

CURRICULUM VITAE

FILIPPO GIORGI

August 2024

ADDRESS

Abdus Salam International Centre for Theoretical Physics (ICTP),

Strada Costiera 11, 34151 Trieste, Italy.

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DATE AND PLACE OF BIRTH

9 February 1959, Sulmona, Italy

RESEARCH EXPERIENCE AND INTERESTS

Regional and global climate modeling and analysis; anthropogenic climate change and natural climate variability; aerosol modeling and chemistry-climate interactions; land surface modeling and biosphere-atmosphere interactions; hydroclimatic regimes and extreme events; impacts of climate on society and ecosystems.

MAIN SCIENTIFIC ACHIEVEMENTS

Pioneered the field of regional climate modeling (late 1980s).

Lead the development and distribution of the first regional climate modeling system (RegCM) for community use (late 1980s to present). The RegCM (now at version RegCM5) is one of the most used in the world, especially by scientists from developing countries.

Developed the microphysics of one of the first aerosol models interactively coupled to global and regional climate models, with application to Nuclear Winter simulations (late 1980s) and regional effects of aerosols (2000s).

Completed the first regional climate change and regional paleoclimate simulations (1990s).

Introduced novel concepts in climate change analysis, such as: elevation dependency of the climate change signal (1997); model weighting in ensemble climate projection (2002); regional climate change hot-spots (2006); time of emergence (TOE) of the

climate change signal (2008); transition to new climates (TNC) (2022).

Lead the development of the REGional Climate research NETwork (RegCNET), a network of over 800 of scientists interested in regional climate research, mostly from developing countries (mid 2000s to present).

Contributed to the first (WGI Contributing Author), second (WGI Lead Author), third (WGI Coordinating Lead Author), fourth (Vice Chair of WGI Bureau and WGI Review Editor), and fifth (WGII Lead Author) report of the Intergovernmental Panel on Climate Change (IPCC) (early 1990s to early 2010s).

Co-recipient of the 2007 Nobel Peace Prize as vice-chair of the IPCC WGI Bureau.

Lead the design and implementation of the COordinated Regional Climate Downscaling EXperiment (CORDEX) (early 2010s to present).

Top rated Italian scientist in the field of Natural and Environmental Sciences by the VIA-academy (2015 to present).

Recipient of the 2018 Alexander von Humboldt Medal of the European Geosciences Union.

Ranked No. 11 (out of 54940) most influential scientist in the field of Meteorology and Atmospheric Sciences in a study by Stanford University based on multiple bibliometrics indicators (Ioannidis J.P.A., et al., 2020, Updated science-wide author databases of standardized citation indicators; Plos Biology, doi: 10.1371/journal.pbio.3000918) (2020)

(https://www.researchgate.net/publication/345921476_World%27s_Top_2_Scientists_by_Stanford_University).

Co-lead the design and completion of the CORDEX-CORE EXP-I initiative, consisting of an unprecedented ensemble of multiple high resolution RCM projections over nine continental scale domains (2018-2021).

Included in the 2001, 2022 and 2023 ISI-WoS Highly Cited Scientist list for the Geosciences.

Elected as Corresponding Member of the Accademia Nazionale dei Lincei (2024) and the Istituto Veneto di Scienze, Lettere e Arti (2022)

EDUCATION

B.S./M.S. 1982, Italian Laurea in Physics (emphasis Atmospheric Sciences), Department of Physics, University of L'Aquila, L'Aquila, Italy. Supervisors: G. Visconti and R. Benzi. Thesis Title: Development of a Two-Layer General Circulation Model for Studies of Climatic Sensitivity. Grade: Summa cum Laude.

Ph.D. 1986, School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, Georgia. Supervisors: W. L. Chameides and R. E. Dickinson. Thesis Title:

Development of an Atmospheric Aerosol Model for Studies of Global Budgets and Effects of Airborne Particulate Material. GPA: 4.0 (100%).

PROFESSIONAL EXPERIENCE

Research Fellow. IBM Scientific Center, Rome, Italy, February 1982–September 1982.

Research Assistant. School of Geophysical Sciences, Georgia Institute of Technology, January 1983– August 1984.

Research Assistant. National Center for Atmospheric Research, Boulder, CO. Graduate Research Assistantship in the Advanced Study Program, August 1984–June 1986.

Post-doctoral Fellow. National Center for Atmospheric Research, Boulder, CO. Postdoctoral Fellowship in the Advanced Study Program, June 1986–October 1987.

Scientist I. Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, October 1987–June 1991.

Scientist II. Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, July 1991–July 1994.

Deputy Section Head. Interdisciplinary Climate Systems Section, Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, September 1992– September 1995.

Visiting Scientist. Institute for Remote Sensing Applications, Joint Research Centre, Ispra Establishment, Ispra, Italy, January 1993–December 1993.

Scientist III. Climate and Global Dynamics Division, National Center for Atmospheric Research, Boulder, CO, July 1994–April 1998.

Group Head. Physics of Weather and Climate Group, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, May 1998–August 2005.

Section Head. Earth System Physics Section (ESP), Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, September 2005–February 2024.

Scientist Emeritus. Earth System Physics Section (ESP), Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, March 2024–Present.

OTHER PROFESSIONAL ACTIVITIES

Reviewer of journal articles (approximately 10-15 per year) for a number of international journals.

Leader of a research effort to develop and maintain a regional climate model (RegCM) for community use (1989 - present).

Co-leader of RegCNET, a regional climate research network currently involving over 800 participants (2003- present).

Participation to the Assessment Reports of the Intergovernmental Panel on Climate Change (IPCC): Contributing Author (WGI) for the First Assessment Report (1992); Lead Author (WGI) for the Second Assessment Report (1992-1996); Convening Lead Author (WGI) for the Third Assessment Report (1997-2001); Vice Chair of the Working Group I Bureau and Review Editor (WGI) for the Assessment Report 4 (2002-2008); Lead Author (WGII) for the Assessment Report 5 (2008-2014).

Convener of the session: "Regional Climate Modeling, Including CORDEX", at the EGU annual General Assembly, 2011-present.

Member of the network of Mediterranean Experts on Climate and Environmental Change (MedECC) and lead author of the First Mediterranean Assessment Report (MAR1) (2018 - 2020).

Editor, Climate Research (September 2008 - December 2018).

Editor, Journal of Geophysical Research - Atmospheres (January 2019 - Present).

Member of the European Research Council (ERC) Evaluation Panel for Starting Grants in the area of Geophysical Sciences (2021).

Referee for European Research Council (ERC) starting and advanced grants.

Member of the European Research Council (ERC) Evaluation Panel for Advanced Grants in the area of Geophysical Sciences (2023, 2025).

Author of numerous public talks, lectures for primary and secondary schools, TV and Radio interviews on climate change and other environmental issues.

AWARDS AND RECOGNITIONS

1982: IBM Research Fellowship, Rome, Italy

1992: Nominated for the NCAR Outstanding Publication Award

2001: Included in the ISI-WoS Highly Cited Researcher list for the Geosciences (top 0.1% of the most highly cited scientists in the Geosciences during the previous 20 years)

2002: Elected vice chair of the IPCC WGI Bureau^{[1][SEP]}

2007: Co-recipient of the Nobel Peace Prize awarded to the IPCC as Vice-chair of the IPCC Working Group I Bureau.

2008: Recipient of the Dante Alighieri Prize from the Dante Alighieri Society for Italian Culture in the World.

2008: Recipient of the Gold Medal for Civic Merits from the Provincia dell'Aquila, Italy.

2015-present: Top rated Italian scientist in the field of Natural and Environmental Sciences by the VIA-academy.

2018: Recipient of the Alexander von Humboldt Medal of the European Geosciences Union.

2018: Awarded the title of "Ambasciatore d'Abruzzo nel Mondo" (Ambassador of Abruzzo in the World) for scientific and academic merits.

2019: Recipient of the prize "Hercynus Orca" from the of Fondazione di Comunita' Messina.

2020: Recipient of the Motumundi Prize for contributions in improving understanding of Climate Change and its effects on society.

2020: Ranked No. 11 (out of 54940) most influential scientist in the field of Meteorology and Atmospheric Sciences in a study by Stanford University based on multiple bibliometric indicators (Ioannidis J.P.A., et al., 2020, Updated science-wide author databases of standardized citation indicators; Plos Biology, doi: 10.1371/journal.pbio.3000918; https://www.researchgate.net/publication/345921476_World%27s_Top_2_Scientists_by_Stanford_University.)

2022: Elected Resident Corresponding Member of the Istituto Veneto per le Scienze, Lettere e Arti.

2022: Included in the ISI-WoS Highly Cited researcher list for the Cross-field category.

2023: Included in the ISI-WoS Highly Cited researcher list for the Geosciences category.

2023: Recipient of the 2023 Premio Giorgio Cavallo.

2023: Recipient of the 2023 Premio Nazionale Citta' di Pianella per le Lettere, Arte, e Scienze, Rosone D'Oro.

2024: Elected Corresponding Member of the Accademia Nazionale dei Lincei.

SCIENTIFIC COMMITTEES

Co-chair of the START/TEA (Temperate East Asia) Steering Committee (1995 - 2000).

Member of the Project for Intercomparison of Regional Climate Simulations (PIRCS) Advisory Committee (1996 - 2000).

Member of the IPCC Task Group on Climate Impact Assessment (TGCIA) (1996 - 2003).

Member of the Scientific Steering Committee of the CAS-TWAS-WMO Forum for Physico-Mathematical Problems Related to Climate Modeling and Prediction (2001 - 2010).

Member of the IPCC Bureau as Vice Chair of Working Group I (The Physical Science Basis of Climate Change) for the Fourth IPCC Assessment Report (2002 - 2008).

Member of the JSC/CLIVAR Working Group on Climate Modeling (WGCM) (2005 - 2010).

Co-chair of the WCRP Task Force of Regional Climate Downscaling (TFRCD) (2008 - 2012).

Member of the Scientific Council of the CINECA Supercomputing Center (2010-2012).

Member of the Scientific Advisory Board of the Catalan Institute of Climate Sciences (IC3) (2008 - 2014).

Member of the WMO/ICSU/IOC Joint Scientific Committee (JSC) for the World Climate Research Program (WCRP) (2009-2014).

Chair of the ANVUR (Agenzia Nazionale per la Valutazione del sistema Universitario e della Ricerca) Evaluation Panel for the Geosciences sector (2011-2013).

Co-Chair of the Scientific Advisory Team (SAT) of the Coordinated Regional Climate Downscaling EXperiment (CORDEX) (2012 - 2018).

Member of the Steering Committee of the HPC-TRES program (2015 - 2019).<sup>[1]
[SEP]</sup>

Member of the Scientific Advisory Committee of the Fondazione Edmund Mach (FEM) (2016 - 2021).

Member of the International Scientific Advisory Panel (ISAP) of the Center for Climate Research Singapore (CCRS) (2021-present).

SCIENTIFIC SUPERVISORY RESPONSIBILITIES

Stephen Nieman, NCAR Software Engineer, 1990-1991.<sup>[1]
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Yong-Qiang Liu, NCAR Visiting Scientist (Chinese Academy of Meteorological Sciences, P.R.C.), 1992-1993.

Gerardo De Canio, NCAR Visiting Scientist (ENEA, Italy), 1992-1993.

Hiromaru Hirakuchi, NCAR Visiting Scientist (CRIEPI, Japan), 1992-1994.

Dolores Olmeda, NCAR Fullbright Visiting Fellow (National Institute of Meteorology, Spain), July 1996- March 1997.

Anji Seth, Ph.D. Candidate, University of Michigan, 1992-1995; NCAR Postdoctoral Fellow, 1995-1997.

Gary Bates, NCAR Associate Scientist, 1994-1997.^[1]_{SEP}

Maria Rosaria Marinucci, NCAR Visiting Scientist (U. of L'Aquila, Italy), 1989-1997.^[1]_{SEP}

Eric Small, Ph. D. Candidate, U. California at Santa Cruz, 1996-1998.

Keiichi Nishizawa, NCAR Visiting Scientist (CRIEPI, Japan), 1996-1998.

Yan Huang, Ph.D. Candidate, Chinese Academy of Sciences, 1997-1998.

Jian-Hua Qian, NCAR Postdoctoral Fellow, 1996-1998.^[1]_{SEP}

Christine Shields, NCAR Software Engineer, 1991-1998.

Yun Qian, ICTP Postdoctoral Fellow, 1999 - 2000.

Allison Steiner, ICTP Visiting Scientist, April-September 2001.

Raquel Francisco, ICTP Visiting Scientist, 1999-2000, September 2001-May 2002.

Pu Ye, ICTP Visiting Scientist, March-November 2003.

Faisal Saeed, ICTP Visiting Scientist, February-July 2004.

Fabien Solmon, ICTP Postdoctoral Fellow, 2002-2005.

Nellie Elguindi, ICTP Postdoctoral Fellow, 2003-2005.

Xuejie Gao, ICTP Visiting Scientist, April-September 2004; March-December 2005.

Frederick Meleux, ICTP Visiting Scientist, November 2004-April 2005.

Mihaela Caian, ICTP Visiting Scientist, February-December 2005.

Jeremy Pal, ICTP Tenure Track Scientist, 2001-2006.

A. Konare, ICTP Visiting Scientist, March-October 2007.

Yan Bao, ICTP Visiting Scientist, September 2007-September 2008.

Ashraf Zakey, ICTP Visiting Scientist, April-September 2002, 2006-2009.

Sara Rauscher, ICTP Postdoctoral Fellow, 2005-2009.

Eun-Soon Im, Ph.D. Candidate, Pusan National University, Korea, 2002-2006; ICTP Post-doctoral fellow, 2007-2010.

Xunqiang Bi, ICTP Assistant Scientist, 1998-2011.^[L]_{SEP}]

Mahmadou Bamba Sylla, ICTP Post-doctoral Fellow, 2008-2011.^[L]_{SEP}]

Andrea Pozzer, ICTP Post-doctoral Fellow, September 2011 - August 2012.^[L]_{SEP}]

Ufuk Utku Turungoclu, ICTP Post-doctoral Fellow, 2011-2012.^[L]_{SEP}]

Tadesse Terefe, ICTP PhD STEP Student (U. Addis Abeba), 2009-2012.

Nellie Elguindi, ICTP Visiting Scientist, 2010-2012.^[L]_{SEP}]

Gulilat Tefera Diro, ICTP Post-doctoral Fellow, 2010-2013.^[L]_{SEP}]

Modatir Zaroug, PhD Student (U. Khartoum), 2010-2013.^[L]_{SEP}]

Ismaila Diallo, PhD Student (U. Dakar), 2012-2014.^[L]_{SEP}]

Marta Pereira Llopart, ICTP Post-doctoral Fellow, 2014-2015.^[L]_{SEP}]

Laura Mariotti, ICTP Post-doctoral fellow, 2010-2016.

Csaba Z. Torma, ICTP Post-doctoral Fellow, 2012-2016.^[L]_{SEP}]

Ramon Fuentes-Franco, ICTP Post-doctoral Fellow, 2013-2016.^[L]_{SEP}]

Giovanni Tumolo, PhD Student (U. Trieste); ICTP Postdoctoral fellow / Visiting Scientist, 2010 - 2018.

Taleena Sines, ICTP Postdoctoral fellow, 2017 - 2018.

Fabien Solmon, ICTP Research Scientist, 2010 - 2017.

Timea Kalmar, ICTP Erasmus Visitor, 2018; 2021.

Marco Stefanelli, MsC Student (U. Trieste), 2018 - 2019.

Michele Marro, MsC Student (U. Trieste), 2018 - 2019.

Costanza del Gobbo, PhD Student (U Trieste), 2017 - 2021.

Abraham Torres, ICTP Post-doctoral fellow, 2018 - 2021.

Sebastian Mueller, ICTP Post-doctoral fellow, 2018 - 2021

Sabina Amma-Omar, ICTP Post-doctoral fellow, 2018 - 2021

James Ciarlo, ICTP Post-doctoral fellow, 2017 - 2022

Rosa Luna Nino, PhD Student (CICESE), 2018-2022.

Sushant Das, ICTP Post-doctoral fellow, 2016 - 2022.

Lara Belleri, MsC Student (U. Brescia), 2021 - 2022

Fred Kucharski, ICTP Research Scientist, 2006 - 2024.

Abdekrim Aoudia, ICTP Research Scientist, 2006 - 2024.

Adrian Tompkins, ICTP Research Scientist, 2007 - 2024.

Erika Coppola, ICTP Research Scientist, 2010 - 2024.

Graziano Giuliani, ICTP Software Engineer, 2011 - 2024.

Riccardo Farneti, ICTP Research Scientist, 2012 - 2024.

Russell Glazer, ICTP Post-doctoral fellow, 2018 - 2024.

Francesca Raffaele, ICTP Assistant Scientist, 2015 - 2024

RESEARCH GRANTS

1. Co-Principal Investigator: Regional Climate Modeling of the Great Lakes Region. Environmental Protection Agency (EPA), 1990-1991.

2. Co-Investigator: Regional Climate Predictions of Possible Change for the Yucca Mountain Project. Department of Energy (DOE), 1990-1993.

3. Co-Principal Investigator: Generation of Regional Climate Change Scenarios for Europe, Eastern Asia and the United States. Modeling Evaluation Consortium for Climate Assessment (MECCA), funding from CRIEPI and ENEA, 1992-1994.

4. Co-Principal Investigator: Development of a Regional Climate Model for Europe. Climate of the 21st Century (C21C), European Union (EU), 1993-1995.

5. Co-Investigator: NCAR Project to Interface Modeling on Global and Regional Scales with Earth Observing System (EOS) Observations. National Aeronautics and Space Administration (NASA), 1990-1996.

6. Co-Principal Investigator: Development of Climate Change Scenarios for Impact Assessments in the Great Lakes Region. National Oceanic and Atmospheric Administration (NOAA), 1993-1995.

7. Co-Investigator: GENESIS Earth System Modeling Project. United States

Environmental Protection Agency (EPA), 1992-1997.

8. Co-Principal Investigator: A Modeling Study of the Regional Climate and Water Cycle of the Great Lakes Basin. National Oceanic and Atmospheric Administration (NOAA/GCIP), 1995-1997.

9. Co-Principal Investigator: Development of a Nested Regional Model for the Conterminous United States and Formation of High Resolution Climate Change Scenarios with an Application to Crop Climate Models. Great Plains Regional Center for Global Environmental Change, Department of Energy (DOE), 1993-1997.

10. Co-Principal Investigator: Prediction of the Seasonal Climate Anomalies over Eastern Africa. National Science Foundation (NSF), 1995-1998.

11. Co-Principal Investigator: Modeling Anthropogenic Desiccation of the Aral Sea: A Unique Test of the Predictive Capabilities of a Regional Earth System Model. National Science Foundation (NSF), 1996-1998.

12. Co-Principal investigator: Development of coupled climate, ecology, chemistry regional modeling activities for East Asia and study of environmental effects of anthropogenic activities over the region. Global Change Systems for Analysis, Research and Training (START) / Asia Pacific Network (APN), 1996-1998.

13. Co-Principal Investigator: A Study of seasonal Rainfall Predictability for Tropical South America Using a Nested Modeling System. National Oceanic and Atmospheric Administration (NOAA), 1998-2000.

14. Co-Investigator: The Yangtze Delta of China as an Evolving Metro-Agro-Plex (CHINA-MAP). National Aeronautics and Space Administration (NASA), 1996-2001.

15. Co-Investigator: Development of a regional seasonal forecasting system. Centro Elettrotecnico Sperimentale Italiano (CESI), 2000-2001, 10,000 Euros.

16. Co-Investigator: Prediction of Regional Scenarios and Uncertainties for Defining European Climate Change Risks and Effects (PRUDENCE). European Union (EU), 2001-2004.

17. Co-Investigator: COLUMBUS project, Italy-USA collaboration agreement on Climate Change Research. Italian Ministry of Environment, 2003-2005, 205,000 Euros.

18. Co-Investigator: ENSEMBLE-Based Predictions of Climate Changes and their Impacts (ENSEMBLES). European Union (EU), 2004-2009, 205,500 Euros.

19. Co-Investigator: Central and Eastern Europe Climate Change Impact and Vulnerability Assessment (CECILIA). European Union (EU), 2006-2009, 132,840 Euros.

20. Co-investigator. Development of regional climate change scenarios for the Mediterranean and studies of climate variability and predictability. Centro

EuroMediterraneo per i Cambiamenti Climatici (CMCC), 2008-2010, 200,000 Euros.

21. Co-Investigator: Assessing Climatic change and impacts on the Quantity and quality of Water (ACQWA). European Union (EU), 2008-2013, 200,000 Euros.

22. Co-Investigator: Megacities: Emissions, urban, regional and Global Atmospheric POLLution and climate effects, and Integrated tools for assessment and mitigation (MEGAPOLI). European Union (EU), 2008-2012, 107,000 Euros.

23. Co-investigator. Socioeconomic Consequences of Climate Change in Sub-equatorial Africa (SoCoCa), Norwegian Research Council, 2009-2011, 102,000 Euros.

24. Co-investigator. Climate Local Information in the Mediterranean Region: Responding to User Needs (CLIMRUN), European Union (EU), 2011-2014, 250,000 Euros.

25. Co-investigator. Climate Modeling of Caspian Sea Level, WRPMC, 2011-2012, 215,000 Euros.

26. Co-Investigator, Atopic Diseases in Changing Climate, Land Use and Air Quality (ATOPICA), European Union (EU), 2011-2015, 249,750 Euros.

27. Co-Investigator, NextData, Consiglio Nazionale della Ricerca (CNR), 2012-2015, 370,000 Euros.

28. Co-Investigator, Development of Flood Risk Maps for the Italian Territory, ALLIANZ-Italy, 2015-2018, 225,000 Euros.

29. Co-Investigator, Climate Information for Renewable Energy Application, ENEL, Italy, 2018-2019, 75,000 Euros.

30. Co-Investigator, Producing Regional CLimate Projections Leading to European Services (PRINCIPLES), European Union (EU), 2017-2021, 275,000 Euros.

31. Co-Investigator, European Climate Prediction System (EUCP), European Union (EU), 2018-2022, 500,000 Euros.

32. Co-Investigator, Climate Information for Renewable Energy Application, ENEL, Italy, 2020-2022, 225,000 Euros.

EDUCATIONAL ACTIVITIES

1995 Lecturer at the NATO/ASI school on The mathematics of models for climatology and the environment, ^[1]_{SEP}Tenerife, Spain, 11 - 21 January. ^[1]_{SEP}

1996 Co-organizer and lecturer at the Inter American Institute Workshop on Climate Modeling, NCAR, Boulder, CO, 26 February - 8 March. ^[1]_{SEP}

1998 Co-organizer and lecturer at the Abdus Salam ICTP Summer Colloquium on the Physics of Weather and Climate: The Effect of Topography on the Atmospheric Circulation, Trieste, Italy, 8 - 26 June.

1998 Co-organizer and lecturer at START/APN Workshop on Regional Climate Modeling, Beijing, China, 23 - 27 November. ^[1]_{SEP}

1999 Co-organizer and lecturer at the Abdus Salam ICTP Summer Colloquium on the Physics of Weather and Climate: The Physics of Climate Change: a Regional Perspective, Trieste, Italy, 7 - 25 June. ^[1]_{SEP}

2000 Co-organizer and lecturer at the Abdus Salam ICTP Summer Colloquium on the Physics of Weather and Climate: Chemistry-Climate Interactions, Trieste, Italy, 29 May - 14 June. ^[1]_{SEP}

2001 Lecturer at the Abdus Salam ICTP of a semester course on Geophysical Fluid Dynamics and Modeling. ^[1]_{SEP}

2001 Co-organizer and lecturer at the Southern Africa Workshop on Regional Climate Modeling, University of Cape Town, South Africa, 22 January - 2 February. ^[1]_{SEP}

2001 Co-organizer of the Abdus Salam ICTP Advanced Course on Climate Change in the Mediterranean Region - Part I: Physical Aspects, Trieste, Italy, 12 - 16 March. ^[1]_{SEP}

2001 Co-organizer and lecturer at the Abdus Salam ICTP Summer Colloquium on the Physics of Weather and Climate: Land-Atmosphere Interactions and the Hydrologic Cycle, Trieste, Italy, 28 May - 15 June.

2001 Co-organizer of the Abdus Salam ICTP Advanced Course on Climate Change in the Mediterranean Region - Part II: Socio-economic Aspects, Trieste, Italy, 12 - 16 November. ^[1]_{SEP}

2002 Co-organizer of the Abdus Salam ICTP Spring Colloquium on Regional Weather Prediction Modeling and Predictability Trieste, Italy, 8 - 19 April. ^[1]_{SEP}

2002 Lecturer at the START/TWAS Vulnerability and Adaptation Assessment Methods Training Course, Trieste, Italy, 3-14 July.

2002 Co-organizer of the Second ICTP Conference on Detection and Modeling of Regional Climate Change, Trieste, Italy, 30 September - 4 October. ^[1]_{SEP}

2003 Co-organizer and lecturer at the First ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 26 May - 6 June. ^[1]_{SEP}

2003 Co-organizer and lecturer at the Abdus Salam ICTP Seminar on Development and Application of Isotope Tracer Diagnostics in Regional Climate Models, Trieste, Italy, 22-26 September. ^[1]_{SEP}

2004 Co-organizer and lecturer at the APN South Asia Workshop on Regional Climate

modeling, Islamabad, Pakistan, 16-27 February. [1] [SEP]

2004 Co-organizer and lecturer at the Second ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 31 May - 9 June. [1] [SEP]

2005 Lecturer at the European Research Course on Atmospheres (ERCA 2005), Grenoble, France, 10 January - 11 February. [1] [SEP]

2005 Co-organizer of the Abdus Salam ICTP Spring Colloquium on the Physics of Weather and Climate: Regional weather predictability and modeling, Trieste, Italy, 11-22 April.

2005 Lecturer at the First International Workshop on Climate Variability over Africa, Alexandria, Egypt, 15-26 May.

2005 Lecturer at the APN Regional Workshop on Climate Change Scenarios for South Asia, Kathmandu, Nepal, 15-19 August.

2005 Lecturer at the ISSAOS Summer School on Coupling Atmospheric and Hydrological Models, L'Aquila, Italy, August 29 - September 2.

2005 Lecturer at the Abdus Salam ICTP Soil Physics College, ICTP, Trieste, Italy, 12-30 September. [1] [SEP]

2006 Co-organizer and lecturer at the First ICTP West African workshop on Regional Climate Change and [1] [SEP]Impacts, Accra, Ghana, 16-20 January. [1] [SEP]

2006 Lecturer at the European Research Course on Atmospheres (ERCA 2006), Grenoble, France, 9 January - 11 February.

2006 Co-organizer and lecturer at the Third ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 29 May - 9 June.

2006 Lecturer at the International Seminar on Climate System and Climate Change (ISCS), Beijing, China, 17-28 July.

2006 Lecturer at the European Space Agency ENVISAT Summer School on "Earth system Monitoring and [1] [SEP]Modelling", ESA/ESRIN, Frascati, 31 July - 11 August. [1] [SEP]

2007 Lecturer at the European Research Course on Atmospheres (ERCA 2007), Grenoble, France, 8 January - 9 February. [1] [SEP]

2007 Co-organizer and lecturer at the Seventh Workshop on the Applicability of Environmental Physics and Meteorology in Africa (APEPMA). The representation of organized convection in climate models, Gaborone, Botswana, 26 February - 2 March.

2007 Co-organizer and lecturer at the Workshop on the Interdisciplinary Science of Global Climate Change, Buenos Aires, Argentina, 12 March - 4 April.

2007 Co-organizer of the ICTP Conference and School on the Predictability of Natural Disasters for our Planet in Danger. A System View: Theory, Models, Data Analysis, Trieste, Italy, 25 June - 6 July.

2007 Lecturer at the ECO Training Course on Usage of Regional Climate Models for Weather-Related Natural Disaster Prediction, Alanya, Turkey, 29 October - 2 November.

2007 Co-organizer and lecturer at the workshop Interpreting climate change simulations. Capacity building for Developing Nations, ICTP, Trieste, Italy, 26-30 November. ^[1]_{SEP}

2008 Lecturer at the European Research Course on Atmospheres (ERCA 2008), Grenoble, France, 10 January - 11 February. ^[1]_{SEP}

2008 Co-organizer and lecturer at the Fourth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 3-14 March.

2008 Co-organizer and lecturer at the Abdus Salam ICTP Conference on African Drought: Observations, Modeling, Predictability, Impacts, Trieste, Italy, 2-6 June 2008.

2008 Lecturer at the Summer School on Climate Forcings and Global Patterns, Istituto Veneto di Scienze, Lettere ed Arti, Venice, Italy, 13-20 June, 2008. ^[1]_{SEP}

2009 Lecturer at the European Research Course on Atmospheres (ERCA 2009), Grenoble, France, 9 January - 10 February. ^[1]_{SEP}

2010 Lecturer at the European Research Course on Atmospheres (ERCA 2010), Grenoble, France, 8 January - 9 February. ^[1]_{SEP}

2010 Co-organizer and lecturer at the Fifth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 31 May - 12 June.

2010 Lecturer at the ISSAOS Summer School on Climate Change and Protected Areas L'Aquila, Italy, 30 August - 3 September.

2010 Lecturer at the Abdus Salam ICTP Soil Physics College, ICTP, Trieste, Italy, 30 August - 10 September.

2010 Co-organizer and lecturer at the International MedClimar-ICTP-ENEA Summer School on the Mediterranean Climate System and regional Climate Change, ICTP, Trieste, 13-22 September. ^[1]_{SEP}

2011 Lecturer at the European Research Course on Atmospheres (ERCA 2011), Grenoble, France, 9 January - 10 February. ^[1]_{SEP}

2011 Co-organizer and lecturer at the Regional Climate Modeling Workshop, Amman, Jordan, 13-17 march.

2011 Lecturer at the Summer Alpine School on Regional Climate Dynamics in the Mediterranean and Beyond: An Earth System Perspective, Valsavarenche, Italy, 20-29 June. ^[1]_[SEP]

2012 Lecturer at the European Research Course on Atmospheres (ERCA 2012), Grenoble, France, 8 January - 9 February. ^[1]_[SEP]

2012 Co-organizer and lecturer at the Sixth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 7 - 18 May.

2012 Co-organizer and lecturer at the First CLIMRUN workshop on Climate Services, ICTP, Trieste, 15-24 October. ^[1]_[SEP]

2013 Lecturer at the European Research Course on Atmospheres (ERCA 2013), Grenoble, France, 7 January - 8 February. ^[1]_[SEP]

2013 Lecturer at the School on Modeling Tools and Capacity Building in Climate and Public Health, ICTP, Trieste, 15-26 April. ^[1]_[SEP]

2014 Lecturer at the European Research Course on Atmospheres (ERCA 2014), Grenoble, France, 8 January - 7 February. ^[1]_[SEP]

2014 Co-organizer and lecturer at the Seventh ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 12 - 23 May. ^[1]_[SEP]

2014 Co-organizer and lecturer at the Abdus Salam ICTP-CICESE First Workshop on Climate Change, Variability and Modeling over Central America and Mexico, Ensenada, Mexico, 10 - 14 November.

2014 Lecturer at the SISSA Masterclass on Bridging the Gap between Science and Society, Trieste, Italy, 10 ^[1]_[SEP] - 14 November. ^[1]_[SEP]

2015 Lecturer at the European Research Course on Atmospheres (ERCA 2015), Grenoble, France, 7 January ^[1]_[SEP] - 6 February. ^[1]_[SEP]

2015 Lecturer at the ICTP-ESP Diploma Course.

2015 Lecturer at the Master Course on Ecology of Global Changes, University of Trieste, Italy. ^[1]_[SEP]

2015 Co-organizer and lecturer at the Abdus Salam ICTP-Manila Observatory RegCM Training Workshop for Southeast Asia, Manila, Philippines, 25-29 May.

2015 Co-organizer and lecturer at the Abdus Salam ICTP Workshop on Uncertainty Quantification in Climate ^[1]_[SEP] Modeling and Projection, Trieste, Italy, 13-17 July.

2016 Lecturer at the European Research Course on Atmospheres (ERCA 2016), Grenoble, France, 11 January - 30 January. ^[1]_[SEP]

2016 Co-organizer and lecturer at the Eighth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 23 May - 3 June. ^[L]_[SEP]

2016 Co-organizer and lecturer at the Second Workshop on Climate Change, Variability and Modeling over Central America and Mexico, San Jose, Costa Rica, 14-18 November. ^[L]_[SEP]

2016 Lecturer at the ICTP-ESP Diploma Course. ^[L]_[SEP] 2016 Lecturer at the Master Course on Ecology of Global Changes, University of Trieste, Italy.

2016 Lecturer at the SISSA Master Course on Science Communication, SISSA, Trieste, Italy. ^[L]_[SEP]

2017 Lecturer at the European Research Course on Atmospheres (ERCA 2017), Grenoble, France, 11 January ^[L]_[SEP]- 09 February. ^[L]_[SEP]

2017 Lecturer at the ICTP-ESP Diploma Course. 2017 Lecturer at the Master Course on Ecology of Global Changes, University of Trieste, Italy.

2017 Lecturer at the SISSA Master Course on Science Communication, SISSA, Trieste, Italy.

2017 Lecturer at the Abdus Salam ICTP Fourth Workshop on Water resources in Developing Countries. ^[L]_[SEP] Hydroclimate Modeling and Analysis Tools, Trieste, Italy, 12-23 June. ^[L]_[SEP]

2018 Lecturer at the European Research Course on Atmospheres (ERCA 2018), Grenoble, France, 9 January ^[L]_[SEP]- 07 February. ^[L]_[SEP]

2018 Lecturer at the Master Course on Ecology of Global Changes, University of Trieste, Italy. ^[L]_[SEP]

2018 Lecturer at the SISSA Master Course on Science Communication, SISSA, Trieste, Italy. ^[L]_[SEP]

2018 Co-organizer and lecturer at the Ninth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 28 May - 8 June. ^[L]_[SEP]

2018 Co-organizer and lecturer at the Abdus Salam ICTP - Vietnam National University Second Training Workshop on Regional Climate Modeling for Southeast Asia, Hanoi, Vietnam, 22-26 October.

2019 Lecturer at the European Research Course on Atmospheres (ERCA 2019), Grenoble, France, 11 January ^[L]_[SEP]- 09 February.

2019 Lecturer at the Master Course on Ecology of Global Changes, University of Trieste, Italy. ^[L]_[SEP]

2019 Lecturer at the SISSA Master Course on Science Communication, SISSA, Trieste,

Italy.

2019 Co-organizer and lecturer at the Abdus Salam ICTP Paper-writing Workshop on the Analysis of the CORDEX-CORE simulations, Trieste, Italy, 6-10 May 2019.

2020 Lecturer at the European Research Course on Atmospheres (ERCA 2018), Grenoble, France, 9 January - 07 February.

2020 Lecturer at the Master Course on Ecology of Global Changes, University of Trieste, Italy.

2020. Lecturer at the RegCM Training Workshop for South Asia, New Delhi (on-line).

2020 Lecturer at the SISSA Master Course on Science Communication, SISSA, Trieste, Italy.

2021 Lecturer at the Master Course on Ecology of Global Changes, University of Trieste, Italy.

2021 Lecturer of a Climate Change Course at the Collegio Fonda, Trieste, Italy, 17-19 May.

2021 Lecturer at the SISSA Master Course on Science Communication, SISSA, Trieste, Italy.

2021 Co-organizer and lecturer at the Tenth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 8-12 November.

2023 Co-organizer and lecturer at the Eleventh ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 2-6 October.

SCIENTIFIC PUBLICATIONS AND CITATION STATISTICS

Scientific Publications

Author of 426 peer reviewed scientific publications (103 as first or only author)

Author of 15 non peer-reviewed book Chapters and Reports (9 as first or only author)

Author of 1 book

Organizer and co-guest editor of 6 Special Issues in scientific journals

Citations Based on the ISI Web of Science (Core Collection):

Included in the ISI 2001, 2022, 2023 Highly Cited Researcher list for the Geosciences.

Over 47,100 citations.

H-Index = 114

120 Scientific Publications with 100 or more citations

4 Scientific Publications with 1000 or more citations

Citations Based on Google Scholar Citations:

Over 97,400 citations

H-Index = 138^[1]_{SEP}

176 Scientific Publications with 100 or more citations

14 Scientific Publications with 1000 or more citations