

DOMENICO CIMINI – SHORT RESUME

SHORT BIOSKETCH

Domenico Cimini received the laurea and Ph.D. degrees in Physics from the University of L'Aquila, Italy. Since 2002, he has been researcher at the Center of Excellence for Remote Sensing and Modeling of Severe Weather (CETEMPS, L'Aquila, Italy), Research assistant at the Cooperative Institute for Research in Environmental Sciences (CIRES, University of Colorado, Boulder, USA), Adjunct Professor at the Department of Electrical and Computer Engineering (University of Colorado, Boulder, USA).

Dr. Cimini has more than twenty-year experience with ground- and satellite-based passive remote sensing. He participated as investigator and co-principal investigator to several international projects funded by the EU research frameworks (EURAINSAT, FUTUREVOLC, GAIA-CLIM), the European Space Agency (REFDAT4ESAMWR, WRad, METAWAVE), EUMETSAT (APPLES, ComboCloud), the Italian Space Agency (FLORAD, ROSA 2G), and the U.S. Department of Energy (DoE) Atmospheric Radiation Measurement (ARM) program.

Currently, Dr. Cimini is chair of the World Meteorological Organization (WMO) Expert Team on Upper-air Measurement (ET-UAM). He is also chair of the Expert Team on Microwave Radiometers Profilers (ET-MWRP) within the EUMETNET E-PROFILE program and co-chair of the Ground-based Task Team (GB-TT) of the WMO Global Climate Observing System (GCOS) Reference Upper Air Network (GRUAN).

Dr. Domenico Cimini teaches *Radar and Remote Sensing* for the Telecommunication Engineering Master degree and *Atmospheric Sounding* for the Atmospheric Science and Technology Master degree both at University of L'Aquila (Italy). He is also a board member of CETEMPS, where he leads the Passive Remote Sensing research line.

Dr. Cimini is life member of the *European Geophysical Union* (EGU). He is Editorial Board Member of the *Bulletin of Atmospheric Science and Technology* (since 2019) and serves as Associate Editor for *Atmospheric Measurement Techniques* (since 2013) and *Remote Sensing* (since 2018).

PROFESSIONAL EXPERIENCES

- 2021-present: **Research Manager**, Institute of Methodologies for the Environmental Monitoring (IMAA) of the National Research Council of Italy (CNR), Italy.
- 2019-2020: **Senior Researcher**, CNR-IMAA, Italy.
- 2010-2019: **Researcher**, CNR-IMAA, Italy.
- 2007-2010: **Research Assistant**, Center of Excellence for the Integration of Remote Sensing and Numerical Weather Prediction Models (CETEMPS), University of L'Aquila, Italy.
- 2005-2006, **Research Assistant**, CNR-IMAA, Italy
- 2004-2005, **Visiting Fellow**, Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, CO, USA.

TEACHING ABILITATION

- 2017-2026, **Full Professor**, SSD 04/A4 (GEOPHYSICS) and 02/C1 (ASTRONOMY, ASTROPHYSICS, EARTH and PLANETARY PHYSICS).

TEACHING & TUTORING

- 2021-present: **Professor** of Radar and Remote Sensing at University of L'Aquila, Italy (together with Prof. Mario Montopoli).
- 2019-present: **Professor** of Atmospheric Sounding at University of L'Aquila, Italy.
- 2016-present: **Evaluator and rapporteur** for three PhD commissions at Universitat Politècnica de Catalunya, Barcelona, Spain; University of Roma Tre, Italy; and Sapienza University of Rome, Italy.
- 2015-2019: **Professor** of Remote Sensing at University of L'Aquila, Italy.
- 2008-present: **Tutor** of five Master and one PhD students at University of L'Aquila, Italy.
- 2008-2010: **Lecturer** in Atmospheric Remote Sensing at University of L'Aquila, Italy.
- 2007 (Feb-Apr): **Adjunct Professor**, Center for Environmental Technology (CET), Department of Electrical and Computer Engineering, University of Colorado, CO, USA.

COMMITMENTS

- 2024-present: **Chair of Expert Team** on Upper-air Measurement (ET-UAM) of the World Meteorological Organization (WMO) Infrastructure Commission/Standing Committee on Measurements, Instrumentation and Traceability (INFCOM/SC-MINT).
- 2023-2024: **Vice-chair of ET-UAM** of WMO INFCOM/SC-MINT.
- 2020-2023: **Member of ET-UAM** of WMO INFCOM/SC-MINT.
- 2020-present: **Editorial board member** for *Bull. Atm. Sci. and Tech.* of Springer Nature.
- 2019-present: **Vice-chair** of EU COST Action CA18235 PROBE (Profiling the atmospheric boundary layer at European scale).
- 2019-present: **Chair** of MWR Task Team of EUMETNET E-PROFILE
- 2019-present: **Co-chair** of WMO GRUAN Ground-based observations Task Team
- 2018-present: **Associate Editor** for *Remote Sensing* of MDPI.
- 2013-present: **Associate Editor** for *Atmospheric Measurement Techniques* of the European Geosciences Union.
- 2013-2017: **Grant Holder** and **Working Group co-chair** EU COST Action ES1303 TOPROF (Towards operational ground-based profiling with ceilometers, doppler lidars and microwave radiometers for improving weather forecasts).
- 2012-present, **Evaluator** of project funding proposals for Swiss National Science Foundation (SNSF), German Science Foundation (DFG), Italian Ministry of Economic Development (MISE).
- 2007-present: **Head** of Passive Remote Sensing group at CETEMPS, University of L'Aquila, Italy.

PUBLICATIONS

- 103 papers in ISI peer-review international journals (24 as first author)
- Webofscience: <https://www.webofscience.com/wos/author/rid/M-8707-2013>
 - o H-index=27; 154 documents; 2370 total number of citations.
- Scopus: <http://www.scopus.com/authid/detail.url?authorId=7003995144&origin=resultslist>
 - o H-index=29; 159 documents; 2728 total number of citations.
- Google Scholar: <http://scholar.google.it/citations?user=RhP7yXsAAAAJ>
 - o H-index=36; 267 documents; 4078 total number of citations.

EDUCATION

- 2006-2009, Specialization in Medical Physics, University of L'Aquila, Italy.
- 1999-2002, PhD in Physics, University of L'Aquila, L'Aquila, Italy.
- 1991-1998, Laurea (cum laude) in Physics, University of L'Aquila, Italy.

SCIENTIFIC INTEREST

- More than twenty-year experience with remote sensing techniques, radiative transfer, retrieval algorithm development, ground- and satellite-based passive microwave and infrared radiometry.

AWARDS

- 2019, *6th Hans Liebe Lecture*, U.S. National Committee (USNC) for the Union of Radio Scientists Internationale (URSI) at the National Radio Science Meeting, 9-12 January 2019, Boulder, CO, USA. <https://www.usnc-ursi-archive.org/liebe.html>
- 2008, *Fondazione Ugo Bordoni Award* in memory of Prof. Giovanni D'Auria for the Best Paper Concerning Atmospheric Topics at the 10th Specialist on Microwave Radiometry and Remote Sensing 2008, <http://microrad2008.cetem.org/paperPrize.asp.html>.
- 2004, *Visiting Fellowship*, Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, CO, USA

SELECTED FUNDED PROJECTS

- 2024-2027: Scientific responsible and Spoke leader of Space It Up!, funded by Italian Space Agency (ASI)
- 2022-2024: Task Leader of VICIRS, funded by EUMETSAT
- 2021-2022: Principal Investigator of REFDATE4ESAMWR, funded by European Space Agency (ESA)
- 2020-2022: Partner representative and Task Leader of Millimeter-wave study, funded by EUMETSAT
- 2020-2021: Partner representative and Task Leader of RAP, funded by Carbon Trust
- 2019-2021: Principal Investigator of ComboCloud, funded by EUMETSAT
- 2019-2019: Principal Investigator of APPLES, funded by EUMETSAT
- 2018-2021: Partner representative and Task Leader of WRad, funded by ESA

- 2015-2017: Task Leader of EU Horizon 2020 Project GAIA-CLIM
- 2008-2009: Task Leader of METAWAVE funded by ESA
- 2008-2008: Task Leader of FLORAD funded by ASI

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE

Il Sottoscritto, ai sensi degli artt. 46 e 47 del D.P.R. 445/00, consapevole della responsabilità penale prevista, attesta il possesso di tutti i titoli sopra riportati.

24 Marzo 2025

Domenico Cimini

A handwritten signature in blue ink, appearing to read 'Domenico Cimini', written in a cursive style.