpi.com/FACCE-MACSUR> (from 2012 to 2017, funded by the EU - MIPAAF).
- Principal Investigator, for CNR – IBIMET, in the Project **C\_FORSAT** "Modelling the carbon sink in Italian forest ecosystems using ancillary data, remote sensing data and productivity models" [http://www.forestlab.net/projects/c\\_forsat/](http://www.forestlab.net/projects/c_forsat/) (2011 - 2013, funded by MIUR - FIRB).
- Principal Investigator, for CNR – IBIMET, in the Project **IC-FAR** "Linking Long Term Observatories with Crop Systems Modeling For a better understanding of Climate Change Impact and Adaptation Strategies for Italian Cropping Systems" <http://www.icfar.it> (2013 - 2016, funded by MIUR - PRIN).
- Scientific Expert, for CNR – IBIMET, in the Project “**VOPA**: Volatility of agricultural commodity prices” - PI: Dr. Franco Miglietta. Study of the effects of El Nino on wheat worldwide production; Modeling of seasonal forecasts; Analysis of heat waves and their connection to large scale drivers. “Progetto di Interesse” CRISIS-Lab (2014 - 2017, funded by MIUR).
- Principal Investigator for CNR – IBIMET, in the Project “*Integrated services and approaches for Assessing effects of climate change and extreme events for fire and post fire risk prevention – SERV\_FORFIRE*” European ERA4CS Joint Call for Transnational Collaborative Research Projects – Topic B “Researching and Advancing Climate Service Development by Institutional integration” with Grant Agreement 690462.
- Principal Investigator for CNR – IBIMET, in the Project “Turning climate-related information into added value for traditional *MEDiterranean Grape, OLive and Durum wheat food systems — MED-GOLD*” European H2020 Work Programme with Grant Agreement 776467.
- Principal Investigator of the Project “*Training and Operational Principles Course Package T.O.P.*” a joint initiative World Meteorological Organization and CNR-Ibimet, with the collaboration of MeteoSwiss.

### Publications

*Publication List available:* [https://scholar.google.it/citations?user=\\_r35vSMAAAAJ&hl=it](https://scholar.google.it/citations?user=_r35vSMAAAAJ&hl=it)

*Orcid:* <http://orcid.org/0000-0002-0926-362X>

*ResearchGate:* <http://www.researcherid.com/rid/F-8259-2010>

- Tarchiani, V., Rapisardi, E., Parrish, P., Giuseppe, E. D., Bacci, M., Baldi, M., & Pasqui, M. (2020). Competencies based innovative learning solutions for co-development of climate services in West Africa. *Advances in Science and Research*, 17, 47-52.
- Di Giuseppe, E., Pasqui, M., Magno, R., & Quaresima, S. (2019). A Counting Process Approach for Trend Assessment of Drought Condition. *Hydrology*, 6(4), 84.

- Giulioni, G., Di Giuseppe, E., Toscano, P., Miglietta, F., & Pasqui, M. (2019). A Novel Computational Model of the Wheat Global Market with an Application to the 2010 Russian Federation Case. *Journal of Artificial Societies and Social Simulation*, 22(3).
- Magno, R., De Filippis, T., Di Giuseppe, E., Pasqui, M., Rapisardi, E., & Rocchi, L. (2019). Drought monitoring and forecasting services towards customizable applications. EGUGA, 16207.
- Tarchiani, V., Pasqui, M., Parrish, P., Rapisardi, E., Di Giuseppe, E., & Baldi, M. (2019). Learning and teaching about seasonal climate forecasts: a Mediterranean educational experience toward operational climate services. *Advances in Science and Research*, 15, 257-262.
- Pasqui, M., & Di Giuseppe, E. (2019). Climate change, future warming, and adaptation in Europe. *Animal Frontiers*, 9(1), 6-11.
- Tomozeiu, R., Pasqui, M., & Quaresima, S. (2018). Future changes of air temperature over Italian agricultural areas: a statistical downscaling technique applied to 2021–2050 and 2071–2100 periods. *Meteorology and Atmospheric Physics*, 130(5), 543-563.
- Giulioni, G., Di Giuseppe, E., Pasqui, M., Toscano, P., & Miglietta, F. (2018). Investigating Wheat Price with a Multi-Agent Model. arXiv preprint arXiv:1807.10537.
- Magno, R., De Filippis, T., Di Giuseppe, E., Pasqui, M., Rocchi, L., & Gozzini, B. (2018). Semi-Automatic Operational Service for Drought Monitoring and Forecasting in the Tuscany Region. *Geosciences*, 8(2), 49.
- Iocola, I., Bassu, S., Farina, R., Antichi, D., Basso, B., Bindi, M., ... Pasqui, M., ... & Roggero, P.P. (2017). Can conservation tillage mitigate climate change impacts in Mediterranean cereal systems? A soil organic carbon assessment using long term experiments. *EUROPEAN JOURNAL OF AGRONOMY*, 90, 96-107. [here]
- Weil T, De Filippo C, Albanese D, Donati C, Pindo M, Pavarini L, Carotenuto F, Pasqui M, Poto L, Gabrieli J, Barbante C, Sattler B, Cavaliere D, Miglietta F. (2017). Legal immigrants: invasion of alien microbial communities during winter occurring desert dust storms. *Microbiome*, 5(1), 32, doi: 10.1186/s40168-017-0249-7 [here]
- Dono, G., Cortignani, R., Dell'Unto, D., Deligios, P., Doro, L., Lacetera, N., Mula L., Pasqui M., Quaresima S., Vitali A., Roggero, P. P. (2016). Winners and losers from climate change in agriculture: Insights from a case study in the Mediterranean basin. *Agricultural Systems*, 147, 65-75, doi:10.1016/j.agsy.2016.05.013 [here]
- Nguyen, T.P.L.; Mula, L.; Cortignani, R.; Seddaiu, G.; Dono, G.; Viridis, S.G.; Pasqui, M.; Roggero, P.P., (2016), Perceptions of Present and Future Climate Change Impacts on Water Availability for Agricultural Systems in the Western Mediterranean Region. *Water* 2016, 8, 523. (here)
- Nguyen T. P.L., Seddaiu G., Viridis S.G., Tidore C., Pasqui M. and P.P. Roggero, (2016), Perceiving to learn or learning to perceive? Understanding farmers' perceptions and adaptation to climate uncertainties, *Agricultural Systems*, Volume 143, March 2016, Pages 205-216, ISSN 0308-521X, <http://dx.doi.org/10.1016/j.agsy.2016.01.001>.
- Di Giuseppe, E., Lasinio, G. J., Pasqui, M., & Esposito, S. (2015). Tools for predicting rainfall from lightning records: events identification and rain prediction using a Bayesian hierarchical model. arXiv preprint arXiv:1506.02276.

- Pasqui, M. (2015). Evaluation of future diurnal variability and projected changes in extremes of precipitation and temperature and their impacts on crop production over regional case studies (eg Agrosценari case studies). FACCE MACSUR Reports, 6, 4-3.
- Ferrise R, Toscano P, Pasqui M, Moriondo M, Primicerio J, Semenov MA and Bindi M (2015) Monthly-to-seasonal predictions of durum wheat yield over the Mediterranean Basin. *Clim Res* 65:7-21. [here]
- Magno, R., Angeli, L., Chiesi, M., and Pasqui, M. (2014): Prototype of a drought monitoring and forecasting system for the Tuscany region, *Adv. Sci. Res.*, 11, 7-10, doi:10.5194/asr-11-7-2014. [here]
- Gaetani M. and M. Pasqui (2014), Synoptic patterns associated with extreme dust events in the Mediterranean Basin. *Regional Environmental Change*. 10.1007/s10113-012-0386-2 [here]
- Dono, G., Cortignani, R., Giraldo, L., Pasqui, M., & Roggero, P. P. (2014). Income Impacts of Climate Change: Irrigated Farming in the Mediterranean and Expected Changes in Probability of Favorable and Adverse Weather Conditions. *GERMAN JOURNAL OF AGRICULTURAL ECONOMICS*, 63(3), 177-186.
- Dono, G., Cortignani R., Doro L., Giraldo L., Ledda L., Pasqui M. and Roggero P.P., (2013). An integrated assessment of the impacts of changing climate variability on agricultural productivity and profitability in an irrigated mediterranean catchment. *Water resources management*, 27 (10), 3607–3622. doi: 10.1007/s11269-013-0367-3.
- Tomozeiu R., Pasqui M., Quaresima S., Botarelli L. (2013). “Climate projections of temperature and precipitation obtained by statistical downscaling models over Italian regions” *Italian Journal of Agrometeorology - Pàtron Editore Bologna*. Atti del Convegno Agrosценari: agricoltori, politiche agricole e sistema della ricerca di fronte ai cambiamenti climatici, Ancona 1-2 marzo 2012 - *Italian Journal of Agrometeorology*, p.13-14, ISBN:978-88-555-3202-0
- Dono G, Cortignani R, Giraldo L, Doro L, Ledda L, Pasqui M, Roggero PP (2013) Adapting to uncertainty associated with short-term climate variability changes in irrigated Mediterranean farming systems. *Agric Syst* 117:1–12. [here]
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- Di Giuseppe E., G. Jona Lasinio, S. Esposito, M. Pasqui, (2013) Functional clustering for Italian climate zones identification. *Theoretical and Applied Climatology* 10.1007/s00704-012-0801-0 [here]
- Taramelli, A., Pasqui, M., Barbour, J., Kirschbaum, D., Bottai, L., Busillo, C., Calastrini, F., Guarnieri, F. and Small, C. (2013), Spatial and temporal dust source variability in northern China identified using advanced remote sensing analysis. *Earth Surf. Process. Landforms*. doi: 10.1002/esp.3321 [here]

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- Di Giuseppe E., G. Jona Lasinio, S. Esposito, M. Pasqui, (2012) Functional clustering for Italian climate zones identification. Theoretical and Applied Climatology 10.1007/s00704-012-0801-0 [here]