

# Curriculum Vitae

## ANNA MARIA SIANI

### Personal information

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Web of Science Researcher ID: CCO-5801-2022

### Position and Current Academic Appointments:

- Associate Professor SC: 02/C1, SSD: FIS06 (Fisica per il sistema terra e per il mezzo circumterrestre) at the Physics Department, Sapienza Università di Roma.
- National Scientific Qualification to function as Full Professor in Italian Universities Abilitazione SC: 02/C1, SSD: FIS/06 (Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Prima Fascia nel Settore Concorsuale 02/C1, SSD FIS/06).
- Member of the PhD Committee in Information and Communications Technologies - ICT, Sapienza Università di Roma.
- Member of the Committee for Placement and Internship of Physics Department, Sapienza Università di Roma.
- Member of the International Committee of the Faculty of Mathematical, Physical and Natural Sciences.
- Member of Ethics Committee of Sapienza Università di Roma.
- Member of the Executive and Scientific Committee of Center for Applied Sciences to the safeguard of Environment and Cultural Heritage (CIABC), Sapienza Università di Roma.
- Coordinator of the Master's Degree in Science and Technology for the Conservation of Cultural Heritage- Laurea Magistrale in Scienze e Tecnologie per la Conservazione dei Beni Culturali, Sapienza Università di Roma.

### Bibliometry (updated March 2024):

Publications: 114 (Scopus), 103 (WoS)

Total citations: 1594 (Scopus), 1428 (WoS)

Hirsch (H) index: 22 (Scopus), 22 (WoS)

### Education

- 1988: Post-graduate studies, Corso di specializzazione in Fisica dell'Atmosfera, Servizio Meteorologico dell'Aeronautica Militare.
- 1987: Degree in Physics, Sapienza Università di Roma.

### Academic Appointments

- 2001 - 2018: Researcher SSD FIS/06, Physics Department, Sapienza Università di Roma.
- 1990 – 2001: Technologist at the Physics Department, Sapienza Università di Roma.
- 2001 to the present: Responsible for the Research Group in Meteorology (GMET), at the Physics Department, Sapienza Università di Roma.

- 2001 to the present: Responsible for Solar Radiometry Observatory, Physics Department, Sapienza Università di Roma. Since 2016 the Solar Radiometry Observatory is a part of BAQUNIN supersite (<https://www.baqunin.eu/>).
- 2013 to the present: Member of the PhD Committee in Information and Communications Technologies - ICT, Sapienza Università di Roma.
- 2012: Member of the PhD Committee in Ingegneria Elettronica e Telerilevamento, Sapienza Università di Roma.
- 2009 – 2011: Member of the PhD Committee in Remote Sensing, Sapienza Università di Roma.
- 2003 – 2007: Member of the PhD Committee in Physics, Sapienza Università di Roma.
- 2015 to the present: Member of the Executive and Scientific Committee of Center for Applied Sciences to the safeguard of Environment and Cultural Heritage (CIABC), Sapienza Università di Roma.
- 2007 to the present: Member of Research Center for Applied Sciences to the safeguard of Environment and Cultural Heritage (CIABC), Sapienza Università di Roma.
- 2009–2015: Member of the Technical Scientific Committee of Patents at Sapienza Università di Roma.
- 2015 to the present: Member of Ethics Committee of Sapienza Università di Roma.
- 2012 to the present time: Promoter Erasmus Programme Training Agreement, mobility project Leibniz Universitaet Hannover (Germany).
- 2023 to the present time: Promoter of Erasmus Programme Mobility for learners and staff Higher Education Student and Staff Mobility with Norwegian University of Science and Technology (NTNU).
- 2013 – 2017: Management Committee Member for Italy in the COST Action. n ES1207: “A European BREWer NETwork – EUBREWNET”.
- 2004 – 2009: Management Committee Member for Italy in the COST Action 726 "Long term changes and climatology of UV radiation over Europe".
- 2018 to the present: Evaluator for MIUR Reprise Ricerca di base, per i Settori ERC: Meteorology, atmospheric physics and dynamics (PE10\_2), Ozone, upper atmosphere, ionosphere (PE10\_16), Earth observations from space/remote sensing (PE10\_14).
- 2019 to the present: Associate Professor SSD FIS/06, Physics Department, Sapienza Università di Roma.
- 2019 -2022: P.I. for the Research Unit of Sapienza Università di Roma in the CollectionCare project (the European Union’s Horizon 2020 Grant agreement No 814624).
- 2019-2022: Member of Sapienza Research Unit in the project MicroClimArt (Regione Lazio - “Beni Culturali e Turismo” POR FESR LAZIO 2014 – 2020 determina G16395 del 28/11/2017, <https://microclimart.it>).
- 2020-2022: Scientific collaborator to the SOUVENIR (SOLar UV Extensive Network for Information and Reporting) project.
- 2021 to the present time: Responsible for 2 Researchers (RTDa) in FIS/06 in the framework of DM 1062, Programma Operativo Nazionale (PON) “Ricerca e Innovazione” 2014-2020 tematiche Green.
- 2022: Member of Research Unit in the project “Monitoring, Assessment And Preventive Conservation Of Heritage Against Climate Change”, in PE5 – CHANGES “Cultural Heritage Active Innovation for Sustainable” - Spoke 7.
- 2023 to the present time: Member of Sapienza Research Unit in the project “uRban hEat and pollution iSlands inTerAction in Rome and possible miTigation strategies (RESTART)”, PRIN: Progetti Di Ricerca Di Rilevante Interesse Nazionale – Bando 2022.

- 2023 to the present time: Member of the Committee for Placement and Internship of Physics Department, Sapienza Università di Roma.
- -2023 -2025 : P.I of the project “Challenges and opportunities to monitor climate change impacts in the Rome urban area: a multi-scale approach” (Progetto Grande di Ateneo).
- 2023 to the present time: Coordinator of the Master’s Degree in Science and Technology for the Conservation of Cultural Heritage- LM in Scienze e Tecnologie per la Conservazione dei Beni Culturali, Sapienza Università di Roma.

### **Society memberships, Awards and Honors**

- 2018: Award for outstanding contribution in reviewing, Journal of Photochemistry & Photobiology, B: Biology
- 2017 to the present: Member of Associazione Italiana di Scienze dell’atmosfera e Meteorologia (AISAM).
- 2017: Award for outstanding contribution in reviewing Science of the Total Environment
- 1996 – 2010: Member of the Advisory Board, Società Italiana di Meteorologia Applicata.

### **Reviewer for the following Journals:**

Science of the Total Environment (Elsevier)

Atmospheric Chemistry and Physics (Copernicus Publications)

Atmospheric Measurement Techniques (Copernicus Publications)

The European Physical Journal Plus (Springer)

Photochemistry and Photobiology (Wiley online)

Photochemical and Photobiological Sciences (RSCPublishing)

Journal of Photochemistry and Photobiology B: Biology (Elsevier)

### **Invited Reviewer from the UNEP Environmental Effects Assessment Panel**

- 2022: Quadrennial Assessment 2022: Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change.
- 2018: Report on Environmental Effects of Ozone Depletion and Interactions with Climate Change.
- 2014: Report on Environmental Effects of Ozone Depletion and Interactions with Climate Change.

### **Editor:**

- 2021 to the present: Guest Editor of Special Issue "Atmospheric Environment and Cultural Heritage Protection" in Atmosphere [https://www.mdpi.com/journal/atmosphere/special\\_issues/atmospheric\\_cultural\\_heritage](https://www.mdpi.com/journal/atmosphere/special_issues/atmospheric_cultural_heritage).
- 2018 - 2020: Editor of Special Issue on “Measuring Personal Exposure to Solar Ultraviolet Radiation Using Dosimetric techniques” in "Atmosphere" ([https://www.mdpi.com/journal/atmosphere/special\\_issues/Solar\\_Ultraviolet\\_Radiation](https://www.mdpi.com/journal/atmosphere/special_issues/Solar_Ultraviolet_Radiation)).
- 2016: Guest Editor of the Special Issue on "Sensors and data processing in Cultural Heritage and Archeology" (<http://www.hindawi.com/journals/JS/si/520656/cfp/>).
- 2012 – 2014: Member of the editorial board of ISRN Atmospheric Sciences.

### **Teaching Activities at Sapienza Università di Roma:**

- 2022 to the present: Introduzione alla Fisica dell’atmosfera (Laurea Triennale in Fisica)
- 2018 to the present: Fundamentals of Meteorology (Laurea Magistrale in Atmospheric Science and Technology for Meteorology & Climate, LMAST4MC).

- 2010 to the present: Laboratorio di Fisica per l'analisi del microclima (Laurea Magistrale in Scienze e Tecnologie per la Conservazione dei Beni Culturali).
- 2010 to the present: Valutazione del Rischio Ambientale (Laurea triennale in Tecnologie per la Conservazione e il Restauro dei Beni Culturali).
- A.M. Siani was tutor/co-tutor of several students of Bachelor's Degree in Tecnologie per la Conservazione e il Restauro dei Beni Culturali.
- A.M. Siani was the advisor for 10 theses of Master Degree in Scienze e Tecnologie per la Conservazione dei Beni Culturali and 20 theses of Master Degree in Fisica curriculum Geofisica.
- A.M. Siani was the supervisor of 4 Bachelor's Degree students (3 from Leibniz Universitaet Hannover and 1 from Georg-August University of Gottingen, Germany) in the framework of Erasmus Program Internship Mobility Project.

A.M. Siani was the evaluator of more than 100 undergraduate students of Bachelor's Degree in Tecnologie per la Conservazione e il Restauro dei Beni Culturali and Bachelor's Degree in Fisica.

A.M. Siani was Supervisor of 2 PhD students in Biophysics, 3 PhD students in Remote Sensing of atmospheric constituents, 4 PhD students in Science Applied to Cultural Heritage, co-supervisor of 3 PhD students in Remote Sensing of atmospheric constituents. At the present time AM Siani is currently the supervisor of 3 PhD students in Science Applied to Cultural Heritage and member of the Advisory Committee of 2 PhD students in PhD in Information and Communications Technologies - ICT, curriculum Radar and Remote Sensing.

#### **Admission exam to PhD courses**

- 2019: Admission Committee Member, Dottorato in Scienze della Terra (XXXV ciclo).
- 2016: Admission Committee Member, Dottorato in Tecnologie dell'Informazione e delle Comunicazioni (XXXII ciclo).
- 2015: Admission Committee Member, Dottorato in Scienze della Terra (XXXI ciclo).
- 2012: Admission Committee Member, Dottorato in Ingegneria Elettronica e Telerilevamento (XXVIII ciclo).
- 2010: Admission Committee Member, Dottorato in Telerilevamento (XXVI Ciclo).

#### **Final PhD exam**

- 2023: Committe Member, Dottorato in Fisica (XXXV ciclo), Università dell'Aquila.
- 2019: Committe Member, Dottorato in Fisica (XXXI ciclo), Università dell'Aquila.
- 2018: Committe Member, Dottorato in Fisica (XXXI ciclo), Università dell'Aquila.
- 2015: Committe Member, Dottorato in Biofisica (XXVII ciclo), Sapienza Università di Roma.
- 2013: Committe Member, Dottorato in Fisica (XXV ciclo), Università dell'Aquila.

#### **Research Activities**

Current research activities comprise:

- study of atmospheric constituents, mainly total ozone, nitrogen dioxide, and solar UV irradiance by means of Brewer spectrophotometry;
- dynamics of the atmosphere;
- urban climate;
- quantification of personal exposure to solar UV radiation using dosimetric techniques;
- microclimate studies for Cultural Heritage preservation;
- environmental analyses and the environment-induced degradation on artworks.

### **The main scientific collaborations**

- 2020 to the present: Norwegian University of Science and Technology, Norway, Prof. Chiara Bertolin Department of Mechanical and Industrial Engineering.
- 2019 to the present Universitat Politècnica de València, Spain, Prof. Fernando-Juan García-Diego Department of Applied Physics.
- 2019-2021: Finnish Meteorological Institute, Space and Earth Observation Centre, Finland.
- 2016 to the present: Tor Vergata University of Rome, Italy, Prof. Cristina Cornaro Department of Enterprise Engineering.
- 2013 to the present: The Institute of Atmospheric Sciences and Climate, National Research Council (CNR-ISAC), Italy, Prof. Dario Camuffo Unit Research of Padova.
- 2007 to the present: Aosta Valley Regional Environmental Protection Agency (ARPA) Aosta, Italy, Henri Diemoz.
- 1996 to the present: Leibniz Universität Hannover, Germany, Prof. Gunther Seckmeyer Institut für Meteorologie und Klimatologie.
- 2012 – 2016: The University of Southern Queensland, Australia, Prof. Alfio Parisi Faculty of Health, Engineering and Sciences.
- 2007 – 2011: Queensland University of Technology, Australia, Prof. Michael Kimlin Institute of Health and Biomedical Innovation.
- 2006-2011: Istituto Superiore per la Prevenzione E la Sicurezza del Lavoro (ISPESL), Occupational Hygiene Department, Italy.

### **Organizer / Member of the Scientific Committee (O) / chair (C) of conferences, sessions and meetings in the last 10 years.**

- 2024: (O) (C) Celebrazione della Giornata Meteorologica Mondiale (73esima edizione), Roma 23 Marzo 2024
- 2023: (O) ESICC Conference 2023 - Energy efficiency, Structural Integrity in historical and modern buildings facing Climate change and Circularity, Lisbon July 4th 2023.
- 2023: (O) (C) Celebrazione della Giornata Meteorologica Mondiale (73esima edizione), Roma 23 Marzo 2023.
- 2022: (O) (C) Celebrazione della Giornata Meteorologica Mondiale (72esima edizione), Roma 23 Marzo 2022.
- 2021: (C) Session “Predictive analysis of cultural objects and preventive conservation” at the Conference “New Challenges in Preventive Conservation, Predictive Analysis and Environmental Monitoring”, Universitat Politècnica De València (Valencia, Spain) 1-3 December 2021
- 2021: (O) (C) Celebrazione della Giornata Meteorologica Mondiale (71esima edizione), Roma 23 Marzo 2021.
- 2020: (O) 3° Congresso Nazionale dell'Associazione Italiana di Scienze dell'Atmosfera e Meteorologia, L'Aquila, 9-12 febbraio 2021.
- 2020: (O) Technical Project Meeting (Roma) of CollectionCare project (funding from the European Union’s Horizon 2020 research and innovation programme Grant Agreement No 814624).
- 2019: (O) VII Convegno Nazionale Agenti Fisici Monitoraggio ambientale: dalla produzione all’analisi del dato 5-7 giugno 2019, Stresa
- -2019: (O) Prima Conferenza Nazionale sulle Previsioni Meteorologiche e Climatiche Regione Emilia-Romagna, 17–18 giugno 2019, Bologna
- 2019: (O) Celebrazione della Giornata Meteorologica Mondiale (69esima edizione), Roma 23 Marzo.

- 2019: (O) Conference “International Day of Women and Girls in Science”, Dipartimento di Fisica, Sapienza Università di Roma.
- 2018: (O) Summer School “SOlar Radiation Based Established Techniques for aTmospheric Observations”, Sapienza Università di Roma 2-6 July, 2018
- 2018: (O) (C) Celebrazione della Giornata Meteorologica Mondiale (69esima edizione), Roma 23 Marzo 2018.
- 2017: (O) (C) Celebrazione della Giornata Meteorologica Mondiale (68esima edizione), Roma 23 Marzo 2017.
- 2012: (O) V Convegno Nazionale Il controllo degli Agenti Fisici: Ambiente, Salute e qualità della vita, Novara.

### **Third Mission Activities**

- 2024: Responsabile del Percorso per le Competenze Trasversali e per l'Orientamento
- Laboratorio Diffuso di Fisica Sapienza Università di Roma, “Non perdiamo il “Tempo”: adotta una serie storica di dati meteorologici di Roma” (PROGETTO 112355).
- 2017-2024: Organizzatore della Celebrazione della Giornata Meteorologica Mondiale, Aula Magna, Rettorato Sapienza Università di Roma
- 2022 to the present: member of the Third mission project “Secret Baroque. Miniserie di prodotti audiovisivi di taglio storico-documentaristico, con finalità didattico-divulgative” (funded by Sapienza Università di Roma).
- 2017 to the present: Percorso per le Competenze Trasversali e per l'Orientamento
- Laboratorio Diffuso di Scienze dei Beni Culturali, modulo Clima4Art
- 2018 “Festival della Meteorologia”, Rovereto with a contribution on solar UV radiation and ozone.
- 2017 “Festival della Meteorologia”, Rovereto, with a contribution on solar UV radiation and ozone.
- 2015 “Festival della Meteorologia”, Rovereto, with a contribution on solar UV radiation and ozone.
- 2015 “Scienza nei mercati” Roma, with a contribution on solar UV radiation and ozone.