

Name: Ugo Cortesi
Position: Research Scientist
Title: Dr.
Gender: Male

Education and training

1993: Laurea in Physics (four years undergraduate degree) at University of Florence
1996: Specialization in Optics (two years graduate degree) at Istituto Nazionale di Ottica in Florence

Work Experience

1993 – 1996: Research fellow at IROE-CNR (Istituto di Ricerca sulle Onde Elettromagnetiche – Consiglio Nazionale delle Ricerche)
1996 – 2001; Temporary Researcher at IROE-CNR
2003 - 2004: Visiting scholar at Harvard SAO-CFA (group of prof. K. Chance)
2001 to present: Researcher (permanent position) at IFAC-CNR (Istituto di Fisica Applicata “Nello Carrara”)

Competences and Expertise

Cortesi has more than 20 years of experience in Earth Observation, working in the field of atmospheric remote-sensing with a focus on a variety of topics that allowed him to consolidate mutually supporting competences: from design and development of airborne and space-borne instruments; to ground and flight testing and scientific deployment of FT spectrometers; to the organisation and participation in field campaigns with stratospheric platforms; to validation of satellite measurements; to atmospheric radiative transfer modelling for sensitivity and feasibility studies and definition of observation requirements (e.g., CAMELOT project), for the retrieval processing of balloon, aircraft and satellite remote-sensing data; to exploitation of data synergy between simultaneous and independent measurements of the same atmospheric target. He has been responsible for the scientific coordination and management of the overall activity or of individual work-packages of a series of national and international research projects supported by the EU (e.g., SAFIREA, 1993-1994; SAFIRE-A for APE. 1996-1998), by ESA (MASTER, 1995; MARSCHALS, 1998-1999; CAMELOT, 2007-2009; PREMIER Analysis of campaign data, 2010, 2012; ANISAP, 2011-2012; KLIMA-IASI, 2008-2013), by ASI and by PNRA (Italian Programme for Antarctic Research) that since the early nineties co-funded the activities with the M-55 stratospheric aircraft (APE-POLECAT, 1996-1997; APE-GAIA 1998-1999; APE-ENVISAT, 2000-2003; APE-INFRA, 2002-2005) and by Regione Toscana (ICT-ONE, 2006-2008; CTOTUS, 2010-2012; MOMA, 2012-2014, DIASI, 2016-2018; SWAMM, 2016-2018).

Since 2013, he is a member of the ESA Sentinel-4/Sentinel-5 Mission Advisory Group (MAG). Since 2013, he is member of the Working Group “Space” of the Department of Earth Science and Technologies for the Environment of CNR. Since 2015, he is member of the Scientific Advisory Group of the Italian Space Agency for Earth Observation activities in ESA and since

The list of publications of Ugo Cortesi includes 35 papers in peer-reviewed journals and more than 100 articles or extended abstracts in conference proceedings.