

PERSONAL INFORMATION

Umberto Rizza


ORCID: [https://orcid.org/ 0000-0002-7633-3878](https://orcid.org/0000-0002-7633-3878)
H-INDEX – 23 (Google Scholar)
Citations – 1348 (Google Scholar)
Publications (ISI) - 82

WORK EXPERIENCE

2008-2011 Visiting Professor at UFSM dep. of Physics (Santa Maria, Brasil)

1994- Senior Scientist at CNR/ISAC, Lecce, Italy

1991-1994 Research Scientist at CNR/ISAC, Lecce, Italy

EDUCATION AND TRAINING

1991-1993 Research Fellowship at CNR/FISBAT, Bologna, Italy

1982-1989 Physics, University of Bologna

CURRENT RESEARCHES

Turbulence Simulations of the Planetary Boundary Layer

Transport of natural aerosols

Air quality modeling and simulations

RESPONSIBILITY/COORDINATION

ISAC Technological Department: Computational Hub

PERSONAL SKILLS

[Remove any headings left empty.]

Mother tongue(s) Italiano

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	C1	B1	B1	C1
	Replace with name of language certificate. Enter level if known.				
Portugues	C2	C1	C2	B2	B1
	Replace with name of language certificate. Enter level if known.				

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

Communication skills good communication skills gained through my travel experience

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
INDEPENDENT	INDEPENDENT	INDEPENDENT	INDEPENDENT	INDEPENDENT

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

ADDITIONAL INFORMATION

Publications (best 10)

- Antonelli M., Mazzino A. and Rizza.U. "Statistics of temperature fluctuations in a buoyancy dominated boundary layer flow simulated by a large eddy simulation model". Journal of Atmospheric Science, Vol.60, pp.215-224, 2003;
- G.Lacorata, A.Mazzino, U.Rizza. "3D chaotic model for sub-grid turbulent dispersion in Large-Eddy Simulations". Journal of Atmospheric Science, vol.65, No.7, pp.2389-2401, 2008;
- Anabor, V., Rizza, U., Nascimento, E. L., and Degrazia, G. A. "Large-Eddy Simulation of a microburst". Atmos. Chem. Phys., 11, 9323-9331, doi:10.5194/acp-11-9323-2011, 2011;
- Umberto Rizza, Francesca Barnaba, Mario Marcello Miglietta, Cristina Mangia, Luca Di Liberto, Davide Dionisi, Francesca Costabile, Fabio Grasso, and Gian Paolo Gobbi, *WRF-Chem model simulations of a dust outbreak over the central Mediterranean and comparison with multi-sensor desert dust observations*, Atmos. Chem. Phys., 17, 93–115, doi:10.5194/acp-17-93-2017, 2017;
- Umberto Rizza, Mario Marcello Miglietta, Cristina Mangia, Pierina Ielpo, Mauro Morichetti, Chiara Iachini, Simone Virgili, Giorgio Passerini, *Sensitivity of WRF-Chem model to land surface schemes: Assessment in a severe dust outbreak episode in the Central Mediterranean (Apulia Region)*, Atmospheric Research, 201, 168–180, <https://doi.org/10.1016/j.atmosres.2017.10.022>, 2018;
- Rizza, U.; Canepa, E.; Ricchi, A.; Bonaldo, D.; Camiel, S.; Morichetti, M.; Passerini, G.; Santiloni, L.; Scremin Puhales, F.; Miglietta, M.M. *Influence of Wave State and Sea Spray on the Roughness Length: Feedback on Medicanes*. Atmosphere **2018**, 9, 301; doi:10.3390/atmos9080301;
- Umberto Rizza, Eleonora Brega, Maria Teresa Caccamo, Giuseppe Castorina, Mauro Morichetti, Gianmarco Munaò, Giorgio Passerini and Salvatore Magazù; Analysis of the ETNA 2015 Eruption Using WRF–Chem Model and Satellite Observations, *Atmosphere* 2020, 11, 1168; doi:10.3390/atmos11111168;
- Rizza, U.; Kandler, K.; Eknayan, M.; Passerini, G.; Mancinelli, E.; Virgili, S.; Morichetti, M.; Nolle, M.; Eleftheriadis, K.; Vasilatou, V.; Ielpo, P. Investigation of an Intense Dust Outbreak in the Mediterranean Using XMed-Dry Network, Multiplatform Observations, and Numerical Modeling. *Appl. Sci.* 2021, 11, 1566. <https://doi.org/10.3390/app11041566>
- Rizza, U., Canepa, E., Miglietta, M. M., Passerini, G., Morichetti, M., Mancinelli, E., ... & Mazzino, A. (2021). Evaluation of drag coefficients under medicane conditions: Coupling waves, sea spray and surface friction. *Atmospheric Research*, 247, 105207.
- Umberto Rizza, Franck Donnadieu, Salvatore Magazu, Giorgio Passerini, Giuseppe Castorina, Agostino Semperebello, Mauro Morichetti, Simone Virgili and Enrico Mancinelli (2021), Effects of Variable Eruption Source Parameters on Volcanic Plume Transport: Example of the 23 November 2013 Paroxysm of Etna, *Remote Sensing* 13(20), 4037

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Lecce, March 29, 2022

Umberto Rizza