

**Grazia Ghermandi**

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**Education:** Ms. Degree Summa cum laude, Geological Science, University of Modena, 1977

**Professional Experience**

Full professor of Environmental Engineering - University of Modena and Reggio Emilia, Italy, 31/12/2002 - present  
Associate professor - University of Modena and Reggio Emilia, Italy, 01/11/1992 - 30/12/2002  
Assistant professor- University of Modena, Italy, 01/02/1984 - 31/10/1992  
Retired on November 1, 2024, senior professor at UNIMORE for a three-year term.

**Academic assignments**

President of the Courses of Environmental Engineering (Degree and Ms. Degree) at University of Modena and Reggio Emilia - 2003-2016  
Member of the Management Board of Modena and Reggio Emilia University, 2010 - 2015  
Modena and Reggio Emilia University reference for Italian University Sustainability Network (RUS-CRUI), 2015 – until retirement  
Coordinator of the Teaching Committee of Dept. Eng. “Enzo Ferrari” (a.y.2015/16 - a.y. 2017/18).  
Rector Delegate for Sustainability 2019 – until retirement  
Coordinator for UNIMORE of the National Ph.D. SDC Board 2021 – until retirement  
Member of PhD in Industrial and Environmental Engineering Board up to 2022.  
2023 - until retirement - Member of PhD in Civil, Environmental and Material Engineering Board.

**Research interest**

Air pollution, environmental impact assessments, simulation models for pollutant atmospheric dispersion at urban scale and micro scale, measurements and characterization of atmospheric aerosol (particulate matter) and of emission fumes. In the past also: natural water pollution (Venice lagoon system), glaciology and climatic change.  
Head scientist of FISAMB-MO experiment installed at accelerator AN-2000 of Laboratories of 'National Institute of Nuclear Physics (INFN) in Legnaro (Padova) (1988 - present)

**Fellowships**

Fellow of the “Accademia Nazionale di Scienze, Lettere e Arti di Modena,” Italy, 2018 - present

**Reviewer for several international journals**

Member of the Scientific Committee of the journal *Ingegneria dell’Ambiente* (ISSN and e-ISSN 2420-8256)  
Guest Editors for Special Issues (Atmosphere, MDPI : IF 2.3 citescore 5.4 Scopus)

**Financed research projects and fundraising**

EU research competitive projects:

2022 - until retirement Project “ECOSYSTEM FOR SUSTAINABLE TRANSITION IN EMILIA-ROMAGNA”  
ECOSISTER - (PNRR) - Spoke 4 “*Smart mobility, housing and energy solutions for a carbon-neutral society*”:  
Pillar Training (TTIP) Coordinator. After retirement, expert consultant until the project completion.

2022 - 2024 WP leader of Erasmus + U-GREEN project (KA220-HED - Cooperation partnerships in higher education Call 2021 Round 1)

2019 – 2021 Involved as Environmental Expert in TRAFAIR EU project, Understanding traffic flows to improve air quality, <http://trafair.eu/>

Scientific responsible of local unit in national research competitive projects:

PRIN 2001, PRIN 2006, PRIN 1996, PRIN 1995, COFIN 1991.

PNRA 1994 to 2005 (Programma Nazionale Ricerche in Antartide), glaciology and climatic change

CNR 1989 to 1996 (National Research Council) 12 Projects - Physics and Environment Committees

Local unit participant in PRIN 2010-2011 and PRIN 1999

Scientific responsible of unit in international research competitive projects:

1991 European Science Foundation ESF 1991 - Greenland Ice Core Project

IAEA 1989 - International Atomic Energy Agency

Scientific responsible of research agreements:

2021, 2017 and 2008 \_ ARPAE ER Research agreements: atmospheric pollution simulation models, pollutant emission sources.

2005 – present\_ Head of GRITT - Industrial Research Group and Technology Transfer - LABORATORY OF ANALYSIS, SURVEYING AND ENVIRONMENTAL MONITORING. Project: "environmental" vehicle monitoring. In : SIMECH - Simulation and Integrated Planning Lab and INTERMECH-MORE Lab, Interdepartmental Center for Applied Research and Services in Advanced Mechanics and Motoring - High Technology Network of the Emilia-Romagna Region

2003 - ISPESL B54/DIPIA/03 – remote sensing for air pollution simulation models

2003 - CNR/GNDICI-DPC-2003 Civil Protection, natural disasters (Grandi Rischi)

Responsible of several applied research contracts with local and national companies

### **Appointments**

2010 and 2013 - Expert for the Judge (Civil Court of Bologna) - Impact on air quality of PM10 during the activities set up for the construction of the new High Speed Station in Bologna (high speed line MI-NA) and of the works necessary to allow its activation.

2015 - 2023 - Member of the Management Board of "Fondazione di Modena".

2021 - until retirement, as Rector Delegate for Sustainability, represented UNIMORE in the the Pact for Work and Climate of the Emilia Romagna Region.

2023 - 2026 - Member of the Management Board of Hera S.p.A., INRETE S.p.A, HERAtch S.r.L.

Bibliometrics: papers 86, citations 1115, H Index 17

### **Recent papers**

<https://unimore.unifind.cineca.it/get/person/014145>

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