

CURRICULUM VITAE

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PERSONAL INFORMATION

Name
Contacts
Nationality

Angela MARINONI

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Italian (F)

OCCUPATION FIELD

SCIENTIFIC RESEARCH

Atmospheric Composition, Aerosol Properties, Background Conditions, Pollution Transport

Angela Marinoni is an expert in "near surface" Atmospheric Observations for the study of the atmosphere, air quality and specific climatic hot spots.

In particular, she is an expert in the physical-chemical properties of aerosols and clouds and has always been interested in the study of atmospheric composition in remote environments, especially at high altitudes, but also remote marine environments, strategic environments for i) monitoring the background conditions of the atmosphere and the influence of pollutants on it; ii) determine their trend over time and study the processes that influence their variability; iii) study the interactions between climate and atmospheric environment.

She dealt with the infrastructural upgrading of the Convergence regions, where she coordinated the creation of a network of environmental, profiling and agro-forestry climate observatories.

During his career he has accumulated considerable experience in numerous field measurement campaigns, in the long-term construction and management of Environmental Climatic Observatories, even remotely, and in networking activities in international programs for data quality control, for the management and sharing of data both in near real time and after accurate processes of validation and quality control.

BIBLIOMETRIC INDEXIX

Author of 65 articles in peer reviewed international journals

ISI Web of Science: 83 publications, citing articles 2054, h-index 31

SCOPUS: 82 documents, cited by 2105 documents, 428 co-authors, h-index 33

Google Scholar: 4284 citations, h-Index: 37, i10-index: 67

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RESEARCH WORK EXPERIENCES

Period
Position
Main Activities

March 2020 →

Senior Researcher at Institute of Atmospheric and Climate Sciences – Italian Research Council (Bologna, Italy)

Managing the Italian component of ACTRIS RI structural strengthening, through the MUR project PER_ACTRIS_IT

Aerosol measurements (integration of chemical, physical and optical properties) at Monte Cimone (2165 m asl, Appennins - Italy), Capo Granitola (Sicily, coastal station).

Institute	Institute of Atmospheric and Climate Sciences – Italian Research Council (Bologna, Italy)
Period	October 2012 → February 2020
	Researcher at Institute of Atmospheric and Climate Sciences – Italian Research Council (Bologna, Italy)
Main Activities	Responsible for aerosol measurements (integration of chemical, physical and optical properties) at Monte Cimone (2165 m asl, Appennins - Italy) and Nepal Climate Observatory at Pyramid (5079 m asl, Himalaya – Nepal) Stations
Period	September 2005 - September 2012
Position	Post Doc (Supervisor: Paolo Bonasoni)
Institute	Institute of Atmospheric and Climate Sciences – Italian Research Council (Bologna, Italy)
Main Activities	Long term measurement of chemical, physical and optical properties of atmospheric aerosol at Monte Cimone (2165 m asl, Appennins - Italy), ABC-Pyramid (5079 m asl, Himalaya – Nepal).
Period	November 2004 - August 2005
Position	Visiting Scientist CNRS (French Scientific Research Council) Invitation: Gilles Mailhot
Institute	Laboratoire de Photochimie Moléculaire et Macromoléculaire, Clermont Ferrand University, France.
Main Activities	Coordination of students and technicians in field campaigns and laboratory analyses; data elaboration and interpretation, writing scientific papers and reports. Aerosol-cloud interaction.
Period	2003-2004
Position	Post-Doc (Supervisor: Sergio Zappoli)
Institute	Physic and Inorganic Chemistry Department – Bologna University
Main Activities	Solubility-dependent fractionation of organic matter in different atmospheric phases (aerosol, cloud, snow).

TEACHING AND SCIENCE DIVULGATION EXPERIENCE

Didactic	80 hours of university teaching at Bachelor preparation courses of: Physical Geography (2003), Urban Meteorology (2004) and Climatology (2004) at Milano-Bicocca University; Environmental Monitoring and Environmental Chemistry at Bologna University (2004-2005). Cloud Chemistry (PhD in Chemistry at University of Milano, 2003). Teaching on the field , in the frame of Geography (Earth Science), Physical Geography (Environmental Science) and Environmental Sciences Field laboratories and in the frame of didactic project “Atmospheric path” (ISAC-CNR): and “Glaciological path to Forni Glacier” (2004-2008) Training of research activity to six bachelor students and two PhD students
Invited Talks	5 scientific seminars for research activity presentation at Research Institution in Italy and France. 8 popular seminars (glaciology, climate change) at public libraries, environmental associations.

EDUCATION AND TRAINING

Period	2000 – 2003
Title awarded	Environmental Sciences PhD (Supervisor: Paolo Laj)
Thesis Title	“Influence of atmospheric aerosol on chemical and physical processes and its interaction with clouds”
Organisation providing education	University of Milano Bicocca (Italy); the research activity was completely carried out at Laboratoire de Météorologie Physique (Clermont-Ferrand University, France)
Period	2001
Title awarded	MASTER (French Diplôme d’Etude Approfondie) “Climate and Atmospheric Physics and Chemistry”
Thesis Title	“Iron speciation in atmospheric liquid phase at puy de Dôme Atmospheric Station”

Organisation providing education	Blaise Pascal University – Clermont Ferrand
Period	1993 – 1999
Title awarded	Environmental Sciences Bachelor (Supervisor: Giuseppe Orombelli)
Thesis Title	“Chemical composition of fresh snow in Khumbu Valley (Nepal-Himalaya)”
Organisation providing education	Milan University (Italy)
International Schools	<p>20-26 may 2006. Hyttiälä, Finland. “Measurements of atmospheric aerosols: aerosol physics, sampling and measurement techniques”. International course in the framework of EUSAAR, ACCENT and CBACCI projects, in cooperation with ILEAPS.</p> <p>4-14 December 2006, Bangkok, Thailand e Hanimaadhoo, Maldives. ABC Training School. UNEP Regional Resource Centre for Asia and the Pacific (RRC.AP) in the framework Atmospheric Brown Clouds project.</p>

PERSONAL SKILLS

Mother tongue	Italian
Other languages	French (Fluent), English (Good)
Social skills and competences	<ul style="list-style-type: none"> • Good relational skills, team work. • I’m used to share international context (I frequently join international field campaigns for aerosol measurement, international meetings and conferences). • Good communication skills, practise to talk to large audiences (conferences, workshops, teaching) in Italian, English and French.
Organisational skills and competences	<ul style="list-style-type: none"> • Coordination of students and technicians. • Organisation of field campaigns. • Reporting of European projects.
Technical skills and competences	<ul style="list-style-type: none"> • Knowledge of major techniques for trace atmospheric substances and aerosol cloud physical and microphysical properties. Aerosol and cloud sampling. Continuous atmospheric measurements (Monte Cimone, Nepal Climate Observatory - Pyramid, Capo Granitola, Puy de Dome). Knowledge of clean room protocols. • Statistical elaboration and interpretation of environmental data set. • Didactic and exposition skills. • Used to work in extreme conditions (field campaigns of several months in Antarctica, Alps, Himalayas.)
Computer skills	Windows Operational System; (Word, Excel, Power Point, Access, Origin, SigmaPlot, Grapher, Igor).

PUBLICATIONS

PEER REVIEWED

1. Marinoni, A.*, V. Maggi, S. Polesello, C. Smiraglia, G. Tartari, S. Valsecchi "Composizione chimica della neve e del ghiaccio nella Valle del Khumbu (Sagarmatha National Park, Himalaya, Nepal)". *Geografia fisica dinamica quaternaria*, Suppl. V-2001, 103-111.
2. Marinoni A., S. Polesello*, C. Smiraglia and S. Valsecchi. Chemical composition of freshsnow from Southern slope of Everest Region. *Atmospheric Environment*. 35(18): 3183-3190, 2001
3. The EPICA Dome C 2001-02 science and drilling teams: Extending the Ice core Record beyond half a million years. *EOS, Transactions, American Geophysical Union*, 83 (45), 509-514, 2002.
4. Sellegri, K.*, Laj, P., Marinoni, A., Dupuy, R., Legrand, M. and Preunkert, S.: Contribution of gaseous and particulate species to droplet solute composition and concentration. *Atmospheric Chemistry and Physics*, 3, 479-519, 2003.
5. Marinoni A.*, Abida O., Laj P. and Mailhot G.: Iron photochemistry in the atmospheric liquid phase at the puy de Dôme summit. *Journal of Physics IV*, 823-826, 2003.
6. Marinoni A.*, Laj P., Sellegri K. And Mailhot G. Cloud chemistry at the puy de Dôme: variability and relationship with environmental factor. *Atmospheric Chemistry and Physics*, 4, 715-728, 2004.
7. Pecci M.*, Rinaldini A., Smiraglia C., D'Agata C., Diolaiuti G., Maggi V., Marinoni A., Deamicis M., Polesello S. and Valsecchi S.: The cryosphere in the Mediterranean area as indicator of the effects of industrial activities on living environments. *PREVENZIONE OGGI*, III, 2004.
8. A. Marinoni*, Laj P., Deveau P.A., Marino F., Ghermandi G., Aulagnier F., Cachier H. and Preunkert S.: Physico-chemical properties of fine aerosols at Plan d'Aups during ESCOMPTE. *Atmospheric Research*, 74, 565-580, 2005.
9. Cachier*, H., F. Aulagnier, R. Sarda, F. Gautier, P. Masclet, J.-L. Besombes, N. Marchand, S. Despiou, D. Croci, M. Mallet, P. Laj, A. Marinoni, P.-A. Deveau, J.-C. Roger, J.-P. Putaud, R. Van dingenen, A. Dell'acqua, J. Viidanoja, S. Martins-Dos Santos, C. Lioussse, F. Cousin, R. Rosset, E. Gardat, C. Galy-lacaux.: Aerosol studies during the ESCOMPTE experiment : an overview. *Atmospheric Research*, 74, 547-563, 2005.
10. Parazols M., A. Marinoni.*, Amato P., Abida O., Laj P. and Mailhot G. Speciation and role of iron in cloud droplets at the puy de Dôme. *Journal of Atmospheric Chemistry* 54(3), 267-281; 2006.
11. P. Bonasoni, P. Laj, P. Cristofanelli, A. Marinoni, U. Bonafè, F. Calzolari, F. Roccato, E. Vuillermoz, J. Arduini and M. Maione, High mountain observatories for monitoring gases and aerosol properties in Himalayas and Apennine regions. In: *Global Change, Environment, Sustainable Development of the Society and High Mountain Observatories Network*. pp: 32-29, anno: 2007, editore: Académie Bulgare des Sciences.
12. C. Minero, V. Maurino, F. Bono, E. Pelizzetti, A. Marinoni, G. Mailhot, ME. Carlotti, D. Vione. Effect of some organic and inorganic snow and cloud components on the photochemical generation of nitrite on nitrate irradiation. *Chemosphere*, 68(11), 2111-2117; 2007.
13. A. Marinoni, P. Cristofanelli*, F. Calzolari, F. Roccato, U. Bonafè and P. Bonasoni. Continuous measurements of aerosol physical parameters at the Mt. Cimone GAW station (2165 m a.s.l., Italy). *Science of The Total Environment*, 391(2-3), 241-251, 2008.
14. P. Bonasoni, P. Laj F. Angelini, J. Arduini, U. Bonafè, F. Calzolari, P. Cristofanelli, S. Decesari, MC. Facchini, S. Fuzzi, GP. Gobbi, M. Maione, A. Marinoni, A. Petzold, F.

- Roccato, J.-C. Roger, K. Sellegri, M. Sprenger, H. Venzac, G.P. Verza, P. Villani, and E. Vuillermoz. The ABC-Pyramid Atmospheric Research Observatory in Himalaya for continuous aerosol and ozone measurements. *Science of The Total Environment*, 391(2-3), 252-261, 2008.
15. H. Venzac, K. Sellegri, P. Laj, P. Villani, P. Bonasoni, A. Marinoni, P. Cristofanelli, F. Calzolari, S. Fuzzi, S. Decesari, M.-C. Facchini, E. Vuillermoz and G.P. Verza. High Frequency new particle formation in the Himalayas. *Rivista: Proceeding of the National Academy of Science of the United States of America (PNAS)*, Vol. 105 (41), pp. 15666-15671, 2008, editore: National Academy of Science USA, 2008.
 16. P. Cristofanelli, F. Calzolari, U. Bonafè, R. Duchi, A. Marinoni, F. Roccato, L. Tositti, P. Bonasoni. Stratospheric Intrusion Index (SI₂) from baseline measurement data. *Rivista: Theoretical and Applied Climatology*, DOI: 10.1007/s00704-008-0073-x, 2009, editore: Springer-Verlag.
 17. T. Muller; A. Nowak; A. Wiedensohler; P. Sheridan; M. Laborde; D.S. Covert; A. Marinoni; K. Imre; B. Henzing; J.-C. Roger; S. Martins dos Santos; R. Wilhelm; Y.-Q. Wang; G. de Leeuw. Angular Illumination and Truncation of Three Different Integrating Nephelometers: Implications for Empirical, Size-Based Corrections. *Aerosol Science and Technology* 43 (6), 587-603, 2008.
 18. P. Cristofanelli, A. Marinoni, J. Arduini, U. Bonafè, F. Calzolari, T. Colombo, S. Decesari, R. Duchi, M. C. Facchini, F. Fierli, E. Finessi, M. Maione, M. Chiari, G. Calzolari, P. Messina, E. Orlandi, F. Roccato, and P. Bonasoni. Significant variations of trace gas composition and aerosol properties at Mt. Cimone during air mass transport from North Africa – contributions from wildfire emissions and mineral dust. *Atmos. Chem. Phys.*, 9(14) 4603-4619, 2009.
 19. Cristofanelli, P., Bonasoni, P., Bonafè, U., Calzolari, F., Duchi, R., Marinoni, A., Roccato, F., Vuillermoz, E., Sprenger, M. Influence of lower stratosphere/upper troposphere transport events on surface ozone at the Everest-Pyramid GAW Station (Nepal): First year of analysis (2009) *International Journal of Remote Sensing*, 30 (15-16), pp. 4083-4097.
 20. Decesari, S., Facchini, M.C., Carbone, C., Giulianelli, L., Rinaldi, M., Finessi, E., Fuzzi, S., Marinoni, A., Cristofanelli, P., Duchi, R., Bonasoni, P., Vuillermoz, E., Cozic, J., Jaffrezo, J.L., Laj, P. Chemical composition of PM₁₀ and PM₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.) (2010) *Atmospheric Chemistry and Physics*, 10 (10), pp. 4583-4596. Cited 64 times.
 21. Decesari, S., Facchini, M.C., Carbone, C., Giulianelli, L., Rinaldi, M., Finessi, E., Fuzzi, S., Marinoni, A., Cristofanelli, P., Duchi, R., Bonasoni, P., Vuillermoz, E., Cozic, J., Jaffrezo, J.L., Laj, P. Chemical composition of PM₁₀ and PM₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.) (2010) *Atmospheric Chemistry and Physics*, 10 (10), pp. 4583-4596. Cited 64 times
 22. Marcq, S., Laj, P., Roger, J.C., Villani, P., Sellegri, K., Bonasoni, P., Marinoni, A., Cristofanelli, P., Verza, G.P., Bergin, M. Aerosol optical properties and radiative forcing in the high Himalaya based on measurements at the Nepal Climate Observatory-Pyramid site (5079 m a.s.l.) (2010) *Atmospheric Chemistry and Physics*, 10 (13), pp. 5859-5872. Cited 44 times.
 23. Cristofanelli, P., Bracci, A., Sprenger, M., Marinoni, A., Bonafè, U., Calzolari, F., Duchi, R., Laj, P., Pichon, J.M., Roccato, F., Venzac, H., Vuillermoz, E., Bonasoni, P. Tropospheric ozone variations at the nepal climate Observatory-Pyramid (Himalayas, 5079 m a.s.l.) and influence of deep stratospheric intrusion events (2010) *Atmospheric Chemistry and Physics*, 10 (14), pp. 6537-6549. Cited 33 times
 24. Yasunari, T.J., Bonasoni, P., Laj, P., Fujita, K., Vuillermoz, E., Marinoni, A., Cristofanelli, P., Duchi, R., Tartari, G., Lau, K.-M. Estimated impact of black carbon deposition during pre-monsoon season from Nepal Climate Observatory - Pyramid data and snow albedo changes over Himalayan glaciers (2010) *Atmospheric Chemistry and Physics*, 10 (14), pp. 6603-6615. Cited 62 times.

25. Marinoni, A., Cristofanelli, P., Laj, P., Duchi, R., Calzolari, F., Decesari, S., Sellegri, K., Vuillermoz, E., Verza, G.P., Villani, P., Bonasoni, P. Aerosol mass and black carbon concentrations, a two year record at NCO-P (5079 m, Southern Himalayas) (2010) *Atmospheric Chemistry and Physics*, 10 (17), pp. 8551-8562. Cited 74 times.
26. Sellegri, K., Laj, P., Venzac, H., Boulon, J., Picard, D., Villani, P., Bonasoni, P., Marinoni, A., Cristofanelli, P., Vuillermoz, E. Seasonal variations of aerosol size distributions based on long-term measurements at the high altitude Himalayan site of Nepal Climate Observatory-Pyramid (5079 m), Nepal (2010) *Atmospheric Chemistry and Physics*, 10 (21), pp. 10679-10690. Cited 29 times.
27. Gobbi, G.P., Angelini, F., Bonasoni, P., Verza, G.P., Marinoni, A., Barnaba, F. Sunphotometry of the 2006-2007 aerosol optical/radiative properties at the Himalayan Nepal Climate Observatory-Pyramid (5079ma.s.l.) (2010) *Atmospheric Chemistry and Physics*, 10 (22), pp. 11209-11221. Cited 23 times.
28. Bonasoni, P., Laj, P., Marinoni, A., Sprenger, M., Angelini, F., Arduini, J., Bonafè, U., Calzolari, F., Colombo, T., Decesari, S., Di Biagio, C., Di Sarra, A.G., Evangelisti, F., Duchi, R., Facchini, M.C., Fuzzi, S., Gobbi, G.P., Maione, M., Panday, A., Roccato, F., Sellegri, K., Venzac, H., Verza, G.P., Villani, P., Vuillermoz, E., Cristofanelli, P. Atmospheric Brown Clouds in the Himalayas: First two years of continuous observations at the Nepal Climate Observatory-Pyramid (5079 m) (2010) *Atmospheric Chemistry and Physics*, 10 (15), pp. 7515-7531. Cited 88 times.
29. Carbone, C., Decesari, S., Mircea, M., Giulianelli, L., Finessi, E., Rinaldi, M., Fuzzi, S., Marinoni, A., Duchi, R., Perrino, C., Sargolini, T., Vardè, M., Sprovieri, F., Gobbi, G.P., Angelini, F., Facchini, M.C. Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions (2010) *Atmospheric Environment*, 44 (39), pp. 5269-5278. Cited 55 times.
30. Reddington, C.L., Carslaw, K.S., Spracklen, D.V., Frontoso, M.G., Collins, L., Merikanto, J., Minikin, A., Hamburger, T., Coe, H., Kulmala, M., Aalto, P., Flentje, H., Plass-Dülmer, C., Birmili, W., Wiedensohler, A., Wehner, B., Tuch, T., Sonntag, A., O'Dowd, C.D., Jennings, S.G., Dupuy, R., Baltensperger, U., Weingartner, E., Hansson, H.-C., Tunved, P., Laj, P., Sellegri, K., Boulon, J., Putaud, J.-P., Gruening, C., Swietlicki, E., Roldin, P., Henzing, J.S., Moerman, M., Mihalopoulos, N., Kouvarakis, G., Ždímal, V., Ziková, N., Marinoni, A., Bonasoni, P., Duchi, R. Primary versus secondary contributions to particle number concentrations in the European boundary layer (2011) *Atmospheric Chemistry and Physics*, 11 (23), pp. 12007-12036. Cited 52 times.
31. Lentini, G., Cristofanelli, P., Duchi, R., Marinoni, A., Verza, G., Vuillermoz, E., Toffolon, R., Bonasoni, P. Mount Rwenzori (4750 M A.S.L., Uganda): Meteorological characterization and air-mass transport analysis (2011) *Geografia Fisica e Dinamica Quaternaria*, 34 (2), pp. 183-193. Cited 3 times.
32. Andrews, E., Ogren, J.A., Bonasoni, P., Marinoni, A., Cuevas, E., Rodríguez, S., Sun, J.Y., Jaffe, D.A., Fischer, E.V., Baltensperger, U., Weingartner, E., Coen, M.C., Sharma, S., Macdonald, A.M., Leaitch, W.R., Lin, N.-H., Laj, P., Arsov, T., Kalapov, I., Jefferson, A., Sheridan, P. Climatology of aerosol radiative properties in the free troposphere (2011) *Atmospheric Research*, 102 (4), pp. 365-393. Cited 42 times.
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36. Müller, T., Henzing, J.S., De Leeuw, G., Wiedensohler, A., Alastuey, A., Angelov, H., Bizjak, M., Collaud Coen, M., Engström, J.E., Gruening, C., Hillamo, R., Hoffer, A., Imre, K., Ivanow, P., Jennings, G., Sun, J.Y., Kalivitis, N., Karlsson, H., Komppula, M., Laj, P., Li, S.-M., Lunder, C., Marinoni, A., Martins Dos Santos, S., Moerman, M., Nowak, A., Ogren, J.A., Petzold, A., Pichon, J.M., Rodriguez, S., Sharma, S., Sheridan, P.J., Teinilä, K., Tuch, T., Viana, M., Virkkula, A., Weingartner, E., Wilhelm, R., Wang, Y.Q. Characterization and intercomparison of aerosol absorption photometers: Result of two intercomparison workshops (2011) *Atmospheric Measurement Techniques*, 4 (2), pp. 245-268. Cited 91 times.
37. Bonasoni, P., Cristofanelli, P., Marinoni, A., Vuillermoz, E., Adhikary, B. Atmospheric pollution in the Hindu Kush-Himalaya region (2012) *Mountain Research and Development*, 32 (4), pp. 468-479. Cited 5 times.
38. Bracci, A., Cristofanelli, P., Sprenger, M., Bonafé, U., Calzolari, F., Duchi, R., Laj, P., Marinoni, A., Roccato, F., Vuillermoz, E., Bonasoni, P. Transport of stratospheric air masses to the nepal climate observatory-pyramid (Himalaya; 5079 m MSL): A synoptic-scale investigation (2012) *Journal of Applied Meteorology and Climatology*, 51 (8), pp. 1489-1507. Cited 8 times.
39. Sajani, S.Z., Bonasoni, P., Cristofanelli, P., Marinoni, A., Lauriola, P. Only coarse particles from the sahara? (2012) *Epidemiology*, 23 (4), pp. 642-643. Cited 1 time.
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