

FRANCESCA COSTABILE

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Research Director | National Research Council (CNR) | Institute of Atmospheric Sciences and Climate (ISAC) |
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PROFESSIONAL PROFILE

Over 25 years of experience in Urban Atmospheric Science, specializing in the impact of urban atmospheric aerosols (ultrafine particles, black carbon) on human and planetary health through a One Health/Planetary Health approach.
10-year experience as contracted scientific expert in international research projects for European Union institutions (DG MOVE, EASA, REA, CINEA, HADEA).
15-year experience as contract professor for university teaching.
Total competitive funding secured as Principal Investigator: €12.6 million. Scholar h-index: 30.

INSTITUTIONAL AND ACADEMIC POSITIONS

Period	Role	Details
2009/now –	Junior researcher/ Senior researcher/ Research director (2023/now)	CNR-ISAC (Istituto di Scienze dell'Atmosfera e del Clima). STAFF.
2018/now	Habilitation as associate professor (Abilitazione Scientifica Nazionale)	associate professor (Area 02 – Fisica/Astrofisica, Geofisica).
2012/now	Contracted Professor	Università di Roma "Tor Vergata" , Dipartimento di Fisica (Courses: Atmospheric Chemodinamics, Air Pollution, 8 CFU).
2002 – 2009	PhD student, post Doc and Fellowship	CNR – Istituto per l’Inquinamento Atmosferico (IIA)/ Università di Roma "Tor Vergata" ,

INTERNATIONAL EXPERIENCE AND EU ADVISORY ROLES

- **Contracted Scientific Expert for CINEA, REA and HADEA of the European Union for Horizon Europe projects, and MSCA and ERC grants (2020–2026)**
- **Contracted Scientific Expert for EASA** (European Union Aviation Safety Agency) (2021–2025): CAQIII project on aircraft cabin air quality.
- **Contracted Scientific Expert and Chair of the DG MOVE / European Commission**, Directorate-General for Mobility and Transport) Scientific Committee (2017–2020): FACTS project on aviation air quality.
- International Project Coordination: Scientific coordinator of more than 20 international projects, including the Sino-Italian Cooperation Program, European projects, and national projects, with a **total budget as Principal Investigator (PI) of approximately €12.6 million**.
- Visiting Researcher: **Max Planck Institute for Chemistry** (Mainz, 2024, 2026); **Leibniz Institute for Tropospheric Research** (Germany, 2008); **Tsinghua University and Peking University** (China, 2002–2007).

EDUCATION

Year	Title	Institution	details
2008	PhD	Università di Roma "Tor Vergata"	Mechanical engineering
2002	Master’s degree (postgraduate)	Università di Roma "La Sapienza"	Chemistry
2000	Master’s degree (laurea Vecchio ordinamento)	Università di Roma "La Sapienza"	Environmental engineering (110/110 cum laude)

PUBLICATIONS AND EXPERTISE

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- Publications: Author of approximately 70 peer-reviewed scientific papers (more than 20 as first author), scholar h-index = 30.
- Research Areas: aerosol microphysics, ultrafine particles (UFP), black carbon (BC), particle size distributions, urban air quality, modelling, health impacts, and planetary health.
- Languages: Italian (native), English (fluent), French (fluent), German (basic), Chinese (basic).