PERSONAL INFORMATION

Fabio Madonna



- Onsiglio Nazionale delle Ricerche. Istituto di Metodologie per l'Analisi Ambientale
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- Sex Male | Nationality Italy

WORK EXPERIENCE				
2020-	Adjunct Professor			
	University of Salerno, Italy			
	Faculty member, Department of Chemistry and Biology PhD supervisor at Department of Physics			
	Business or sector Government / Research			
2011-	Research Scientist			
	Consiglio Nazionale delle Ricerche (CNR)			
	Research scientist on Atmospheric Sciences and ground-based remote sensing at the CNR-IMAA Atmospheric Observatory (CIAO) at CNR. Leader of the C3S2 311 contract (2021-2025) in the frame of the Copernicus Climate Change Service (C3S) Leader of the C3S 311a Lot3 contract (2017-2021) in the frame of the Copernicus Climate Change Service (C3S) Coordinator of the project "OSCAR: Observation System for Climate Application at Regional scale" FESR programme 2007-2014 Business or sector Government / Research			
EDUCATION AND TRAINING				
2003-2007	PhD in Methods and Technologies for the environmental monitoring			
	University of Basilicata, Potenza, Italy			
	Ground-based remote sensing			
1998-2003	Degree in physics cum laude			
	University of Rome "La Sapienza", Rome, Italy			
	Ground-based remote sensing			
PERSONAL SKILLS				
Mother tongue(s)	Italian			

Other language(s)	UNDERSTANDING		SPEAKING		WRITING	
	Listening	Reading	Spoken interaction	Spoken production		
English	C1	C1	C1	C1	C1	
French	A1	A1	A1	A1	A1	
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages					
Communication skills	Adjunct Professor at University of Salerno (Dep. Of Chemistry and Biology) Tutor of undergraduate, PhD and post-doc students Invited speaker at conferences Media appearances (print, TV, online) Project scientific reporting and reporting to general public					
Organisational / managerial skills	Technical and service manager of the C3S 311a Lot3 contract (2017-2021) Member of the WG-GRUAN (2011-present), co-chair GRUAN task team "Scheduling" Coordinator and WP leader in National and international projects (OSCAR, ACTRIS-IT, GAIA-CLIM) Supervised PhD student to completion PI of the TransNational Access Activities) for the CIAO station for EU FP7 ACTRIS (Aerosols, Clouds, and Trace gases Research InfraStructure Network) Reviewer of EURAMET for project in metrology					
Job-related skills	Observational data analysis Database construction Dataset creation, homogenization and advanced statistical analysis Expert of ground based remote sensing technologies Atmospheric measurement uncertainty analysis Validation of field measurement techniques, models, and satellite data records					
Computer skills	R, IDL, Fortran, Visual basic, Matlab, JAVA, Windows, OS, Linux MS Office ZEMAX Website design					
Other skills	Scientific assessments					
ADDITIONAL INFORMATION						
Publications	50 peer-reviewed papers					
Most relevant publications	 Madonna, F., et al.: The new Radiosounding HARMonization (RHARM) dataset of homogenized radiosounding temperature, humidity and wind profiles with uncertainties. Part I: and Part II, submitted to Journal of Geophys. Res., 2021 Madonna, F., et al.: Use of automatic radiosonde launchers to measure temperature and humidity profiles from the GRUAN perspective, Atmos. Meas. Tech., 13, 3621–3649, https://doi.org/10.5194/amt-13-3621-2020, 2020. 					
	 Lolli, S., Madonna, F., et al.: Impact of varying lidar measurement and data processing techniques in evaluating cirrus cloud and aerosol direct radiative effects, Atmos. Meas. Tech., 11, 1639-1651, https://doi.org/10.5194/amt-11-1639-2018, 2018. Thorne, P. W., Madonna, F., et al.: Making better sense of the mosaic of environmental measurement networks: a system-of-systems approach and quantitative assessment, Geosci. Instrum. Method. Data Syst., 6, 453-472, https://doi.org/10.5194/gi-6-453-2017, 2017. G. E. Bodeker et al. (2016): Reference Upper-Air Observations for Climate: From Concept to Reality. Bull. Amer. Meteor. Soc., 97, 123–135.doi: http://dx.doi.org/10.1175/BAMS-D-14-00072.1 					