

Luca Di Liberto

Personal Data

Studies

2008: PhD in Remote Sensing, Università di Roma “La Sapienza”

2004: Laurea in Fisica, Università di Roma “La Sapienza”

Work experiences

2018 – current (PERMANENT POSITION): Researcher at Institute of Atmospheric Sciences and Climate (CNR-ISAC)

2013 – 2018: Researcher at Institute of Atmospheric Sciences and Climate (CNR-ISAC)

2008 – 2012: Post Doc position at Institute of Atmospheric Sciences and Climate (CNR- ISAC)

Scientific Activities

Since the degree in Physics his main focus has been to develop Lidar systems (groundbased, airborne) for the characterization of aerosol and clouds in the middle and low atmosphere.

During his post doc he integrated his skills in remote sensing observations of aerosol and clouds with in situ measurements of aerosol and gases. In this context, he coordinated the activities to implement a mobile laboratory capable of performing in situ aerosol and gas measurements in remote sites.

His passion for the polar regions leads him to carry out numerous polar measurement campaigns for the management of the instrumentation continuously engaged in the study of the aerosol and cloud physics. His main skills concern the optical characterization of aerosol and clouds in terms of scattering and absorption.

Main National and International Projects

He has participated in more than 20 research projects funded at national (MIUR-PRIN, MIUR-PNRA, CNR-PRA, MIUR-PON, PNRR) and international level (EU-FP6, EU-FP7, EU-H2020, U.S.- NSF, UE-H2020).

Current Infrastructures and Instruments responsibility

Coordinator of the Technological Department of the CNR- ISAC

PI of the AERosol mObile LABoratory (AEROLAB), mobile Infrastructure PER_ACTRIS_IT

Scientific Coordinator of the CNR Isac Rita Atria Observatory at Capo Granitola, Sicily

Co-PI of the Stratospheric Lidar at DC, Concordia Station Antarctica

PI of the micro lidar at Ny Alesund Station, Spitzbergen, Svalbard

Main Fields activities

During his research activity he is involved in several national and international measurement campaigns.

He was also involved in several scientific expedition in Antarctica at the American base of Mc Murdo and at the Italian/French Station (Concordia – Station) and in several campaigns in the Arctic (Thule Air Base - Greenland, Ny Alesund – Svalbard).

He was also involved in the scientific campaigns conducted with the stratospheric M55-Geophysica aircraft during the international programmes carried out between 2005 and 2017.

Teachings and Theses

2006 – 2007 Laboratorio di Fisica Terrestre (30h), Master Degree in Physics at Rome Sapienza University

2006 – 2007 Laboratorio di Fisica dell’Ambiente (30h), Bachelor Degree in Physics at Rome Sapienza University

2005 – 2006 Laboratorio di Fisica Terrestre (30h), Master Degree in Physics at Rome Sapienza University

2005 -2006 Laboratorio di Fisica dell’Ambiente (30h), Bachelor Degree in Physics at Rome Sapienza University

2023-2024 Laboratorio di Fisica Terrestre e dell’Ambiente, Bachelor Degree in Physics at Rome 3 University

Supervisor of some degree theses in Atmospheric Physics at University of Rome “Tor Vergata” and at University of Rome 3

Reviewer of some PhD thesis in Physics at the University of Bari “Aldo Moro”, University of Milan and University of Napoli “Federico II”

Publications

Author of more than 45 papers in peer-reviewed literature and more than 100 conference communications

H-index: 19 (Scopus), 18 (ISI Web of Science)

Web of Science ResearcherID: AAY-4560-2020

Scopus Author ID: 24329085500

ORCID: 0000-0001-7274-1279

Reviewer for several international journals

Awards

2011 – *Antarctica Service Medal of the USA in recognition of valuable contributions to exploration and scientific achievement under the U. S. Antarctic Program.* Given by: USA National Science Foundation