

Paolo Bonasoni – Curriculum vitae

Paolo Bonasoni

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Laurea in Fisica presso l'Università di Bologna discussa con Prof. Ottavio Vittori.

Già Direttore di Ricerca presso l'Istituto di Scienze dell'Atmosfera e del Clima del Consiglio Nazionale delle Ricerche di Bologna, è attualmente Associate Senior Scientist.

Presidente del Consorzio PROAMBIENTE, Tecnopolo Bologna CNR-Regione Emilia-Romagna parte della Rete Alta Tecnologia Emilia-Romagna.

Ha promosso la realizzazione dell'Osservatorio Climatico del CNR "O. Vittori" al Monte Cimone (2165 m) e del "Nepal Climate Observatory - Pyramid" in Himalaya (5079 m), due GAW Global Stations di cui è stato il primo responsabile scientifico. E' stato responsabile della GAW Regional Station CNR "Rita Atria" a Capo Granitola (Sicilia) e responsabile scientifico della Stazione CNR Testa Grigia a Plateau Rosà GAW Regional Station (3480 m, Alpi) infrastruttura di ricerca del Dipartimento Scienze del sistema Terra e tecnologie per l'ambiente.

Nel 2004 ha promosso "Il Sentiero dell'Atmosfera", percorso didattico-formativo per scuole e turisti alle pendici del Monte Cimone e nel 2019 l'iniziativa "Rifugi Sentinella del Clima e dell'Ambiente", progetto congiunto CNR-CAI (Club Alpino Italiano).

Ha oltre 30 anni di esperienza nel campo degli studi atmosferici sulla composizione dell'atmosfera e sui processi atmosferici in alta montagna e in aree remote, nella ricerca tecnologica e nel trasferimento tecnologico.

Già professore a contratto di Laboratorio di Fisica dell'Ambiente presso il Dipartimento di Scienze Ambientali dell'Università di Urbino.

È stato responsabile di numerosi progetti in ambito nazionale ed internazionale e di accordi di cooperazione scientifica; attualmente è responsabile del progetto NOSE – *Network for Odour Sensitivity*, sistema per lo studio e il monitoraggio dei miasmi olfattivi che ha ideato nel 2019.

Ha promosso e partecipato ad attività sperimentali in Antartide, Himalaya e sulle Alpi.

Ha pubblicato oltre 150 articoli scientifici in articoli di riviste peer-reviewed, partecipando a numerosi convegni.

Ruoli e attività

Responsabilità o coordinamento di progetti scientifici internazionali e nazionali, molti dei quali relativi a studi e ricerche in aree montane o remote.

- 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 TROpospheric 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; 2008-2012.
- Project Manager of the EU project ACTRIS - Aerosols, Clouds, and Trace gases Research InfraStructure Network, 2012-2015.
- Head of Unit in the framework of Next-Data; 2013-2015.
- Project Manager of the PON project I-AMICA - Infrastruttura di Alta tecnologia per il monitoraggio Integrato Climatico-Ambientale; 2012-2015, active until 2020.
- 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 ARPA Sicily project: NOSE – Network for Odour sensitivity; 2019-2021.
- Coordinatore del Working Group on Cluster 6 - Environment Observations - Climate changes, "La rete APRE verso Horizon Europe" nel framework APRE - Agenzia per la Promozione della Ricerca Europea, 2020.
- Coordinatore del Working group of CO₂ and other GHGs del programma Mirror Copernicus, 2020.
- Head of ISAC-CNR unit in the ALPACA international project. 2020-2022.
- Project Manager of the ARPA Sicily project: NOSE-2 – Network for Odour sensitivity; 2022-2024.
- Project Manager of the ARTA Abruzzo project: valutazione delle molestie olfattive in aree della Regione Abruzzo; 2022-2024.
- Presidente del Consorzio PROAMBIENTE, Tecnopolo Bologna CNR - Regione Emilia-Romagna; 2022-2025.

Pubblicazioni ISI

- Cong Z., Arduini J., Chen Y., Saikawa E., Yao T., Zhang Q., Xie M., Tan L., Maione M., **Bonasoni P.**, Wan X. Trends of halocarbons in the Himalayan atmosphere and implications. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2024.177348. 2024.
- Villalobos-Puma E., L., Suarez, S. Gillardoni, **P. Bonasoni**, Paolo, Y.F. Silva, Yamina F. Atmospheric black carbon observations and its valley-mountain dynamics: Eastern cordillera of the central Andes of Peru. *Environmental Pollution*, DOI: 10.1016/j.envpol.2024.124089. Volume 355, 15, 124089. 2024
- P., Cristofanelli, P. Trisolino, F. Calzolari, **P. Bonasoni**, D. Putero, Influence of wildfire emissions to carbon dioxide (CO₂) observed at the Mt. Cimone station (Italy, 2165 m asl): A multi-year investigation. *Atmospheric Environment*, DOI: 10.1016/j.atmosenv.2024.120577 Volume 330, 120577, 2024.
- S. Trini Castelli; F. Ubaldi; G. Tinarelli; O. Drofa; P. Malguzzi; **P. Bonasoni**. Tracing the origin of odour nuisance from citizens' notifications with the SMART modelling system *Atmospheric Environment*. 2023-11. DOI: 10.1016/j.atmosenv.2023.119992. 2023.
- Gilardoni, S., Di Mauro, B., **Bonasoni, P.** Black carbon, organic carbon, and mineral dust in South American tropical glaciers: A review. DOI: 10.1016/j.gloplacha.2022.103837. *Global and Planetary Change*, 2022, 213, 103837. 2022.
- Chianese, E.; Tirimberio, G.; Dinoi, A.; Cesari, D.; Contini, D.; **Bonasoni, P.**; Marinoni, A.; Andreoli, Vi.; Mannarino, V.; Moretti, S.; Naccarato, A.; Sprovieri, F. Particulate Matter Ionic and Elemental Composition during the Winter Season: A Comparative Study among Rural, Urban and Remote Sites in Southern Italy. *Atmosphere*, 13(2), 356. 2022.
- 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.
- F. Bianchi , H. Junninen , A. Bigi, V. A. Sinclair, L. Dada, C. R. Hoyle, Q. Zha, L. Yao, L. R. Ahonen, **P. Bonasoni**, S. Buenrostro Mazon, M. Hutterli, P. Laj, K. Lehtipalo, J. Kangasluoma, V.-M. Kerminen, J. Kontkanen, A. Marinoni, S. Mirme, U. Molteni, T. Petäjä, M. Riva, C. Rose, K. Sellegri, C. Yan, D. R. Worsnop, M. Kulmala, U. Baltensperger and J. Dommen. Biogenic particles formed in the Himalaya as an important source of free tropospheric aerosols. DOI: 10.1038/s41561-020-00661-5 *Nature Geoscience* 14, 4–9. 2021.
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- 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.
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- A. Donato, T. Lo Feudo, A. Marinoni, A. Dinoi, E. Avolio, E. Merico, C.R. Calidonna, D. Contini and **P. Bonasoni**. Characterization of In Situ Aerosol Optical Properties at Three Observatories in the Central Mediterranean. *Atmosphere* 9(10), 369; <https://doi.org/10.3390/atmos9100369>, 2018.
- 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 Fefatzis, 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. Tunved, V. Ulevicius, A. Vaishya, M. Vana, A. Virkkula, S. Vratolis, E. Weingartner, A. Wiedensohler and P. Laj. A European aerosol phenomenology-6: Scattering properties of atmospheric aerosol particles from 28 ACTRIS sites, *Atmos. Chem. Phys.*, 18, 7877-7911, 2018, <https://doi.org/10.5194/acp-18-7877-2018>.
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