

PERSONAL INFORMATION

Mario Marcello Miglietta



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SCOPUS ID 6701895937

RESEARCHER ID C-6416-2013

Date of birth 28 September 1970 | Nationality Italian

Current Position CNR-ISAC Research Director

RESEARCH INTERESTS

Summary

My research activity focuses on severe weather events, mainly analyzed through numerical simulations that consider the influence of climate change on their occurrence and severity.

I have published 150 scientific articles in journals listed in Scopus on different topics of meteorology and climatology, mainly orographic precipitation, tropical-like cyclones in the Mediterranean (Medicanes), supercells and tornadoes.

I am coordinator of the CNR-ISAC macro-area “Observations and Models for Meteorology and Climate” (about 65 people).

In the COST action CA19109 - MEDCYCLONES “European network for Mediterranean cyclones in weather and climate” I was the coordinator of the initiative on the definition of “medicane”, which led to the definition (<https://glossary.ametsoc.org/wiki/Medicane>) included in the AMS glossary.

I am currently co-chair of the orographic convection WG in the international TEAMx programme and Scientist in Charge for part of the TEAMx summer EOP (<http://www.teamx-programme.org>), member of the TIM campaign steering group (<https://tim-campaign.eu>), member of the Advisory council of the European Severe Storm Laboratory (ESSL) (01/01/2025-31/12/2028), National representative in the International Association of Meteorology and Atmospheric Science (IAMAS), member of International Commission on Dynamical Meteorology (ICDM)

I have the national scientific qualification for the functions of full professor (year 2016), sector 02/C1 (Astrophysics, Astronomy, Physics of the Earth and Planets) from 03/28/2017 to 03/28/2029 and sector 04/A4 (Geophysics) from 04/04/2017 to 04/04/2029

Bibliometric Indicators

Google Scholar: h-index 46, citations 5771, i10-index 111

SCOPUS: h-index 39, citations 4149, documents 152

Web-of-Science: h-index 37, citations 3942, documents 156

WORK EXPERIENCE

Academic year 2025-2026;
2026-2027

Guest Professor

University of Innsbruck, Innsbruck, Austria

Course on “Atmospheric Dynamics 2”, 5 ECTS-credits, 45 hours, Bachelor course in Atmospheric Sciences, University of Innsbruck, 2nd semester 2025/2026

Course on “Geophysical Fluid Dynamics”, 5 ECTS-credits, 45 hours, Master course, University of Innsbruck, 1st semester 2026/2027

Academic year 2025-2026;
2026-2027

Adjunct Professor

University of Padua, Padua, Italy

Course on “Weather and climate extremes”, 6 CFU, 48 hours, Master's Degree –

Geophysics for Natural Risks and Resources, University of Padua, 2025/2026

Geophysics for Natural Risks and Resources, University of Padua, 2026/2027

01/10/2019-30/11/2023 & 02/09/2024-present	CNR Research Director National Research Council of Italy - Institute of Atmospheric Sciences and Climate (CNR-ISAC), Italy
01/12/2023-01/09/2024	Full Professor University of Bari "Aldo Moro", Department of Earth and Geoenvironmental Sciences
01/01/2024-01/09/2024	CNR-ISAC Collaboration Associate National Research Council Institute of Atmospheric Sciences and Climate (CNR-ISAC), Padua, Italy
05/2022-05/2025	Adjunct Professor College of Agriculture and Natural Resources University of Tehran (Iran)
5-10/9/2021 & 7-12/9/2024	Visiting Scientist (Medcyclones COST Action short term mobility) University of Castilla-La Mancha (UCLM) Toledo (Spain)
Academic year 2018, 2020, 2021, 2023, 2025	Adjunct Professor University of Salento, Lecce, Italy Professor in the 2 nd level "Master in Meteorology and Physical Oceanography": Courses of Synoptic and Mesoscale meteorology (4 CFU; 2018, 2020, 2021, 2023), Dynamic Meteorology (4 CFU; 2018, 2020, 2021, 2023), Weather Forecasting (2 CFU; 2018); Meteorology (6 CFU; 2025).
14-21/10/2016 16-30/08/2017	Visiting Scientist Atmosphere and Ocean Research Institute, University of Tokyo, Japan WRF model implementation for the simulation of tornadic supercells
11/2014-11/2016 01/2017-09/2017	Visiting Scientist Joint Research Center, Institute for Energy and Transport, Renewable Energy Unit, Ispra, Italy Assessment of the complementarity of wind and photovoltaic energy over Europe
04/2011-12/2011	Consultant Joint Research Center, Institute for Environmental Sustainability, Air Quality Unit, Ispra, Italy WRF model validation over Europe
15/11/2005-20/12/2005	Visiting Scientist Universidade Luterana do Brasil, Porto Alegre, Brasil WRF model operational implementation
03/2003-12/2018 (18 visits for a total of 23 months)	Visiting Scientist NCAR, Boulder, Colorado Collaboration with Richard Rotunno in several projects (CNR short term mobility 2003, 2004, 2018)
01/03/2004-30/06/2004	Post-doc researcher Atmosphere and Ocean Research Institute, University of Tokyo, Japan WRF model implementation for the simulation of orographic rainbands
01/01/2007-30/09/2019 27/12/2001-31/12/2006	CNR Researcher CNR Technologist National Research Council of Italy - Institute of Atmospheric Sciences and Climate (CNR-ISAC), Italy (from 10/2010 to 10/2012 at CNR-ISE, Verbania Pallanza)

12/1997-06/1998 **External collaborator**
12/1998-08/1999 FISBAT-CNR, Bologna, Italy
- Numerical simulations of moist flows over orographic obstacles
- Evaluation of error growth and predictability of precipitation in numerical models

01/2001-12/2001 **Officer in the Italian Air Force Weather Service**
National Center for Aeronautic Meteorology and Climatology, Aeroporto "Mario De Bernardi", Pratica di Mare, Rome, Italy
Aviation weather forecast; Validation of the High-Resolution Model (HRM) over Italy

01/1994-01/2001 **Officer in the Italian Air Force Weather Service**
61° Stormo, Galatina Airport, Lecce, Italy
Airdrome weather nowcasts and forecasts

EDUCATION AND TRAINING

15/06/2001-26/12/2001 **Specialization Course in Meteorology and Atmospheric Physics**
Italian Air Force Training Center, Pratica di Mare, Italy
Training Corse (Weather Meteorological Organization level I)

01/11/1996-10/12/1999 **PhD in Physics**
University of Lecce, Italy
Thesis: Numerical simulation of moist flows over orography with meteorological limited area models

04/01/1994-10/04/1994 **Specialization Course in Meteorology and Atmospheric Physics**
Italian Air Force Training Center, Pratica di Mare, Italy
Training for weather forecaster (equivalent to Weather Meteorological Organization level II)

11/1988-30/07/1993 **Master degree in Physics**
University of Lecce, Italy
Complementary courses of Theoretical Physics; Thesis: Application of quantum groups to physics; Grade: 110/110 with laude

09/1983-07/1988 **Scientific High School**
Liceo Scientifico C. De Giorgi, Lecce, Italy
High School; Final grade: 60/60

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1-B2	B1-B2	B1	B1	B1
German	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

INSTITUTIONAL & OTHER RESPONSIBILITIES

May 2009-January 2016 & Member of the Managing Committee of the Institute

September 2019- Nov 2023

2011-present	National representative in the steering committee of the International Conference on Alpine Meteorology (ICAM)
April 2019-Nov 2023 & February 2025-present	Coordinator of the CNR-ISAC macro-area "Observations and Models for Meteorology and Climate" (65 people)
2020-2026	Co-chair of the orographic convection WG in the international TEAMx programme; Scientist in Charge during the TEAMx summer Extensive Observational Period in July 2025 (http://www.teamx-programme.org),
January 2023-November 2023	Responsible of CNR-ISAC, Padua unit; member of Padua CNR Research Area Committee
01/01/2019-31/12/2026 (2 4-year mandates)	National Representative in the International Association of Meteorology and Atmospheric Science (IAMAS) Member of the Italian Commission for the participation of the CNR in the International Union of Geodesy (IUGG)
11/12/2018-31/12/2022	Security referent and coordinator – CNR-ISAC, Padua Unit
13/07/2023-present 12/06/2024-05/02/2025	Member of International Commission on Dynamical Meteorology (ICDM) Coordinator of the working group "Extremes", CNR-ISAC (35 people)
01/01/2025-present	Member of the Advisory council of the European Severe Storm Laboratory (ESSL)
21/02/2025-15/03/2025	Member of the CNR-ISAC Scientific Commission to support the procedures for the Italian Evaluation of the Quality of Research (VQR 20-24)
23/01/2026-present	IT Manager for the ISAC office in Padua
2026-present	Member of the TIM campaign steering group (https://tim-campaign.eu)

NATIONAL AND INTERNATIONAL GRANTS & AGREEMENTS (as principal investigator/ WP leader)

01/01/2004-31/12/2006	Responsible for the activities of dynamic meteorology for ISAC-CNR in the project "RISK AWARE", European program INTERREG IIIB - area CADSES, coordinator of activity 1.07 "Selection of meteorological models and methodologies for different scenarios"; total project funding: 2,8 M€ (co-funding: 1,4 M€); funding for ISAC-CNR unit: 198 k€;
28/5/2004-22/1/2008	Responsible of Task 3 (meteorological modeling and data assimilation) in the MIUR Project n. 245 "Development of an Integrated system using Numerical models, Instrumentation and Advanced Technologies for the Study and Forecast of the Transport and Diffusion of pollutants in the atmosphere", funded by the Italian Ministry of Education, University and Research (MIUR), decree of the General Director n. 1406, 28/5/2004; funding for the whole project: 375 k€; funding for Task 3: 31 k€;
2005-2006	P.I. of the project "Forecast of meteorological fields in the Otranto Strait" within the Executive Program of implementation of the cooperation program in science and technology between the Government of the Italian Republic and the Government of the Republic of Albania (duration: 24 months); funds: 2 scientific visits;
01/06/2006-30/11/2008	P.I. for ISAC-CNR of the Project "RISKMED", INTERREG III B ARCHIMED region; total funds: 993 k€; funding for ISAC-CNR: 300 k€; member of the Scientific Committee of the project;
20/10/2006-31/12/2010	P.I. for CNR-ISAC of the Project "CLIMESCO" funded by the Italian Integrated Special Fund for Research as part of the Strategic Program "Sustainable development and climate change" and of the Project Objective "Simulations, diagnosis and predictions of climate change" (lead agency: CRA - Agronomic Research Institute); total funding: 2,3 M€, funding for ISAC-CNR: 239 k€; Head of research line 2 – Climate Change;
09/2007-01/2008	P.I. in the research contract n. 1400005194 "Implementing a multi-model system for forecasting meteorological fields - in particular wind on a wind farm site" funded by ENEL SpA, funding: 30 k€;
4/4/2008-11/10/2010	Scientific Leader of WP4 " Limited Area Meteorological Modeling" in the Strategic Project PS080 "Advanced nowcasting using grid and gis tools" as part of the scientific research program of Apulia region; total funding: 990 k€, funding for WP4: 155 k€; member of the Scientific and Technical Committee and of the Committee for the training of young researchers;
2013-2014	Responsible for the Italian activities in the project HyMeX-COOP, ENVI-Med 2012, as part of the activities of Mistrals

1/6/2016-31/12/2017	metaprogram funded by the Ministry of Foreign and European Affairs of the French government; total funding of the project: 20k€; funds for ISAC-CNR: 2 scientific visits;
01/11/2016-31/10/2019	P.I. of the Italy-Japan bilateral cooperation project (CNR-JSPS) "Comparison of tornadic supercells and their environmental conditions in Japan and Italy"; total funding for ISAC-CNR: 16 k€;
22/07/2013-21/07/2015	P.I. for ISAC-CNR of the CEASELESS project, Horizon 2020, Call H2020-EO-2016, EO-3-2016 Topic: Evolution of Copernicus services, Type of action: Research and Innovation action; total funding for the project: 1,99 M€; funding for ISAC-CNR: 65 k€;
26/01/2016-25/01/2021	P.I. of the Agreement between ARPA-Puglia and ISAC-CNR for cooperation concerning weather activities;
13/06/2016-12/06/2019	P.I. of the Agreement between ARPA Friuli Venezia Giulia and ISAC-CNR for cooperation concerning weather activities;
25/01/2017-06/08/2018 & 29/09/2021-28/09/2027	P.I. of the Agreement with TerrSafeLab Enterprise (Higher Education and Applied Research in Territory Safety Innovation Lab) for cooperation concerning weather activities in the field of nowcasting;
17/10/2019-13/03/2020	P.I. of the Operating Agreement for Teaching and Research Activities between ISAC-CNR and Università del Salento;
25/01/2021-31/01/2027	P.I. for the Italian part of the research project entitled "High-resolution numerical simulations of tornadoes for using artificial intelligence", funded by Meteorological Research Institute (MRI), Japan Meteorological Agency for developing a "Detection method of tornado-spawning mesocyclones using a machine learning technique", Public/Private R&D Investment Strategic Expansion Program (PRISM) sponsored by Cabinet Office of Japan; funding: 7.4 k€;
01/09/2023-28/02/2026	P.I. for the Technical-scientific Collaboration Agreement with the Tide Forecast and Early Warning Center (CPSM) – Civil Protection - Municipality of Venice for the implementation of an experimental data assimilation system for the analysis and weather forecasting for time horizons up to 6-12 hours:
14/03/2024-31/12/2026	MODULE 1: period of activity: 10/01/2021-09/01/2022, funding: 35 k€.
03/05/2024-02/05/2029	MODULE 2: period of activity: 10/01/2022-09/02/2023, funding: 35 k€.
31/03/2025-30/03/2028	MODULE 3: period of activity: 27/10/2022-31/12/2025, funding: 35 k€.
	MODULE 4: period of activity: 01/11/2025-31/01/2027, funding: 35 k€.
	Unit Leader for the project "Thunderstorm outflows measurement and modeling for strong-WIND nowcast and RISK mitigation (-WIND RISK)", PRIN 2022, funding for ISAC 109.1 K€
	WG Leader "Earth Observations as a cornerstone to the understanding and prediction of tropical-like cyclone risk in the Mediterranean (MEDICANES)" In response to: ESA CfP/5-50033/23/I-KE call, funding for ISAC 190 k€
	P.I. of the Operating Agreement for Teaching and Research Activities between ISAC-CNR and Università di Bari;
	P.I. for the Technical-scientific Collaboration Agreement with the Tide Forecast and Early Warning Center (CPSM) – Civil Protection - Municipality of Venice

TEACHING ACTIVITY

28-31 May 2001	Lessons during the training course in Environmental Meteorology, at IIA-CNR, Montelibretti (Roma), topic: "3D diagnostic and prognostic meteorological models" (2 hours)
2005, 2006, 2008	Lessons in courses at University of Salento (2005, 2006, 2008) (10, 10, 16 hours)
2006 & 2014	Teacher in training courses for the personnel of ARPA Puglia (12 and 94 hours)
2007	Lessons in courses at University of Ferrara (2007) (10 hours)
25-09-2013/12-06-2014	Responsible and organizer of the "personnel training course" for ARPA-Puglia (120 hours)
2014	Teacher in a training course for the personnel of OSMER Friuli Venezia Giulia (1.5 hours)
2014-2015	Teacher in a training course for the personnel of Centro Funzionale Protezione Civile Valle d'Aosta (35 hours)
2015	Teacher in a training course for the personnel of Centro Funzionale Protezione Civile Friuli Venezia Giulia (16 hours)
2015-2025	Lecturer in the training schools CVC "Convective and Volcanic Clouds detection, monitoring and modeling" (topics: Orographic convection and Medicanes), Castiglione del Lago, Italy, 2015, Tarquinia, Italy, 2016 and 2017, Nicolosi, Italy, 2018, 2019, 2022, 2023, 2024, Vulcano island, Italy, 2025 (the last six as keynote lecturer); online, 2021; (4, 6, 6, 10, 6, 4, 4, 2, 2, 1.5, 4 hours)
2016-2023	Lessons in courses at University of Bologna (2016, 2017, 2018, 2019, 2023) (4, 4, 10, 4, 2 hours)
2017	Lecturer in the training school "EASI- Exploring Air-Sea interaction via airborne measurements", Shannon (Ireland) (3 hours)
2018, 2020, 2021, 2023, 2025	Adjunct Professor, University of Salento, Lecce (Italy), in Master (2nd level) in Physical Meteorology and Oceanography. Courses:
	- Synoptic and Mesoscale meteorology (32 hours; 4CFU, 2018, 2020, 2021, 2023)
	- Dynamic Meteorology (32 hours; 4 CFU, 2018, 2020, 2021, 2023)
	- Weather Forecasting (16 hours; 2 CFU; 2018)
	- Meteorology; modules of Synoptic and Mesoscale meteorology and Dynamic Meteorology (48 hours; 6 CFU; 2025)
13-16/12/2021	Lecturer in a training course for forecasters of ARPA Liguria on "Thermodynamics and atmospheric instability", 12 hours in two editions (24 hours in total), Meteo-Hydrological Center, ARPAL, Genoa
2022	Lecturer in the 8 th CNR-ISAC summer school; lessons on "Extratropical cyclones and Medicanes" (3 hours); June 20-24, 2022, Castro Marina (Lecce), Italy; http://ss2022.le.isac.cnr.it
	- Lecturer in the 1 st MedCyclones WORKSHOP and TRAINING SCHOOL; lesson on "Medicanes" (1 hour), June 27 – July 2, 2022, Athens, Greece
	Lecturer in the 9 th CNR-ISAC summer school; lessons on "The challenge of precipitation prediction" (3 hours); July 3-7, 2022, Castro Marina (Lecce), Italy; http://ss2023.le.isac.cnr.it
2023	Member of the Scientific Committee of the 1st course of operational weather forecasting co-organized by AISAM-ItaliaMeteo and Lecturer (1 hour lecture on orographic precipitation in Italy), Bologna, 23 October 2023
2024	Training session on Medicanes detection (3 hours), Tropicana workshop, Institute Pascal, Orsay, France, 5 June

	2024	Lecturer on topic: "Medicanes" (2 hours; 17 July 2024), 3 rd MedCyclones WORKSHOP and TRAINING SCHOOL, Frascati, Italy, 15-19 July 2024 As Full Professor, University of Bari, Courses: "Synoptic and Mesoscale Meteorology" (Master Degree: LM74 e LM79), 4 CFU – 32 hours "Extreme Weather Events"; PhD course in "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY"; 2 CFU – 16 hours
	2025	4-hour course, The weather forecast explained to non-meteorological technicians, www.moho.work and Venezia Mestre, 21-02-2025 Lecturer on topic: "Mediterranean cyclones and Medicanes" (2 hours; 29/6-4/7/2025), X CNR-ISAC Summer school "Severe weather in a changing climate" Lecturer on topic "Orographic precipitation in Italy" of the 3 rd course of operational weather forecasting co-organized by AISAM-ItaliaMeteo (1 hour lecture), Bologna, 9 October 2025
	2026	Course on "Weather and climate extremes", 6 CFU, 48 hours, Geophysics for Natural Risks and Resources master degree, University of Padua, 2025/2026 Course on "Elements of Atmospheric Physics and Climatology"; Winter School "Understanding and managing the post-global world – from the impact of new technologies to climate change, 8 hours, Università del Salento, 26 January - 5 February 2026 Module "Mesoscale Meteorology-4" (3 hours) in the course "AMPRO–Edition 4 for METEOROLOGIST TECHNICIAN", 07/03/2026 3-hour lesson on Tornadoes, Civil Protection "Torre d'Oglio", Mantua province, Campitello di Marcaria, 21/3/2026 Guest Professor, Atmospheric Dynamics 2 (5 ECTS-Credits); 45 hours; Batchelor in Atmospheric Sciences, University of Innsbruck, a.y. 2025-2026 Lecturer for 4 hours, Advanced course on "Severe Convective Storm and Hail"; Centro Internazionale di Scienze Meccaniche (CISM), Udine, Italy, 20-24 July 2026; https://cism.it/en/activities/courses/C2611/ Lecture on Medicanes, Workshop of Advanced Meteorology, Cavanis Institute, Venice, 3 hours, 17 Oct 2026
	2002-present	- Supervisor of 5 intern, 2 Batchelor thesis, 18 master's degree thesis, 15 2 nd level master stages, 11 2 nd level master thesis, 8 PhD students. Supervisor of 5 research fellows, 2 researchers (temporary position); host of 11 foreign researchers (from Spain, Japan, Austria, USA) in scientific visits

ORGANIZATION

2005-present	Member of the scientific/organizing committee in 13 summer schools organized/co-organized by ISAC-CNR
2007-2023	Convener of sessions at the European Meteorological Society (EMS) annual meeting
29/5-2/6/2018	Member of the scientific/organizing committee in the 11 th HyMeX workshop, Lecce, Italy
3/9/2019	Member of the scientific committee of the Richard Rotunno Symposium, Riva del Garda, Trento, Italy
27/09/2022	Member of the Organizing Committee of the 1 st Forecasters–Researchers Round, Bologna, Italy
18-21/10/2022	Member of the scientific committee of 17 th Plinius Conference, Frascati, Italy
08-12/05/2023	Member of the Scientific Program Committee, 11th European Severe Storms Conference, Bucharest, Romania
19-23/06/2023	Member of the Program Committee of ICAM-2023, St. Gallen, Switzerland
26/09/2023	Member of the Organizing Committee of the 2 nd Forecasters–Researchers Round table, Turin, Italy
5-9/2/2024	Member of the Scientific and Organizing Committee of the 5 th AISAM Annual meeting, Lecce
9-10/5/2024	Member of the Scientific Committee of the international conference on "Environment, Climate and Earth Sciences", ECES2024, Dep. Physics, University of Tirana, Albania
8-10/7/2024	Member of the Scientific Committee of the Workshop "Toward a better understanding of extreme events in Med Basin: combining numerical models and remote sensing", Castro Marina (Lecce), Italy
19/09/2024	Member of the Organizing Committee of the 2 nd Forecasters–Researchers Round table, Turin, Italy
25-26/9/2024	Member of the Organizing Committee and moderator of a session in the Workshop "Potentially dangerous natural events: models, uncertainties, communication", organized by the CNR – IUGG Commission, Rome
30/09-03/10/2024	Member of the Scientific Committee and Co-convener of the Session PL1, 18 th Plinius Conference on Mediterranean Risks, Chania, Greece
13-19/10/2024	Member of the Scientific Committee of the workshop "Linking weather and climate dynamics across scales", Nanjing University International Conference Center, China.
20-25/07/2025	Scientific Committee of the joint IAMAS – IACS – IAPSO Assembly and convener of the session M09 (Mesoscale Meteorology), BACO-2025, Busan, South Korea
20-23/04/2026	Moderator of Session 1: Early Warning in the Era of Climate Change, The first Joint Conference of AFMS-IFMS-EMI, Addis Ababa, Ethiopia
17-18/09/2026	Member of the Organizing Committee of the Workshop "Words that inform and protect: Communication of potentially dangerous natural phenomena and events and their impacts", organized by the CNR – IUGG Commission, Rome
06-09/10/2026	Member of the Scientific Committee, Chair and Co-convener of the Session PL1, 19 th Plinius Conference on Mediterranean Risks, Murcia, Spain

FURTHER INFORMATION

Awards

- 2000: FY1999 post-doctoral fellowship for North-American and European Researchers from JSPS (Japan Society for the Promotion of Science) (24 months); unused scholarship;
- 2004: JSPS short term fellowship (4-month stay in Japan)
- 2014 & 2017: Outstanding contribution in reviewing for Atmospheric Research
- 2017: The paper "Effect of a positive sea surface temperature anomaly on a Mediterranean tornadic supercell" was one of the 100 most read Earth sciences papers in Scientific Reports in 2017
- 2019: Award MeteoClima FVG of the Unione Meteorologica Friuli Venezia Giulia (member of the European Meteorological Society) for the best paper on the meteorology of the region in the period 2015-2019
- 2023: Best Talk Jury Award ECSS2023 for the presentation De Martin F., Davolio S., Miglietta M. M., Levizzani V., A conceptual model for the development of tornadoes in the Po Valley
- 2023: METMED 2023 Oral Award for the presentation De Martin F., Davolio S., Miglietta M. M., Levizzani V., A conceptual model for the development of tornadoes in the Po Valley
- 2023: winner of the competition for Full Professor in Oceanography and Atmospheric Physics, University of Bari, Procedure Code 2023 - PO - 1240
- 2023: winner of the competition for Full Professor in Oceanography and Atmospheric Physics, University of Milan, Procedure Code 2023 - PO - 5304 (withdrawal having won the competition for P.O. in Bari)
- 2024: Selected by ScholarGPS among the Top Scholars (top 0.5%) in meteorology worldwide in the last 5 years (2018-2022) (182nd place in the ranking)
- 2025: Camiel et al., <http://dx.doi.org/10.1002/qj.4889> awarded as a top 10% viewed article in 2025 among the papers published in QJRMS in 2024

Evaluation of research results

- Reviewer for international journals (41 journals, 157 papers)
- Scientific expert for the Italian Ministry of Education and Research for the evaluation and monitoring activities of the Industrial Research and Experimental Development project AEROMAT (2019-2023)
- Member of the Review panel of the Collaborative Research Centre/Transregio 165 "Waves to Weather" of the Deutsche Forschungsgemeinschaft (2019 and 2024)
- Member of the review panel for the European Research Executive Agency (REA) for the evaluation of proposals submitted in response to the call Horizon 2020-MSCA-IF-2019
- Member of the review panel for the European Research Executive Agency (REA) for the evaluation of proposals submitted in response to the call Horizon-MSCA-2025-PF (9 proposals)
- Member of the review panel for the European Research Executive Agency (REA) for the evaluation of proposals submitted in response to the call HORIZON-CL5-2026-07-D1-05 (3 proposals)
- Member in 14 evaluation committee board for PhD candidates, 2 evaluation boards for Associate Professor and 2 for Assistant Professor
- President of the final exam (second session), 2nd level Master in Meteorology and Physical Oceanography, a.y. 2024/2025
- Participation in the Evaluation of the Italian Research 2011-2014
- Atmosphere 2022 Young Investigator Award - Committee Member
- Reviewer of project proposals for: the Czech Science Foundation; the Marsden Fund Council of the Royal Society of New Zealand; the US National Science Foundation; the United States-Israel Binational Science Foundation, CONICYT-Chile; Italian Ministry of Education and Research (MIUR); Austrian Science Fund (twice); NRDI-Hungary; Israeli Ministry of Innovation, Science and Technology; Deutsche Forschungsgemeinschaft (5 times); Swiss National Science Foundation; Cyprus Research and Innovation Foundation (RIF) (call 2024 and 2026); University of Naples Federico II; Autonomous Province of Trento; Le Havre Normandy University (EUNICoast Postdoctoral Programme).

Associate Editor for the Quarterly Journal of the Royal Meteorological Society (2024-);
 Associate Editor for Atmospheric Research (2014-);
 Review Editor (2013-2025) and Community Reviewer (2025-) for Frontiers in Atmospheric Sciences;
 Advisory Board member for Atmosphere (2024-);
 Guest Editor for Advances in Science and Research (2007-2023);
 Member of the Editorial Board of Bulletin of Atmospheric Science and Technology (2019-2024);
 Member of the Editorial Board and Section (Meteorology) Board of Atmosphere (2019-2024);
 Member of the Editorial Board of Advances in Meteorology (2015-2021);
 Guest Editor of a Special Issue on "Atmosphere" (2019);
 Guest Editor for a Special Issue of Meteorologische Zeitschrift (2013);
 Member of the Editorial Board of The Scientific World Journal (2012-2017);
 Member of the Editorial Board of Dataset Papers in Geosciences (2012-2017).

Additional activities

- Advisory board of the Project "Satellite-borne and IN-situ Observations to Predict the Initiation of Convection for ATM (SINOPTICA)", H2020-SESAR-2019-2, 01/06/2020-30/11/2022
- International review team, Royal Meteorological Society's project to establish a learning portal for African Meteorological Societies (AfMS), 01/08/2022 - 30/11/2022
- 20 seminars to the general public (3 participations to Science Festivals, lesson in schools), preparation of brochures and videos, several interviews in TV and radio channels, newspapers and magazines (9 radio interviews, 15 TV interviews, 5 of which were live).

- Contribution about medicanes for the 2026 Calendar of the Deutsche Meteorologische Gesellschaft (DMG)
- Consultant in civil and criminal trials for the Court of Justice in Lecce and for ILVA company (twice)

PERSONAL SKILLS

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|------------------------------------|--|
| Communication skills | <ul style="list-style-type: none"> ▪ Strong-to-very strong communication skills (certified by EU Competency Passport) ▪ Natural attitude to work as a team member |
| Organisational / managerial skills | <ul style="list-style-type: none"> ▪ Online Course "Relational Leadership: Transform Conflicts into Opportunities", teacher Dr. Giancarlo Bertolo, Udemy, 4.5 ore, 2024-2025 ▪ Strong resilience (certified by EU Competency Passport) ▪ Prioritizing ▪ Leadership |
| Job-related skills | <ul style="list-style-type: none"> ▪ Experience in numerical meteorological modelling, in handling large datasets, in operational forecasting ▪ Experience in project management |

ATTACHMENT

- List of the publications in the main research fields

20 September 2026

List of the main publications

1. Pisano A., V. de Toma, E. Avolio, F. Serva, C. Fanelli, D. Ciani, R. Santoleri, B. Buongiorno Nardelli, M. M. Miglietta, S. Marullo, Observational evidence for a shift toward a warming-dominated phase of Mediterranean SST evolution, *Environmental Research Letters*, 21, 174014, <https://doi.org/10.1088/1748-9326/ae9ee2>
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9. Avolio E., M.M. Miglietta, C. Fanelli, M. Lagasio, M. Tadesse Mengistu, M. Milelli, A. Parodi, A. Xhelaj, M. Burlando, Analysis of the 18 August 2022 western Mediterranean derecho: Atmospheric dynamics and impacts over the northwestern Italian coast, *Atmos. Res.*, 336, 108858, 2026, <https://doi.org/10.1016/j.atmosres.2026.108858>
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