Paolo Bonasoni – Curriculum vitae

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Education
Doctoral degree in Physics at the University of Bologna in 1985. Advisor: Prof. Ottavio Vittori.

Present position
Research Director at the Institute of Atmospheric Sciences and Climate of the Italian National Research Council.
Head of the "Ottavio Vittori" CNR GAW Global Station at Monte Cimone.
President of the PROAMBIENTE Industrial Research Consortium, Bologna CNR - Emilia Romagna Region Technopole.

Main research interest
He has more than 30 years research experience in the field of atmospheric studies and technological research in high mountain regions and in remote areas.
Since 1994 he is the head of the "O. Vittori" CNR GAW Global Station at Monte Cimone (2165 m, Italy), which he founded in the nineties.

He is involved as Principal Investigator or Scientific Responsible in more than 20 international and national Projects (see list below); involved in tropospheric ozone and atmospheric composition studies and experimental activities in Antarctica, Himalaya, Alps and Apennines. Since 2006 he is in charge of the Global GAW Station EvK2CNR Nepal Climate Observatory - Pyramid (5079 m) in the Himalaya. Since 2015 he is the head of the "Rita Atria" CNR GAW Regional Station at Capo Granitola (Sicily, TP). Since 2019 coordinator of the scientific activities of the Stazione Testa Grigia at Plateau Rosà (3500 m, north-western Italian Alps), a research infrastructure of the Dipartimento Scienze del sistema Terra e tecnologie per l'ambiente of CNR. Deputy in many scientific cooperation agreements; member of expeditions to Antarctica and Himalayas. Recently, coordinator for ISAC-CNR of CISAS "International Centre of advanced study in environment, ecosystem and human health" MIUR-FISR project and of the project NOSE - Network for Odor Sensitivity.
He has published more than 120 peer reviewed journal papers.

Teaching and education
Contract Professor of Environmental Physics Laboratory to the Department of Environmental Sciences of Urbino University, Italy, from 2002 to 2005.
In the year 2004 he promoted "Il Sentiero dell'Atmosfera - The Atmosphere Path", an educational path for schools and tourists on the slopes of Monte Cimone.

Roles and Activities
Responsibility or coordination of scientific international and national projects, many of them related to studies and technological researches in mountain or remote areas.

- Project Manager of the EU project VOTALP - Vertical ozone Transports in the Alps; 1996-1998.
- Project Manager of the EU project VOTALP II - Vertical ozone transports in the Alps; 1998-2000.
- Project Manager of the EU project MINATROC - MINeral dust And TROpospherich Chemistry; **2000**-2003.

- Project Manager of the EU project STACCATO "Influence of Stratosphere-Troposphere Exchange in a Changing Climate on Atmospheric Transport and Oxidation Capacity"; 2000-2002.
- Project Manager of the ESA project**:** DUP-POLPO Pollution Hot Spot Monitoring from GOME Applied to the Po-Basin; 2001-2002.
- Project Manager of the INRM Italian project **"**L'atmosfera e le montagne italiane dalle Alpi al Mediterraneo: identificazione e ruolo delle stazioni di monitoraggio in alta quota"; 2002-2003.
- Project Manager of the CESI Italian project **:** OZOMONT - Studio degli andamenti delle serie storiche di ozono troposferico rilevate nelle stazioni di Platau Rosa e di Monte Cimone; 2004-2004.
- Project Manager of the PNRA project DO3meCO2 - Trace gas concentrations and aerosol optical characteristic measurements at Terra Nova Bay and Dome Concordia stations; 2004-2007.
- Head of Unit in the framework of the EU project: ACCENT- Atmospheric composition change: a European network; 2004-2009.
- Project Manager of the EvK2CNR project**:** SHARE Station at High Altitude for Research on the Environment; 2005-2013.
- Project Manager of the CESI project OZOMONT II - Identificazione di processi di trasporto di masse d'aria di origine naturale ed antropica e valutazione della loro influenza in aree remote di alta montagna ed in aree urbane; 2005-2005.
- Head of Unit in the framework of AEROCLOUDS - Studio degli effetti diretti ed indiretti di aerosol e nubi sul clima; 2006-2009.
- Project Manager of the EU project EUSAAR - European Supersites for Atmospheric Aerosol Research; 2006-2011.
- Head of the Convention aimed at the realization of educational proposals and dissemination of scientific activities at the research station CNR-ISAC "O. Vittori" - Monte Cimone; 2004-2014.
- Project Manager of the SHARE-Tech Station at High Altitude for Research on the Environment - Advanced Technological Research and Development; 2008-**2**012.
- Project Manager of the EU project ACTRIS - Aerosols, Clouds, and Trace gases Research InfraStructure Network, 2012-**2**015.
- Head of Unit in the framework of Next-Data; 2013-2015.
- Project Manager of the MIUR PON project I-AMICA - Infrastruttura di Alta tecnologia per il monitoraggio Integrato Climatico-Ambientale; 2012-2015.
- Project Manager for ISAC-CNR Institute of the MIUR project: CISAS - Centro Internazionale di Studi Avanzati su Ambiente, ecosistema e Salute umana; 2016-2019.
- Project Manager of the POR-FESR project: INFORMARE - Sistema informativo integrato per il litorale emiliano-romagnolo; 2017-2019.
- Project Manager of the NOSE project - Network for Odor Sensitivity funded by ARPA Sicily; 2019-2022.
- Coordinator of Working Group on Cluster 6 - Environment Observations - Climate changes, "La rete APRE verso Horizon Europe" in the framework of APRE - Agenzia per la Promozione della Ricerca Europea, 2020.
- Coordinator on Working group: "CO_2 and other GHGs" in the Mirror Copernicus program, 2020-2021.
- Head of ISAC-CNR unit in the ALPACA "Analysis of Light absorbing PArticles: linking Crysophere to Atmosphere in Peruvian Andes" international project. 2020-2022.
- Project Manager of the NOSE-2 project - Network for Odor Sensitivity funded by ARPA Sicily; 2022-2024.
- President of the PROAMBIENTE Industrial Research Consortium, Bologna CNR - Emilia Romagna Region Technopole. 2022-2024

Related ISI Publications

- M. Vardè, C. Barbante, E. Barbaro, F. Becherini, **P. Bonasoni**, M. Busetto, F. Calzolari, G. Cozzi, P. Cristofanelli, F. Dallo, F. De Blasi, M. Feltracco, J. Gabrieli, A. Gambaro, N. Maffezzoli, E. Morabito, D. Putero, A. Spolaor, W. R.L. Cairns.; Characterization of atmospheric total gaseous mercury at a remote high-elevation site (Col Margherita Observatory, 2543 m a.s.l.) in the Italian Alps. Atmospheric environment 271, 1-19, DOI 10.1016/j.atmosenv.2021.118917. 2022.
- Dallo F.; Zannoni D.; Gabrieli J.; Cristofanelli P.; Calzolari F.; De Blasi F.; Spolaor A.; Battistel D.; Lodi R.; Cairns W. R. L.; Fjaeraa A. M.; **Bonasoni P.**; Barbante C.; Calibration and assessment of electrochemical low-cost sensors in remote alpine harsh environments. ATMOSPHERIC MEASUREMENT TECHNIQUES. Volume14, 9, 6005-6021.DOI10.5194/amt-14-6005-2021. 2021
- T.C. Landi, **P. Bonasoni**, M. Brunetti, J. Campbell, J. Marquis, P. Di Girolamo, S. Lolli. Aerosol direct radiative effects over highly-polluted areas in Europe and Mediterranean: a ten-years analysis (2007-2016). Remote Sens. 13(15), 2933; https://doi.org/10.3390/rs13152933. 2021.
- Trisolino, P.; di Sarra, A.; Sferlazzo, D.; Piacentino, S.; Monteleone, F.; Di Iorio, T.; Apadula, F.; Heltai, D.; Lanza, A.; Vocino, A.; Caracciolo di Torchiarolo, L.; **Bonasoni, P.**; Calzolari, F.; Busetto, M.; Cristofanelli, P. Application of a Common Methodology to Select in Situ CO2 Observations Representative of the Atmospheric Background to an Italian Collaborative Network in Atmosphere (Wash. D.C.). 10.3390/atmos12020246. 2021.
- Cristofanelli P.; Gutierrez I.; Adame J.A.; **Bonasoni P.**; Busetto M.; Calzolari F.; Putero D.; Roccato F. Interannual and seasonal variability of NOx observed at the Mt. Cimone GAW/WMO global station (2165 m a.s.l., Italy) in Atmospheric environment. 10.1016/j.atmosenv.2021.118245. 2021.
- Kumar P.; Kuttippurath J.; Von Der Gathen P.; Petropavlovskikh I.; Johnson B.; McClure-Begley A.; Cristofanelli P.; **Bonasoni P**.; Barlasina M.E.; Sanchez R. The Increasing Surface Ozone and Tropospheric Ozone in Antarctica and Their Possible Drivers in Environmental science & technology. 10.1021/acs.est.0c08491. 2021.
- P. Cristofanelli, J. Arduni, F. Serva, F. Calzolari, **P. Bonasoni**, M. Busetto, M. Maione, M. Sprenger, P. Trisolino and D. Putero. Negative ozone anomalies at a high mountain site in northern Italy during 2020: a possible role of COVID-19 lockdowns? in Environmental research letters. 10.1088/1748-9326/ac0b6a. 2021.
- A. Donateo, T. Lo Feudo, A. Marinoni, C.R. Calidonna, D. Contini, **P. Bonasoni**. Long-term observations of aerosol optical properties at three GAW regional sites in the Central Mediterranean. https://doi.org/10.1016/j.atmosres.2020.104976. Atmospheric Research, Volume 241, 2020.
- Cristofanelli, P.; Fierli, F.; Graziosi, F.; Steinbacher, M.; Couret, C.; Calzolari, F.; Roccato, F.; Landi, T.C.; Putero, D.; **Bonasoni, P**. Decadal O3 variability at the Mt. Cimone WMO/GAW global station (2,165 m a.s.l., Italy) and comparison with two high-mountain "reference" sites in Europe in Elementa, 10.1525/elementa.00042, 2020
- C. Perrino, S. Gilardoni, T. Landi, A. Abita, I.Ferrara, S.Oliverio, M. Busetto, F.Calzolari, M.Catrambone, P.Cristofanelli, S.Dalla Torre, G.Esposito, M Giusto, S.Mosca, S.Pareti, E.Rantica, T.Sargolini, G.Tranchida and **P. Bonasoni**. Air Quality Characterization at Three Industrial Areas in Southern Italy. Front. Environ. Sci. https://doi.org/10.3389/fenvs.2019.00196, 2020.

- K. Moore, P. Cristofanelli, **P. Bonasoni**, J. Semple. Was an avalanche swarm responsible for the devastation at Mount Everest Base Camp during the April 2015 Nepal Earthquake? High Altitude Medicine & Biology. HAM-2019_0069.R1. 2020.
- E. Brattich J. A. G. Orza P. Cristofanelli, **P. Bonasoni**, A. Marinoni, L. Tositti. Advection pathways at the Mt. Cimone WMO-GAW station: Seasonality, trends, and influence on atmospheric composition https://doi.org/10.1016/j.atmosenv.2020.117513. Atmospheric Environment. Volume 234, 2020.
- L. Naitza, P. Cristofanelli, A. Marinoni, F. Calzolari, F. Roccato, M. Busetto, D. Sferlazzo, E Aruffo, P.. Di Carlo, M. Bencardino, F. D'Amore, F. Sprovieri, N. Pirrone, F. Dallo, J Gabrieli, M. Vardè, G. Resci, C. Barbante, P. Bonasoni, D. Putero. Increasing the maturity of measurements of essential climate variables (ECVs) at Italian atmospheric WMO/GAW observatories by implementing automated data elaboration chains. Computer and Geosciences. Volume 137, 104432, 2020.
- P. Cristofanelli, J. Arduini, F. Calzolari, U. Giostra, **P. Bonasoni** and M. Maione: First Evidences of Methyl Chloride (CH3 Cl) Transport from the Northern Italy Boundary Layer during Summer 2017. Atmosphere, 11, 238; doi:10.3390/atmos11030238, 2020.
- E. Aruffo, P. Di Carlo, P. Cristofanelli and **P. Bonasoni**: Neural Network Model Analysis for Investigation of NO Origin in a High Mountain Site. Atmosphere, 11, 173; doi:10.3390/atmos11020173, 2020.
- K.Mansour, S.Decesari, M.Bellacicco, S.Marullo, R.Santoleri, **P. Bonasoni**, M. C.Facchini, J.Ovadnevaite, D.Ceburnis, C.O'Dowd, M.Rinaldi. Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. Atmospheric Research. Volume 237, 104837. https://doi.org/10.1016/j.atmosres.2019.104837. 2020.
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- M. Rinaldi, A. Nicosia, G. Santachiara, M. Piazza, M. Paglione, S. Gilardoni, S. Sandrini, P. Cristofanelli, A. Marinoni, **P. Bonasoni**, M.C.Facchini, F. Belosi. Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. Atmospheric Research 219, 57–64, 2019.
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- P. Cristofanelli. M. Busetto, E. Ronchi, P. Miatto, A. Marinoni, F. Calzolari, **P. Bonasoni**, L.A. Tagliafico. New "Smart" Systems for Atmospheric Aerosol and Reactive Gas Sampling in Ambient Air. Sensors, 18, 3602; doi:10.3390/s18113602, 2018.
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- M. Pandolfi, L. Alados-Arboledas, A. Alastuey, Marcos Andrade, B. Artiñano, J. Backman, U. Baltensperger, **P. Bonasoni**, N. Bukowiecki, M. Collaud Coen, S. Conil, Esther Coz, V. Crenn, V. Dudoitis, M. Ealo, K. Eleftheriadis, O. F., Prodromos Fetfatzis, M. Fiebig, H. Flentje, P. Ginot, M. Gysel, B. Henzing, A. Hoffer, A. Holubova Smejkalova, I. Kalapov, N. Kalivitis, G. Kouvarakis, A. Kristensson, M. Kulmala, H. Lihavainen, C. Lunder, K. Luoma, H. Lyamani, A. Marinoni, N. Mihalopoulos, M. Moerman, J. Nicolas, C. O'Dowd, T. Petäjä, J.-E. Petit, J. M. Pichon, N. Prokopciuk, J.P. Putaud, S. Rodríguez, J. Sciare,a, K. Sellegri, E. Swietlicki, G. Titos, T. Tuch, P.

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- D. Putero, A. Marinoni, **P. Bonasoni**, F. Calzolari, M. Rupakheti, P. Cristofanelli. Black Carbon and Ozone Variability at the Kathmandu Valley and at the Southern Himalayas: A Comparison between a "Hot Spot" and a Downwind High-Altitude Site. Aerosol and Air Quality Research, 18: 623–635. doi: 10.4209/aaqr.2017.04.0138, 2018.
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- D. Cesari, G. E. De Benedetto, **P. Bonasoni**, M. Busetto, A. Dinoi, E. Merico, D. Chirizzi, P. Cristofanelli, A.Donateo, F. M. Grasso, A. Marinoni, A. Pennetta, D. Contini. Seasonal variability of PM2.5 and PM10 composition and sources in an urban background site in Southern Italy. Science of The Total Environment. 612, 202-213, 2018.
- Cristofanelli P., Putero D., **Bonasoni P.**, Busetto M., Calzolari F., Camporeale G., Grigioni P., Lupi A., Petkov B., Traversi R., Udisti R., Vitale V. Analysis of multi-year near-surface ozone observations at the WMO/GAW "Concordia" station (75 degrees 06 ' S, 123 degrees 20 ' E, 3280 m a.s.l. - Antarctica) Atmospheric environment. Volume 177, March 2018, Pages 54-63, 2018.
- M. Rinaldi, G. Santachiara, A. Nicosia, M. Piazza, S. Decesari, S. Gilardoni, M. Paglione, P. Cristofanelli, A. Marinoni, **P. Bonasoni**, F. Belosi. Atmospheric Ice Nucleating Particle measurements at the high mountain observatory Mt. Cimone (2165 m a.s.l., Italy). Atmospheric Environment. 171, 173-180, 2017.
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- Adelaide Dinoi, Daniela Cesari, Angela Marinoni, **Paolo Bonasoni**, Angelo Riccio, Elena Chianese, Giuseppina Tirimberio, Attilio Naccarato, Francesca Sprovieri, Virginia Andreoli, Sacha Moretti, Daniel Gullì, Claudia R. Calidonna, Ivano Ammoscato, Daniele Contini. Inter-Comparison of Carbon Content in PM2.5 and PM10 Collected at Five Measurement Sites in Southern Italy. Atmosphere, 8 (12), 243; doi:10.3390/atmos8120243. 2017.
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- Rosa Claudia Torcasio, Stefano Federico, Claudia Roberta Calidonna, Elenio Avolio, Oxana Drofa, Tony Christian Landi, Piero Malguzzi, Andrea Buzzi, and Paolo **Bonasoni**. Three-model ensemble wind prediction in southern Italy. Annales Geophysicae, 34, 347–356, 2016.
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