

PERSONAL INFORMATION Antonio Parodi



WORK EXPERIENCE

- 08/01/1999–31/03/2007 **Researcher**
CIMA – Centro di ricerca Interuniversitario in Monitoraggio Ambientale (Interuniversity Research Centre for Environmental Monitoring), Savona (Italy)
- 01/04/2007–01/01/2014 **Project Leader**
CIMA RESEARCH FOUNDATION, Savona (Italy)
- 01/01/2014–31/01/2017 **Research Director**
CIMA RESEARCH FOUNDATION, Savona (Italy)
- 01/02/2017–Present **Program Director**
CIMA RESEARCH FOUNDATION

EDUCATION AND TRAINING

- 01/09/1993–22/12/1998 **Master Degree in Environmental Engineering**
University of Genoa, Genoa (Italy)
- 01/02/2000–01/02/2003 **PhD in Hydraulic Engineering and Environmental Systems Modelling**
University of Padua, Padua (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C1	C2	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Exercised teaching and communication skills. Excellent ability of dealing with public talks and exposition.

Organisational / managerial skills Great ability of relations with other people and of team building as well as a natural recognized

leadership. Skills in managing large complex project: scheduling, human and financial resources, criticality analysis

Job-related skills

Key qualifications:

- More than 10 years of relevant experience in environmental engineering, early warning system with special focus on computational fluid dynamics and numerical weather prediction, e-Science (high-performance, grid and cloud computing) for hydro-meteorology modelling and data services at national and international level
- Responsible/coordinator of at least 5 projects implementing DRR applications, including e-Science (high-performance, grid and cloud computing, data) services for hydro-meteorology research and operational services
- About 50 peer reviewed scientific publications on severe hydrometeorological phenomena observation and modelling, e-Science solutions for hydro-meteorology research and operational services (see. Publications)
- Proven track of coordinating Training program at Academic and professional level (Bachelor and MS level at University Genova, at Ph.D. level at University of Genova and University of Pavia) and high specialization courses (courses for Civil protection managers) and thematic study tours on early warning systems and civil protection capacities.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Independent user	Proficient user	Independent user	Proficient user

Digital skills - Self-assessment grid

Database: Advanced; Internet/Mail: Advanced; Presentation tools: Advanced; Spreadsheet: Advanced; Text processing: Advanced; Programming languages (Fortran, C, Matlab), Unix/linux

ADDITIONAL INFORMATION

Projects

- 2003-2007:** P.I. of several research projects in the field severe hydro-meteorological events modeling predictions commissioned by the Italian Civil Protection Department
- 2009-2011: Project Coordinator of the EU FP7 funded Project (Distributed Research Infrastructure for Hydro-Meteorology Study, www.drihms.eu, DG-INFO/DG-CONNECT, contract number 246703, 250 keuro)**
- 2010-2012:** Operational management services and technological innovations for the prediction of hydrogeological and forest fires risks- Research in the field of legal responsibilities of civil protection - Cooperation in civil protection in the countries that are the subject of interventions of the Department of civil Protection - Activity 2011-2012 (Convention No. 1112 of 10/8/2011)
- 2010-2013: Project Leader of the Enhancing Resilience to Reduce Vulnerability in the Caribbean (CIMA, 1 Meuro).** This initiative took an integrated approach to vulnerability reduction and enhancing resilience to climate change, natural hazards and poverty through enhanced civil protection, with regard to Barbados and the Organization of Eastern Caribbean States.
- 2011-2015: Project Coordinator of the EU FP7 funded Project (Distributed Research Infrastructure for Hydro-Meteorology, www.drihm.eu, DG-INFO/DG-CONNECT, contract number 283568, 3.5 Meuro)**
- 2012-2013:** Support activities for the development and management of early warning systems, for purposes of civil protection and forest fire prevention in Bolivia, EWS Expert for the development of meteorological modeling system
- 2012-2015: Project Coordinator of the EU FP7 funded Project (Distributed Research Infrastructure for Hydro-Meteorology to US, www.drihm2us.eu, DG-INFO/DG-CONNECT, contract number 313122, 0.5 Meuro)**
- 2012-2015: Project Coordinator of the High Performance Computing GAUSS project "Extreme PREcipitation and Hydrological climate Scenario Simulations" at LRZ (EXPRESS-Hydro, 42 Mcpu hours,**

https://www.lrz.de/services/compute/supermuc/magazinesbooks/2016_SuperMUC-Results-Reports.pdf, pages 230-231)

2017-2019: Project Coordinator of the STEAM – SaTellite Earth observation for Atmospheric Modelling (ESA, Invitation to Tender AO/1-8963/17/NL/AF, 0.3 Meuro, <http://www.cimafoundation.org/cima-foundation/projects/steam.html>)

2018-2019: Project Coordinator of the High Performance Computing ISCRA-B project DEEP (Data-assimilation for Extreme Event Prediction, 3.5 Mcpu hours) at CINECA

2019-2021: WP7 Weather and Climate (0.7 Meuro) leader within the H2020 project Large-scale EXecution for Industry & Society (LEXIS) to increase, within the context of Copernicus Services (e.g. ESA Sentinel data assimilation), increase the timeliness and quality of prediction and analyses. Simplify the access to such services from the cloud, in order to expand the downstream markets: emergency management, sustainable food and energy production, air quality

2020-2023 Project Coordinator of the H2020 SINOPTICA (1.0 Meuro) - Satellite-Borne and In-Situ Observations to Predict the Initiation of Convection for ATM dedicated to the assimilation of data for the improvement of mathematical models used in the prediction of extreme events, in order to support air traffic management

2020-2030 WP2 Application, Language, and Data Requirements (0.28 Meuro) leader within H2020 project dEsign enVironmEnt foR Extreme-Scale big data analytics on heterogeneous platforms (EVEREST) to explore the portability of the WRF model in FPGA environment, as well as the execution of hydro-meteorological and air quality workflows on high performance computing facility Mission Advisory Group (MAG) of Earth Explorer 10 Hydrotterra-ESA (2018-2020)

Publications

1. **Parodi, A.**, Lagasio, M., Meroni, A. N., Pignone, F., Silvestro, F., & Ferraris, L. (2020). A hindcast study of the Piedmont 1994 flood: the CIMA Research Foundation hydro-meteorological forecasting chain. *Bulletin of Atmospheric Science and Technology*, 1-22.
2. Lagasio, M., Meroni, A. N., Boni, G., Pulvirenti, L., Monti-Guarnieri, A., Haagmans, R., ... & **Parodi, A.** (2020). Meteorological losses for new zenith total delay observations: Impact assessment for the hydrotterra geosynchronous satellite on the October 2019 Genoa event. *Remote Sensing*, 12(22), 3787.
3. Meroni, A. N., Montrasio, M., Venuti, G., Barindelli, S., Mascitelli, A., Manzoni, M., **Parodi, A.**, ... & Tagliaferro, G. (2020). On the definition of the strategy to obtain absolute InSAR Zenith Total Delay maps for meteorological applications. *Front. Earth Sci*, 8, 359.
4. Burlando, M., Romanic, D., Boni, G., Lagasio, M., & **Parodi, A.** (2020). Investigation of the Weather Conditions During the Collapse of the Morandi Bridge in Genoa on 14 August 2018 Using Field Observations and WRF Model. *Atmosphere*, 11(7), 724.
5. Esposito, G., **Parodi, A.**, Lagasio, M., Masi, R., Nanni, G., Russo, F., ... & Giannatiempo, G. (2019). Characterizing Consecutive Flooding Events after the 2017 Mt. Salto Wildfires (Southern Italy): Hazard and Emergency Management Implications. *WATER*, 11(12), 2663.
6. **Parodi, A.**, Lagasio, M., Maugeri, M., Turato, B., & Gallus, W. (2019). Observational and Modelling Study of a Major Downburst Event in Liguria: The 14 October 2016 Case. *ATMOSPHERE*, 10(12), 788.
7. Lagasio, M., **Parodi, A.**, Pulvirenti, L., Meroni, A. N., Boni, G., Pierdicca, N., ... & Gatti, A. (2019). A Synergistic Use of a High-Resolution Numerical Weather Prediction Model and High-Resolution Earth Observation Products to Improve Precipitation Forecast. *REMOTE SENSING*, 11(20), 2387.
8. Lagasio, M., Pulvirenti, L., **Parodi, A.**, Boni, G., Pierdicca, N., Venuti, G., ... & Rommen, B. (2019). Effect of the ingestion in the WRF model of different Sentinel-derived and GNSS-derived products: analysis of the forecasts of a high impact weather event. *EUROPEAN JOURNAL OF REMOTE SENSING*, 1-18.
9. Lagasio, M., Silvestro, F., Campo, L., and **Parodi, A.** Predictive capability of a high-resolution hydrometeorological forecasting framework coupling WRF cycling 3dvar and Continuum, *JOURNAL OF HYDROMETEOROLOGY*, <https://journals.ametsoc.org/doi/abs/10.1175/JHM-D-18-0219.1>
10. Silvestro, F., Rossi, L., Campo, L., **Parodi, A.**, Fiori, E., Rudari, R., & Ferraris, L. (2019). Impact-based flash-flood forecasting system: Sensitivity to high resolution numerical weather prediction systems and soil moisture. *JOURNAL OF HYDROLOGY*, <https://doi.org/10.1016/j.jhydrol.2019.02.055>.
11. Ragone, F., Mariotti, M., **Parodi, A.**, von Hardenberg, J. and Pasquero C., Impact of Convection and Microphysics Parameterization on the Statistics of Western Mediterranean Medicanes, *ATMOSPHERE*, <https://doi.org/10.3390/atmos9100397>, 2018
12. Meroni, A. N., Renault, L., **Parodi, A.**, & Pasquero, C. Role of the Oceanic Vertical Thermal Structure in the Modulation of Heavy Precipitations Over the Ligurian Sea. *PURE AND APPLIED GEOPHYSICS*, 1-20, 2018.

13. Silvestro, F., **Parodi, A.**, Campo, L., and Ferraris, L.: Analysis of the streamflow extremes and long term water balance in Liguria Region of Italy using a cloud permitting grid spacing reanalysis dataset, *HYDROL. EARTH SYST. SCI. DISCUSS.*, <https://doi.org/10.5194/hess-2017-339>, 2018.
14. Meroni, A. N., **Parodi, A.**, & Pasquero, C. Role of SST Patterns on Surface Wind Modulation of a Heavy Midlatitude Precipitation Event. *JOURNAL OF GEOPHYSICAL RESEARCH: ATMOSPHERE*, <https://doi.org/10.1029/2018JD028276>, 2018
15. Gallus Jr, W. A., **Parodi, A.**, & Maugeri, M. (2018). Possible impacts of a changing climate on intense Ligurian Sea rainfall events. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*, 38, e323-e329, <https://doi.org/10.1002/joc.5372>.
16. **Parodi, A.**, Kranzlmüller, D., Clematis, A., Danovaro, E., Galizia, A., Garrote, L., ... & Siccardi, F. (2017). DRIHM (2US): An e-Science Environment for Hydrometeorological Research on High-Impact Weather Events. *BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY*, 98(10), 2149-2166.
17. Fiori, E., Ferraris, L. , Molini, L., Siccardi, F., Kranzlmüller, D., and **Parodi, A.** (2017), Triggering and evolution of a deep convective system in the Mediterranean Sea: modelling and observations at a very fine scale, *QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY*, <https://doi.org/10.1002/qj.2977>
18. Harpham, Q., Gimeno, O., **Parodi, A.**, & D'Agostino, D. (2017). A stakeholder consultation into hydro-meteorological e-science environments. *EARTH SCIENCE INFORMATICS*, 10(2), 219-234.
19. Lagasio, M., **Parodi, A.**, Procopio, R., Rachidi, F., & Fiori, E. (2017). Lightning Potential Index performances in multimicrophysical cloud-resolving simulations of a back-building mesoscale convective system: The Genoa 2014 event. *JOURNAL OF GEOPHYSICAL RESEARCH: ATMOSPHERES*, 122(8), 4238-4257.
20. Leong, S. H., **Parodi, A.**, & Kranzlmüller, D. (2017). A robust reliable energy-aware urgent computing resource allocation for flash-flood ensemble forecasting on HPC infrastructures for decision support. *FUTURE GENERATION COMPUTER SYSTEMS*, 68, 136-149.
21. Marras, I., Fiori, E., Rossi, L., & **Parodi, A.** (2017). Effects of the Representation of Convection on the Modelling of Hurricane Tomas (2010). *ADVANCES IN METEOROLOGY*, vol. 2017, Article ID 1762137, 14 pages, 2017. doi:10.1155/2017/1762137.
22. Poletti, M. L., **Parodi, A.** and Turato, B. (2017), Severe hydrometeorological events in Liguria region: calibration and validation of a meteorological indices-based forecasting operational tool. *METEOROLOGICAL APPLICATIONS*, doi:10.1002/met.1653
23. **Parodi, A.**, Ferraris, L., Gallus, W., Maugeri, M., Molini, L., Siccardi, F., & Boni, G. (2017). Ensemble cloud-resolving modelling of a historic back-building mesoscale convective system over Liguria: the San Fruttuoso case of 1915. *CLIMATE OF THE PAST*, 13(5), 455.
24. D'Agostino, D., Danovaro, E., Clematis, A., Roverelli, L., Zereik, G., **Parodi, A.**, & Galizia, A. (2016). Lessons learned implementing a science gateway for hydro-meteorological research. *CONCURRENCY AND COMPUTATION: PRACTICE AND EXPERIENCE*, 28(7), 2014-2023.
25. Harpham, Q., Lhomme, J., **Parodi, A.**, Fiori, E., Jagers, B., & Galizia, A. (2016). Using OpenMI and a Model MAP to Integrate WaterML2 and NetCDF Data Sources into Flood Modeling of Genoa, Italy. *JAWRA JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION*, 52(4), 933-949.
26. Viterbo, F., von Hardenberg, J., Provenzale, A., Molini, L., **Parodi, A.**, Sy, O. O., & Tanelli, S. (2016). High-Resolution Simulations of the 2010 Pakistan Flood Event: Sensitivity to Parameterizations and Initialization Time. *JOURNAL OF HYDROMETEOROLOGY*, 17(4), 1147-1167.
27. von Hardenberg, J., **Parodi, A.**, Pieri, A. B., & Provenzale, A. (2015). Impact of Microphysics and Convective Parameterizations on Dynamical Downscaling for the European Domain. In *Engineering Geology for Society and Territory-Volume 1* (pp. 209-213). Springer International Publishing.
28. Hally, A., Caumont, O., Garrote, L., Richard, E., Weerts, A., Delogu, F., Fiori, E., Rebora, N., **Parodi, A.**, ... & Clematis, A. (2015). Hydrometeorological multi-model ensemble simulations of the 4 November 2011 flash flood event in Genoa, Italy, in the framework of the DRIHM project. *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES*, vol. 15, p. 537-555, ISSN: 1684-9981.
29. Hally, A., Caumont, O., Garrote, L., Richard, E., Weerts, A., Delogu, F., Fiori, E., Rebora, N., **Parodi, A.**, ... & Clematis, A. (2015). Hydrometeorological multi-model ensemble simulations of the 4 November 2011 flash flood event in Genoa, Italy, in the framework of the DRIHM project. *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES*, vol. 15, p. 537-555, ISSN: 1684-9981
30. Quarati, A., Danovaro, E., Galizia, A., Clematis, A., D'Agostino, D., **Parodi, A.** (2015). Scheduling strategies for enabling meteorological simulation on hybrid clouds. *JOURNAL OF APPLIED & COMPUTATIONAL MATHEMATICS*, ISSN: 2168-9679
31. Pieri, A. B., von Hardenberg, J., **Parodi, A.**, & Provenzale, A. (2015). Sensitivity of precipitation statistics to resolution, microphysics, and convective parameterization: A case study with the high-resolution WRF climate model over Europe. *JOURNAL OF HYDROMETEOROLOGY*, vol. 16, p. 1857-1872, ISSN: 1525-755X
32. Fiori, E., Comellas, A., Molini, L., Rebora, N., Siccardi, F., Gochis, D. J., **Parodi A.** (2014). Analysis and hindcast simulations of an extreme rainfall event in the Mediterranean area. *ATMOSPHERIC RESEARCH*, vol. 138, p. 13-29, ISSN: 0169-8095, doi: doi:10.1016/j.atmosres.2013.10.007
33. Rebora, N., Molini, L., Casella, E., Comellas, A., Fiori, E., Pignone, F., **Parodi, A.** (2013). Extreme rainfall in the mediterranean: what can we learn from observations?. *JOURNAL OF HYDROMETEOROLOGY*, vol. 14, p. 906-922, ISSN: 1525-755X
34. Pinto, J. G., Ulbrich, S., **Parodi, A.**, Rudari, R., Boni, G., & Ulbrich, U. (2013). Identification and ranking of extraordinary rainfall events over Northwest Italy. *JOURNAL OF GEOPHYSICAL RESEARCH*, vol. 118, p. 2085-2097, ISSN: 0148-0227, doi: 10.1002/jgrd.50179

35. Silvestro, F., Gabellani, S., Giannoni, F., **Parodi, A.**, Rebora, N., Rudari, R., & Siccardi, F. (2012). A hydrological analysis of the 4 November 2011 event in Genoa. *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES*, ISSN: 1684-9981
36. Bedrina, T., **Parodi, A.**, A. Quarati, A. Clematis (2012). ICT approaches to integrating institutional and non-institutional data services for better understanding of hydro-meteorological phenomena. *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES*, ISSN: 1684-9981
37. Comellas, A., **Parodi, A.**, Fuchs, Z., & Molini, L. (2013). Saturation fraction and gross moist stability in severely precipitating systems in the midlatitude Mediterranean environment. *ATMOSPHERIC RESEARCH*, ISSN: 0169-8095
38. **Parodi, A.**, Boni, G., Ferraris, L., Siccardi, F., Pagliara, P., Trovatore, E., ... & Kranzmueller, D. (2012). The “perfect storm”: From across the Atlantic to the hills of Genoa. *EOS, Transactions American Geophysical Union*, 93(24), 225-226.
39. Molini, L., **Parodi, A.**, N. Rebora, G. C. Craig (2011). Classifying severe rainfall events over Italy by hydrometeorological and dynamical criteria. *QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY*, vol. 137, p. 148-154, ISSN: 0035-9009
40. Comellas, A., L. Molini, **Parodi, A.**, A. Sairouni, M. C. Llasat, and F. Siccardi (2011). Predictive ability of severe rainfall events over Catalonia for year 2008. *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES*, vol. 11, p. 1813-1827, ISSN: 1684-9981
41. **Parodi, A.**, E. Foufoula-Georgiou E., K. A. Emanuel (2011). Signature of microphysics on spatial rainfall statistics. *JOURNAL OF GEOPHYSICAL RESEARCH. ATMOSPHERES*, ISSN: 0148-0227, doi: doi:10.1029/2010JD015124
42. Schiffers, M., **Parodi A.**, et al (2011). Towards a Grid Infrastructure for Hydro-Meteorological Research. *COMPUTER SCIENCE*, vol. 12, p. 45-62, ISSN: 1508-2806
43. **Parodi, A.**, and S. Tanelli (2010). Influence of turbulence parameterization on high resolution numerical modeling of observed tropical convection during NASA TC4 field campaign. *JOURNAL OF GEOPHYSICAL RESEARCH. ATMOSPHERES*, vol. 115, ISSN: 0148-0227, doi: 10.1029/2009JD013302
44. Fiori, E., **Parodi, A.**, and F. Siccardi (2010). Joint effects of turbulent parameterizations, microphysics and grid spacing on the high resolution modeling of deep moist convective processes. *ATMOSPHERIC RESEARCH*, ISSN: 0169-8095
45. Fiori, E., **Parodi, A.**, and F. Siccardi (2010). Turbulence closure parameterization and grid spacing effects in simulated supercell storms. *JOURNAL OF THE ATMOSPHERIC SCIENCES*, ISSN: 0022-4928
46. **Parodi, A.**, and K. A. Emanuel (2009). A Theory for Buoyancy and Velocity Scales in Deep Moist Convection. *Journal of the Atmospheric Sciences*, vol. 66, p. 3449-3463, ISSN: 0022-4928
47. Molini, L., **Parodi, A.**, & Siccardi, F. (2009). Dealing with uncertainty: an analysis of the severe weather events over Italy in 2006.. *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES*, vol. 9, p. 1-13, ISSN: 1684-9981
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49. Boni, G., **Parodi, A.**, & Siccardi, F. (2008). A new parsimonious methodology of mapping the spatial variability of annual maximum rainfall in mountainous environments. *JOURNAL OF HYDROMETEOROLOGY*, vol. 9, p. 492-506, ISSN: 1525-755X
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51. von Hardenberg, J., **Parodi, A.**, Passoni, G., Provenzale, A., & Spiegel, E. A. (2008). Large-scale patterns in Rayleigh–Bénard convection. *PHYSICS LETTERS A*, vol. 372, p. 2223-2229, ISSN: 0375-9601
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55. Taramasso, A.C., S. Gabellani, **Parodi, A.** (2005). An operational flash-flood forecasting chain applied to the test cases of the EU project HYDROPTIMET. *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES*, vol. 5, p. 703-710, ISSN: 1684-9981
56. Gabellani, S., Giannoni, F., **Parodi, A.**, Rudari, R., Taramasso, A. C., & Roth, G. (2005). Applicability of a forecasting chain in a different morphological environment in Italy, *ADVANCES IN GEOSCIENCES*, vol. 2, 131-134, ISSN: 1680-7359
57. **Parodi, A.** (2005). Dynamics of intense convective rain cells. *ADVANCES IN GEOSCIENCES*, vol. 2, p. 1-6, ISSN: 1680-7359
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