

PERSONAL INFORMATION



Andrea Bertolini

📍 Castelnovo ne' Monti (RE) - Italy

☎ 333 8352540

✉ info@reggioemiliameteo.it

WORK EXPERIENCE

11/8/2017 – Present



Climate and Networks Department Manager

Radarmeteo s.r.l. - systems for meteorology and environment (www.radarmeteo.com)

- design of real-time meteorological monitoring networks according to the WMO guidelines;
- technical consultancy for meteorological certification of monitoring networks;
- implementation of real-time decision support for mitigation of floods;
- weather forecast for highways, provinces, municipality and multiutility.

Business or sector: meteorology and environment

15/4/2013 – 19/11/2016



Research Assistant

Institute of Atmospheric Sciences and Climate - Italian National Research Council (ISAC-CNR)

- research activities in the project [ECLISE](#): "Statistical downscaling of global and regional models on the Italian territory";
- research activities in the project [NEXTDATA](#): "Realisation of a high-resolution dataset of meteorological variables for the Alpine region".

Business or sector: scientific research

1/11/2010 – 31/12/2014



Meteorologist

Consorzio Difesa Produzioni Agricole Mantova (CO.DI.MA)

- weather forecast for Mantova province;
- analysis of weekly, monthly and yearly meteorological evolution for Mantova province;

Business or sector: meteorology

12/4/2010 – 28/7/2010



Meteorologist

Centro Funzionale Meteo-Idrologico di Protezione Civile della Regione Liguria (ARPAL.CFMI-PC)

- operational weather forecast with emission of official weather report for Liguria;
- study of the atmospheric dynamics related to the floods of the river Magra;
- analysis of Arctic Oscillation climate index.

Business or sector: meteorology and civil protection

1/1/2009 – Present

Meteorologist and climatologist – creator and director of web site www.reggioemiliameteo.it

Weather advice for Provincia di Reggio Emilia (www.provincia.re.it), Consorzio Fitosanitario Provinciale (www.fitosanitario.re.it) and Novanta s.c.s.

- weather forecast for the province of Reggio Emilia;
- creation and management of the [monitoring network](#) of ReggioEmiliaMeteo;
- automatic forecasting up to 15 days of climatic indices (AO, EA and SCAND);
- high resolution seasonal forecasts (0.25° x 0.25°) for Europe and Mediterranean area.

Business or sector: meteorology and climatology

18/6/2007 – 31/12/2007



Scientific Advisor

Progea srl (www.progea.net)

- wind farms: analysis of wind resource and definition of productivity sites.

Business or sector: energy and environment

15/4/2007 – 14/4/2013

Technical Advisor

Ing. S. Spadaccini e Ing. F. Martinelli, Via Giuseppe Micheli 3 - 42035 Castelnovo ne' Monti (RE)

- topographic survey using GPS technology and architectural design.

Business or sector: engineering

EDUCATION AND TRAINING

1/2014 – 11/2017



PhD in “Models and Methods for Material and Environmental Sciences”

Università degli studi di Modena e Reggio Emilia ([UNIMORE](#))

- PhD Thesis: “Realisation of High-Resolution gridded precipitation data set for the study of the effects of extreme events on slope instability”.

9/1999 – 3/2007



Master's Degree in Environmental Engineering (MEng)

Università di Bologna ([UNIBO](#))

- Graduation Thesis: “A climatic long term forecast model for the European area and for the regions subjected to Pacific Decadal Oscillation”;
- hydraulic, water management, fluid mechanics, geology, geotechnical.

9/1994 – 7/1999

High School Diploma

Liceo Scientifico Statale “Aldo Moro” di Reggio Emilia ([www.liceomoro.gov.it](#)).

- mathematics and natural sciences.

PERSONAL SKILLS

Other language

English

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2

Organisational skills

- excellent project-management skills, team lead abilities acquired at university and while working as director of the website [ReggioEmiliaMeteo](#).

Digital competence

- excellent command of programming language **R**;
- basic knowledge of programming languages Fortran 77, shell Bash, php, C++;
- good command of **Grid Analysis and Display System (GrADS)**;
- excellent command of interactive workshops for climate analysis;
- good command of **Windows, Mac OS** and **Linux** operating systems;
- excellent command of **Office** suite (Excel, Word e Power Point);
- excellent command of CAD 2d/3d (AutoCad, Leonardo XE, Sketch Up);
- good command of Paint.net and Adobe Photoshop;

Other skills

- realisation of topographic surveys with GPS technology.

ADDITIONAL INFORMATION

Certification of competences

- Certified Meteorologist (ISO 17024 and WMO No. 1083)

Courses

- “Multivariate Statistics with R”, Sapienza Università di Roma, Roma, 1-3/7/2015;
- “Introduction to the use of R”, Sapienza Università di Roma, Roma, 16-18/6/2015;
- “Spatial and spatio-temporal modelling of meteorological and climatic variables using Open Source software (R + OSGeo)”, University of Belgrade, Belgrade, 23-25/6/2014;
- “Analysis and development of a miniwind project”, ISES ITALIA, Milano, 25/9/2009;

Conferences

- “MedCLIVAR 2016 conference”, oral presentation, Atene, 26-30/9/2016;
- “16th EMS Annual Meeting & 11th European Conference on Applied Climatology”, poster presentation, Trieste, 12-16/9/2016;
- “15th Plinius Conference on Mediterranean Risks”, poster presentation, Giardini Naxos, 8-11/6/2016;
- “European Geosciences Union General Assembly 2016”, poster presentation, Vienna, 19-22/4/2016;
- “Climate variability in Italy during the last two millennia - Italy 2k”, Accademia Nazionale dei Lincei, Roma, 1-2/12/2014;
- “ECLISE Final General Assembly”, oral presentation, Amburgo, 26-27/5/2014.

Publications

- “High-resolution analysis of 1-day extreme precipitation in a wet area centred over eastern Liguria, Italy”, Theoretical and Applied Climatology: <https://doi.org/10.1007/s00704-018-2380-1>
- “Climate-change potential effects on the hydrological regime of freshwater springs in the Italian Northern Apennines”, Science of the Total Environment: <https://doi.org/10.1016/j.scitotenv.2017.11.231>

I authorise the use of my personal data in compliance with Legislative Decree 196/03.