

Federico Fierli**Born in Rome, Italy on 19/07/1971****Italian citizen****2 daughters (8 and 10 y.o.)****webpage: <http://www.isac.cnr.it/utls/?q=federico>****f.fierli@isac.cnr.it****5 important recent duties**

Head of a small research group (4 people)

Contract Professor of Climatology, Dept. Physics, University of Rome "Tor Vergata"

7-months visiting Scientist at NCAR, USA

Chairman, COST-Action Water Vapour in the climate system WAVACS

Associate Editor for Atmospheric Chemistry and Physics

1./ Research and University experience**Recent Work profile**

- Staff researcher (Chargé de Recherche), Institute for Atmospheric Sciences and Climate, National Research Council, Italy (2002-now)

- Contract Professor, Dept. of Physics, University of Rome "Tor Vergata" (2003-now)

Visiting Scientist, NCAR, Atmospheric Chemistry Department, US (08/2011-12/2011 and 08/2010)

Before 2002

- Research fellowship of European Space Agency (competitive selection) "Data assimilation of ENVISAT chemical observation", Service d'Aéronomie du CNRS, Paris and ACRI-ST, Sophia Antipolis (2000-2002)

- Boursier CNRS: "Leewave induced Polar Stratospheric Clouds UE project", Service d'Aéronomie du CNRS, Paris (1996-1999)

University teaching and duties

Course of Climatology (overall 80 hours per year) University Rome "Tor Vergata", Faculty of Physics (syllabus in <http://www.isac.cnr.it/~utls/?q=node/243>) (2003-now)

Member: Faculty council, University of Rome "Tor Vergata", Faculty of Sciences (2003-Now)

Member: PhD council, University of Ferrara, Dept. of Physics (2008-Now)

Member: PhD selection committee, University of Ferrara

"Examinateur" PhD committee for University of Paris and University of Reims

Member: Committee for the development of science and technology, Ministry of Education and Research (<http://hubmiur.pubblica.istruzione.it/web/ministero/scienza-e-tecnologia/>)

Supervisor (Directeur / co-Directeur) for 5 PhD students

Supervisor for 5 "Laurea Breve" and "Laurea Specialistica" thesis work (stage licence and maitrise)

Studies

1996-1999 PhD Université Pierre et Marie Curie, Paris VI "Caractérisation des Nuages Stratosphériques Polaires en Scandinavie. Etude qualitative de leur impact sur l'air active aux moyennes latitudes"

1995 Equivalence with D.E.A., diplôme études approfondis, Université Pierre et Marie Curie, Paris VI

1995 Grant holder for research stage, Università di Roma "La Sapienza" (carried out at CNRS, Paris)

1995 Grant holder for Erasmus stage, Università di Roma "La Sapienza" (carried out at CNRS, Paris)

1995 "Laurea in Fisica", Università di Roma "La Sapienza", Final marks 110/110 "cum laude" (top 10%)

1989 "Maturità Scientifica", Final marks 60/60 (top 5 %)

2./ Management Skills**Past project PIship**

- Chairman, COST-Action "Water Vapour in the climate system" WAVACS 2007-Now (Managed 320 kE)

- Member of the executive committee, AMMA-EU project 2005-2009

- CNR PI ASI QUILSAT- "Data assimilation for air quality forecasting" 2006-2009 (130 kE)

- CNR PI Programma Nazionale Ricerche Antartiche, “Variability of the Antarctic Stratosphere”, CLIVA 2006-2009 (120 kE)
- CNR PI UE project AMMA “Analyse Multidisciplinaire de la Mousson Africaine”, 2005-2010 (410 kE)
- Coordinator of the “Water Cycle” workpackage (12 involved partners) of the AMMA-EU project

Current projects

- Programma Nazionale di Ricerca, “Hydrology in the Po-Valley”, 2013-2015 (20 kE)
- PAPRICA “Atmosfera e criosfera in Himalaya”, French-Italian co-funded project, 2010-2013 (20 kE)
- I-AMICA, Progetto Operativo Nazionale, “Transport of pollutants in the mediterranean basin”, 2012-2014 (80 kE)
- Regional Environmental Agency, “Pollution in the Po-Valley region”, 2011-2015 (40 kE)

Past projects CO-Iship

- Participation to 8 EU projects in the frame of stratospheric research as CO-I
- Participation to 5 International measurement campaigns (AMMA-EU Africa, TROCCINOX Brazil, HIBISCUS Brazil, LEEWAVE I&II Scandinavia)
- Participation to 6 national projects as CO-I

Research group composition

- 2004-2005 Dr. Paola D’Aulerio, Post-doc, “Stratosphere Troposphere exchanges”
- 2006-2007 Dr. Matteo Zampieri, Post-doc, “Deep Convection in West Africa”
- 2007-2010 Dr. Elisa Palazzi, Post-doc, “Transport and climate in the UTLS region”
- 2006-2010 Dr. Emiliano Orlandi, PhD, Università di Ferrara, “Deep convection and transport in West Africa” (Directeur encadrant)
- 2007-2010 Dott. Palmira Messina, PhD, Università di Ferrara, “Data assimilation in regional models” (Directeur encadrant)
- 2007-2010 Dott. Olga Cavalieri, PhD, Università di Potenza, “Aerosol transport in in West Africa” (Co-directeur)
- 2010-2011 Dott. Stefano Chiarugi, PhD, Università di Ferrara, “PBL composition in the Po Valley” (Directeur encadrant)
- 2010-2011 Dott. Samuele Fin, PhD, Università di Ferrara, “Circulation in the Himalayan area” (Directeur encadrant)
- 2012-now Dott.ssa Silvia Bucci, PhD Università di Ferrara, “Aerosol and pollutant transport in the Mediterranean area” (Directeur encadrant)

Conference and workshop organization

- Main organizer, WAVACS international winter school, water vapour in the climate system, 2011
- Local host, SPARC-WMO IV General assembly, 2008
- Co-organizer, Cargese international school, WAVACS, water vapour in the climate system, 2009
- Co-organizer, SCOUT-O3 workshop on tropical UTLS, University of Manchester, 2008
- Co-organizer, Workshop on AMMA - SCOUT-O3 UTLS Balloon/Aircraft Campaign, 2007

Other duties

- Member of the Management Committee of the COST-723 action 2006-2010
- Committee for science communication, CNR Bologna 2010-2012
- Elected Member of “Conseil du laboratoire”, Service d’Aeronomie du CNRS 1996-1998

3./ Editorial activity, communication and publications

- **Associate Editor** Atmospheric Chemistry and Physics (IF 5.2) 2012-2016 (6-10 handled yearly)
- **Guest Editor** Atmospheric Chemistry and Physics (IF 5.2), WAVACS special issue 2011-2013
- Editorial Board The Scientific World Journal
- **Referee** for Journal Geophysical Research, Geophysical Research Letters, Atmospheric Chemistry and Physics, Climate Dynamics, Annales Geophysicae (2-6 reviewed yearly)
- **Reviewer for Proposal** Agence Nationale de la Recherche (France), MIUR (Italy)

Chairman at 4 international workshops

4 invited talks in international conferences

> **60 contributions** in international conferences as oral / poster

Science popularization: coordination and participation to 2 projects, > 20 public conferences, coordination and animation of science labs on climate in 7 large public events

Publications

See publication list

39 publications in peer-reviewed int. Journals (3 submitted / in review)

Main author (or equivalent contribution) of 14 papers in journal with a relevant IF (2.5)

(#S1 and #1,2,6,9,15,18,23,24,27,28,29,30,34)

Full list of publications also available at:

http://scholar.google.com/citations?sortby=pubdate&hl=en&user=XY2me30AAAAJ&view_op=list_works

Languages

Italian, French (fluent), English (fluent)

Scientific Programming

I mainly work in a Linux environment (with a touch of MacOSx). I develop code and analyse large databases in Fortran90 and IDL. I use homemade codes based on various atmospheric models (WRF, FLEXPART, FLEXTRA).

Roma, le 26 Mars 2013