

# CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

## INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Name, Surname	Angelo Pietro Viola
Address	Via Sant.Andrea 5
House number, street name, postcode, city, country	00046 Grottaferrata Italia
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E-mail	<b>a.viola@isac.cnr.it</b>
Website	<b>www.isac.cnr.it</b>
Nationality	<b>Italiana</b>
Place and Date of birth	<b>Comines (F) 22.01.1955</b>

## WORK EXPERIENCE

If CNR employee indicate:	<b>FRESHER 22091</b> <b>TITLE SENIOR SCIENTIST</b> <b>LEVEL II</b>
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Dates (from – to)	2009 - 2015
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Name and address of employer	Italian National Council of Research (CNR) Institute of Atmospheric Sciences and Climate (ISAC) Via Fosso del Cavaliere 100. I-00133 Roma, Italia
Type of business or sector	Sciences of the Earth and Environment
Occupation or position held	Permanent position
Main activities and responsibilities	<p>In the period considered he continued to study the thermodynamic processes in the atmospheric boundary layer in urban areas (low Tiber Valley) and Antarctica (Dome C) by using acoustic remote sensing techniques (SODAR). He contributed to the implementation of the SODAR to increase the vertical resolution to observe the fine turbulent structure of the atmospheric surface layer and measure wind profiles from 5 to 400 m. The system was used for measurement campaigns in the Experimental Field of ISAC, and in Antarctica. He participated to two experimental campaigns at the Concordia station on the Antarctic Plateau to test the new Surface Layer Minisodar and study the characteristics of the boundary layer in conditions of long lived stability.</p> <p>Until 2010 and he has coordinated for the work package "Climate Change" as part of the the Integrated and Inter-Operational Environmental Data Management (GIIDA) project supported by the Department of Sciences of Earth System and Technologies for the</p>

#### Environment ( DTA)

Until 2012 he was responsible, of the scientific infrastructure in open field of ISAC in Research Area of Tor Vergata - Rome managing in particular for the acoustic remote sensing measurements.

Since 2009 he is the scientific coordinator of the Amundsen - Nobile Climate Change Tower installed in Ny Alesund (Svalbard) by CNR to measure the physical parameters that characterize climate change and he participated to several campaigns and project in the Arctic. The cited scientific infrastructure ( CCT ) that represents the key element of the Italian research activities is included in the ESFRI initiatives in particular in the EU Project SIOS (Svalbard Integrated Observation System).

Until 2014 he participated to SIOS project contributing to Working Group 2 (Atmosphere) for the Gap Analysis inventory. He was also responsible of task 4.2 in the Work Package 4 concerning the User's Access Facilities, and of the task 6.3 in the Work Package 6 concerning the Data Facilities and the use of Arctic Data Centers.

In 2013-2015 he participated in the bilateral project of Great Relevance between Italy and Korea for the "Study of Climate Change and feedback processes" .

Since 2014:

he is deputy coordinator of the Working Group of the Arctic established within the Department of Sciences of Earth System and Technologies for the Environment, for the management of the Italian research activities in the Arctic and the coordination of the infrastructures that account to the CNR Arctic station "Dirigibile Italia" in Ny Alesund;

he coordinates the activities of the digital infrastructure IADC (Italian Arctic Data Center) for the management of data acquired at CCT, and the scientific facilities by Italian research groups in the Arctic. The IADC system integrated and inter-operative also manages the information of the projects and of research activities in the Arctic.

In 2014 he was named as national representative in BFGO for conducting the Collaborative Research Action "Arctic Observing and Research for Sustainability" of the Belmont Forum.

In 2015 :

he became responsible for the Project ARCA of tasks concerning of atmospheric dynamics and processes turbulent and data management in the IADC;

he became responsible, based on the agreement signed with KOPRI, of the management of instrumentation and measurements of the eddy covariance and gas analyzers sensors owned by KOPRI and installed on the CCT in 2012;

he has been named as Italian national representative in AMAP ( Arctic Monitoring Assessment Program) of the Arctic Council

## ISTRUZIONE E FORMAZIONE / EDUCATION AND TRAINING

Dates (from – to) AA 1981-82

### ***Name and type of organization providing education and training***

Principal subjects occupational  
skills covered

Title of qualification awarded Università degli Studi "La Sapienza", Roma. Facoltà di Scienze MM. FF.NN.,

Level in National classification Physical oceanography, satellite remote sensing, earth sciences, meteorology, physic of the atmosphere,

## RESEARCH ACTIVITIES

Research sectors Oceanography, Physics of the Atmosphere, Climate Change, Data management

Recent Scientific Activities.

Study of turbulence in different condition of atmospheric stability at Ny Alesund - Svalbard  
Thermodynamic characterization of the atmospheric boundary layer in Arctic and Antarctic  
Study of the variability of the components of the arctic climate system in the area of Kingsbay  
Interaction between physical processes at different time-space scales.  
Scientific contribution to construction of the database for managing the arctic data.