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Europass Curriculum Vitae

Personal information

First name / Surname: **Marinella Masina**
Nationality: Italian
E-mail: marinella.masina@cmcc.it

Work experience

Dates: Since 09/10/2023
Occupation or position held: Junior scientist in the Risk Assessment and Adaptation Strategies Division (RAAS)
Main activities and responsibilities: Research activities within the following research projects:
- European Space Agency project EO4MULTIHAZARDS "Earth Observation for High-Impact Multi-Hazards Science": multi-hazard assessment and impact chain modelling for the Adige River basin case study;
- European Space Agency project Global Development Assistance (GDA) for Climate Resilience: conceptualization of drought risk analysis for crops;
- EU H2020 project NEXOGENESIS "Facilitating the next generation of effective and intelligent water-related policies utilising artificial intelligence and reinforcement learning to assess the water-energy-food-ecosystem (WEFE) nexus": retrieval of agricultural and water management data for representing critical indicators for the Adige River basin case study;
- EU H2020 project MYRIAD-EU "Multi-hazard and sYstemic framework for enhancing Risk-Informed mAnagement and Decision-making in the E.U.": multi-hazard risk assessment under climate change scenarios in the Veneto Region.

Support in the tutoring of PhD and Master students. Contribution to fund raising activities.
Name and address of employer: CMCC@Ca'Foscari, Edificio Porta dell'Innovazione - Piano 2, Via della Libertà 12 - 30175 Venezia Marghera (VE), Italy

Dates: 05/08/2021 – 04/12/2022
Occupation or position held: Non-occasional self-employment contract
Main activities and responsibilities: Research activities within the GESTFALDA project: "Gestione attiva della falda ipodermica per il contrasto alla risalita del cuneo salino" (Active management of the surface water and shallow groundwater for controlling salt water intrusion), funded by the Programma di Sviluppo Rurale 2014-2020 della Regione Emilia-Romagna. Working time estimated in 1200 hours.
The research activities included:
i) formulation of irrigation recommendations during the 2021 and 2022 growing seasons using the AquaCrop agro-hydrological model (FAO) for soybean crops cultivated in fields, located immediately south of the terminal stretch of the Reno River, characterized by problems of soil and groundwater salinity;
ii) implementation of hindcast numerical simulations using the AquaCrop model to evaluate the effect of differentiated irrigation interventions on soybean yield in the 2021 and 2022 monitoring seasons;
iii) numerical modelling for groundwater recharge estimation and salinity distribution in Valle del Mezzano (FE).
Name and address of employer: Interdepartmental Centre for Industrial Agrofood Research (CIRI Agrifood) of the University of Bologna, Cesena, Italy

Dates: 01/06/2021 – 01/08/2021
Occupation or position held: Postdoc researcher
Main activities and responsibilities: The research activity focused on the analysis of extreme wind gust speeds and their relationship with global climatic variations.
Name and address of employer: Faculty of Civil Engineering & Geosciences, Department of Hydraulic Engineering, Research Group of Coastal Engineering, Delft University of Technology, Delft, The Netherlands

Dates: 01/12/2020 – 31/03/2021
Occupation or position held: Payment for a one-off duty for research activities within the project FUTUREPROOFING HELIDECKS AT SEA: MONITOR, ASSESSMENT AND NEW DESIGN (D2U 2020-22 KEI2020-04-08)
Main activities and responsibilities: The research activity focused on the assessment of extreme loads induced by wind and waves on the Bishop Rock Lighthouse (Isles of Scilly, UK) for the design of a helicopter landing platform at the top.

Name and address of employer	Department of Civil, Environmental and Geomatic Engineering, University College London, Gower Street, London WC1E 6BT, UK
Dates	23/03/2020 – 22/06/2020
Occupation or position held	Non-occasional self-employment contract
Main activities and responsibilities	Research activities within the LIFE AGROWETLANDS II project - Smart Water and Soil Salinity Management in Agro-wetlands (LIFE15 ENV/IT/000423): "Valutazione dell'impatto del progetto Agrowetlands sull'area pilota, valutazione dei risultati della replica in Spagna" (Assessment of the impact of the Agrowetlands project on the pilot area, evaluation of the results of the replication in Spain). Working time estimated in 420 hours.
Name and address of employer	Department of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	20/12/2019 – 19/12/2020
Occupation or position held	Research collaborator as "Laureato Frequentatore"
Main activities and responsibilities	Collaboration in research activities regarding "Idraulica e Remote Sensing nell'ambito del progetto LIFE AGROWETLANDS II e sviluppi futuri" (Hydraulics and Remote Sensing in the LIFE AGROWETLANDS II project and future developments).
Name and address of employer	Department of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	20/12/2018 – 19/12/2019
Occupation or position held	Coordinated and continuous collaboration contract
Main activities and responsibilities	Research activities within the LIFE AGROWETLANDS II project - Smart Water and Soil Salinity Management in Agro-wetlands (LIFE15 ENV/IT/000423): "Modellazione e rilievo dello sviluppo colturale e delle condizioni di stress idrico o da salinità nelle aree di studio del progetto Agrowetlands" (Numerical modelling and survey of crop development and water or salinity stress conditions in the study areas of the Agrowetlands project). Working time estimated in 720 hours.
Name and address of employer	Department of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	27/12/2018 – 26/12/2019
Occupation or position held	Coordinated and continuous collaboration contract
Main activities and responsibilities	Research activities within the LIFE AGROWETLANDS II project - Smart Water and Soil Salinity Management in Agro-wetlands (LIFE15 ENV/IT/000423): "Completamento della messa a punto del modello per il DSS del sistema SMART AGROWETLAND" (Completion of the model development for the SMART AGROWETLAND Decision Support System). Working time estimated in 800 hours.
Name and address of employer	Department of Agricultural and Food Sciences – DISTAL, University of Bologna, Viale G. Fanin 44, 40127 Bologna, Italy
Dates	02/01/2017 – 01/01/2019
Occupation or position held	Research fellow
Main activities and responsibilities	Research title: "Modellazione del comportamento di onde in presenza e assenza di stratificazione" (Numerical modeling of wave behavior in stratified and non stratified fluids). The research fellowship was co-funded by the LIFE AGROWETLANDS II project - Smart Water and Soil Salinity Management in Agro-wetlands (LIFE15 ENV/IT/000423) and residual funds from research projects. The research plan included: 1) activities conducted within the LIFE AGROWETLANDS II project, such as the analysis of geological sections, surveys and penetrometric tests from the Emilia-Romagna Region database available for the study area, and the use of these data to develop a three-dimensional stratigraphic model of the Holocene depositional sequence; 2) modeling tsunami events in the Mediterranean Sea and evaluating wave amplification in bays and ports.
Name and address of employer	Department of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	02/01/2015 – 01/01/2017
Occupation or position held	Research fellow
Main activities and responsibilities	Research title: "Analisi di eventi marini estremi e fenomeni di risonanza portuale" (Analysis of extreme ocean events and harbour resonance). The research fellowship was funded with DICAM Department funds. Identification of the fundamental modes of selected harbours through numerical modelling and non-stationary analysis using wavelet transform of available sea level records, to investigate spectral

	signatures and excitation mechanisms.
Name and address of employer	Department of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	02/01/2013 – 01/01/2015
Occupation or position held	Research fellow
Main activities and responsibilities	Research title: “Modellazione dei fenomeni di inondazione e individuazione del rischio gravante su aree costiere” (Coastal flood modelling and risk assessment). The research fellowship was funded in part by the 2012 Integrated Department Budget and in part with residual funds from research grants. Development of a copula based approach for estimating the joint probability of water levels and waves.
Name and address of employer	Department of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	03/09/2011 – 01/01/2013
Occupation or position held	Research collaborator
Main activities and responsibilities	Collaboration within research activities linked to the formative path
Name and address of employer	Department of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	03/09/2010 – 02/09/2011
Occupation or position held	Research fellowship “professionalizing”
Main activities and responsibilities	Research title: “Analisi e modellazione del rischio di allagamento costiero in Alto Adriatico e delle condizioni predisponenti” (Analysis and modelling of coastal flooding risk in the Upper Adriatic and predisposing conditions). The research fellowship was funded by the project PRIN 2008YNPNT9 “Strumenti per la valutazione della vulnerabilità delle aree costiere in relazione ai previsti cambiamenti climatici”.
Name and address of employer	Department of Civil, Environmental and Materials Engineering – Dicam, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy
Dates	01/02/2009 – 31/07/2010
Occupation or position held	Research fellow
Main activities and responsibilities	Research title: “Impatti morfologici e rischi costieri generati da eventi estremi di mareggiata – Progetto MICORE 202798”. The research activity was carried out within the European project MICORE – Morphological Impacts and COastal Risks induced by Extreme storm events, Grant Agreement n. 202798. The research activities included the analysis of pre- and post-storm topographic surveys to estimate their impact on the beach and dunes, and the estimation of extreme sea level and residual values for different return periods.
Name and address of employer	Department of Earth Sciences, University of Ferrara, Via Saragat 1, Ferrara, Italy
Dates	01/11/2008 – 31/01/2009
Occupation or position held	Coordinated and continuous collaboration contract
Main activities and responsibilities	Collaboration for carrying out activities within the European project MICORE – Morphological Impacts and COastal Risks induced by Extreme storm events, Grant Agreement n. 202798.
Name and address of employer	Consorzio Ferrara Ricerche with operational headquarters in Via Saragat 1, Ferrara, Italy
Dates	01/08/2008 – 31/10/2008
Occupation or position held	Coordinated and continuous collaboration contract
Main activities and responsibilities	Collaboration for carrying out activities within the European project MICORE – Morphological Impacts and COastal Risks induced by Extreme storm events, Grant Agreement n. 202798.
Name and address of employer	Consorzio Ferrara Ricerche with operational headquarters in Via Saragat 1, Ferrara, Italy
Dates	03/04/2008 – 30/06/2008
Occupation or position held	Project work based coordinated and continuous collaboration contract
Main activities and responsibilities	Collaboration for carrying out the project “Realizzazione di un software per la valutazione del punto di massima ingressione marina in seguito a fenomeni di mareggiata e completamento della banca dati” (Development of a software for assessing the maximum marine intrusion due to storm events and completion of the database).
Name and address of employer	Consorzio Ferrara Ricerche with operational headquarters in Via Saragat 1, Ferrara, Italy
Teaching activities	

Academic Year 2019/2020 (30 h), 2018/2019 (30 h), 2017/2018 (30 h), 2016/2017 (30 h): teaching tutor for the course “Meccanica dei Fluidi T” (Mechanics of Fluids) for the First cycle degree programme in Mechanical Engineering at the University of Bologna.

Academic Year 2011/2012 (45 h): teaching tutor for the course “Difesa Idraulica del Territorio Urbano e Costiero M” (Hydraulic Defence of the Urban and Coastal Territory M) for the Second cycle degree programme in Building and Urban Systems Engineering of the University of Bologna in Ravenna.

10/2019 (15 h), 02/2018 – 03/2018 (15 h): Teacher for “Corso Matlab” (Matlab course), five coordinated seminars for the Ph.D. Programme in Civil, Chemical, Environmental and Materials Engineering (PhD@DICAM) and the Ph.D. Programme in Structural and Environmental Health Monitoring and Management (SEHM2) at the University of Bologna.

03/2017 (15 h), 11/2015 – 12/2015 (10 h): Teacher for “Corso Matlab” (Matlab course), five coordinated seminars for the Ph.D. Programme in Civil, Chemical, Environmental and Materials Engineering at the University of Bologna.

04/2013 – 06/2013 (20 h), 04/2012 – 05/2012 (12 h): Teacher for “Metodi numerici con applicazioni MATLAB” (Numerical methods with MATLAB applications), coordinated seminars for the Ph.D. Programme in Civil, Environmental and Materials Engineering at the University of Bologna.

03/2013 (1 h), 03/2012 (5 h), 11/2011 (2 h): Classroom exercise conducted within the course “Coastal Engineering” for the Second cycle degree programme in Civil Engineering at the University of Bologna.

04/2013 – 06/2013 (7 h), 05/2012 (6 h): Classroom exercises conducted within the course “Probabilità, stima e decisioni con applicazione ai processi ingegneristici” (Probability, estimation and decision-making with applications to engineering processes) for the Ph.D. Programme in Civil, Environmental and Materials Engineering at the University of Bologna.

04/2011 (5 h): Classroom exercises conducted within the course “Probabilità, stima e decisioni con applicazione ai processi ingegneristici” for the Ph.D. Programme in Civil and Environmental Engineering at the University of Bologna.

Education and training

Dates	05/02/2025 – 07/02/2025
Title of qualification awarded	Certificate of attendance
Principal subjects covered	Online course “Introduction to Python programming”.
Name and type of organisation providing education and training	The course, delivered as webinar, was organized by Cineca, Casalecchio di Reno (BO), Italy.
Date	05/12/2024
Title of qualification awarded	Certificate of attendance with learning verification
Principal subjects covered	Training course for ““Lavoratore” rischio basso, settore ATECO 72 – Ricerca scientifica e sviluppo”. Total training duration: 8 hours.
Name and type of organisation providing education and training	The course was organized by the Euro-Mediterranean Centre on Climate Change Foundation (CMCC) in Venice, Ed. Porta dell’Innovazione - Via della Libertà, 12.
Dates	07/10/2024
Title of qualification awarded	Certificate of attendance
Principal subjects covered	Training course on “L’ABC della protezione dei dati personali – Il corso consigliato dai DPO”. Total training duration: 3 hours.
Name and type of organisation providing education and training	Training course organized by Digitalaw S.r.l. (https://digitalaw.it/).
Dates	09/01/2023 – 30/04/2023
Title of qualification awarded	Certificate of completion
Principal subjects covered	Massive Open Online Course (MOOC) on Machine Learning in Weather and Climate. Total course duration: 40 hours.
Name and type of organisation providing education and training	The MOOC was organized by the European Centre for Medium-Range Weather Forecasts (ECMWF) in partnership with the International Foundation on Big Data and Artificial Intelligence for Human Development (IFAB) and offered by the University of Luxembourg Competence Centre (ULCC).
Dates	07/06/2017 – 09/06/2017
Title of qualification awarded	Certificate of attendance 18 CFP - Crediti Formativi Professionali (Professional Development Credits) - awarded by the Associazione Acque Sotterranee Scuola e Formazione for the participation in the course.

Principal subjects covered	Training course on “Water resource management with the FREEWAT platform integrated in QGIS”. Total course duration: 44 hours, divided into 3 days of self-training and 3 days of in-person lectures.
Name and type of organisation providing education and training	Training course organized within the framework of the EU H2020 FREEWAT “Free and Open Source Software Tools for Water Resource Management” project at “La Sapienza” University of Rome, Rome, Italy.
Dates	09/03/2015 – 20/03/2015
Title of qualification awarded	Certificate of attendance 57 CFP awarded by the Order of Engineers of the Province of Ravenna for the participation in the Winter School.
Principal subjects covered	Winter School on “Introduction to Off-Shore and Marine Systems Engineering”. Total Winter School duration: 60 hours.
Name and type of organisation providing education and training	The Winter School was organized by the University of Bologna at the Ravenna Campus, Ravenna, Italy, in collaboration with Fondazione Flaminia and the Order of Engineers of the Province of Ravenna.
Dates	24/06/2013 – 28/06/2013
Title of qualification awarded	Certificate of attendance
Principal subjects covered	Advanced School on Data Assimilation
Name and type of organisation providing education and training	The Advanced School was organized by the Euro-Mediterranean Center on Climate Change (CMCC) in Bologna, Italy.
Dates	01/01/2009 – 31/12/2011
Title of qualification awarded	Doctor of Philosophy in Earth Sciences
Principal subjects covered	Dottorato di Ricerca in Scienze della Terra (Ph.D. program in Earth Sciences), Cycle XXIV, scientific disciplinary sector GEO/04 - Physical geography and geomorphology. Ph.D. thesis: “Risposta morfologica della spiaggia compresa tra Lido di Dante e Lido di Classe ad eventi di mareggiata” (Morphological response of the beach between Lido di Dante and Lido di Classe to storm surge events), https://iris.unife.it/handle/11392/2389249. Ph.D. final exam passed on 06/03/2012 with score “Ottimo”.
Name and type of organisation providing education and training	Department of Earth Sciences, University of Ferrara, Ferrara, Italy
Date	28/10/2009
Title of qualification awarded	Conferment of the title “Cultore della materia” (Subject Expert) in “Elementi di Geologia e Geomorfologia” (Elements of Geology and Geomorphology) and “Dinamica dei litorali” (Coastal Dynamics) at the Faculty of Engineering of the University of Ferrara
Name and type of organisation providing education and training	Engineering Faculty Council of the University of Ferrara, Ferrara, Italy
Dates	17/09/2009 – 19/11/2009
Title of qualification awarded	Certificate of attendance with learning verification
Principal subjects covered	Training course for “Certificatore energetico in edilizia in attuazione della D.G.R. n. 1754 del 2008”. Total course duration: 60 hours + 12 hours of project work. Final verification passed on 14/12/2009.
Name and type of organisation providing education and training	The course was organized by the Order of Engineers of the Province of Ferrara, Ferrara, Italy.
Dates	June-July 2008
Title of qualification awarded	Professional qualification to Engineering Practice
Principal subjects/occupational skills covered	Esame di Stato (State Exam for Professional Practice) passed with written test score 53/60 and oral examination score 60/60.
Name and type of organisation providing education and training	University of Bologna, Bologna, Italy
Date	11/12/2007
Title of qualification awarded	Laurea Vecchio Ordinamento (Master Degree) in Civil Engineering, Hydraulic Sector
Principal subjects covered	Thesis: “Vulnerabilità da ingressione marina in condizioni di mareggiata lungo la costa centro-meridionale dell’Emilia-Romagna”. Score: 110/110. Main courses attended: Hydraulics; Lithology and Geology; Topography; Hydrology; Fluvial Hydraulics; Maritime Hydraulics; Hydraulic Structures; Sanitary and Environmental Engineering; Geotechnics; Structural Mechanics; Structural Engineering; Roads, Railways and Airports Construction; Territorial Planning

Name and type of organisation providing education and training	University of Ferrara, Ferrara, Italy
Date	School Year 1992/1993
Title of qualification awarded	Scientific high school diploma. Score: 60/60.
Name and type of organisation providing education and training	Liceo Scientifico Statale “A. Roiti”, Ferrara, Italy

Personal skills and competences

Mother tongue: **Italian**

Other language

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	B2	Good	C1	Advanced	B2	Good	B2	Good	C1	Advanced

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

Communication skills

Good communication and interpersonal skills acquired during the years of study and strengthened through research activity.

Willingness for dialogue and discussion.

Organisational skills

Work planning with a clear definition of phases and priorities.

Practical and realistic approach to problem solving.

High accuracy and precision in carrying out professional tasks.

Respect for deadlines, even under tight work schedules.

Ability to work independently and in multidisciplinary teams.

Teaching tutoring activities for university students.

Technical skills and competences

Reconstruction of historical data series for temperature, precipitation, wind speed and direction, wave, tide and river discharge measurements; application of methodologies for data quality check and homogenization.

Time series analysis of instrumental measurements and reanalysis model outputs to estimate variability and trends of climatic and meteomarine parameters.

Application of extreme value theory to estimate the probability of extreme events; stationary and non-stationary analysis for the characterization of extreme events; univariate and multivariate analyses; dependence modelling using copula functions.

Coastal vulnerability assessment to marine storm events with a given return period; mapping of their potential impacts on coastal areas in terms of flood.

Analysis of meteomarine measurements for the reconstruction of the offshore wave climate; detection and statistical analysis of extreme wave and storm surge events in observational data; assessment of storm impacts on the coast through the analysis of topographic surveys and Lidar data; numerical modelling of wave propagation and morphological evolution of beaches and dune systems.

Application of methodologies based on wavelet transform and Hilbert transform for the identification of oscillations associated with tsunamis and meteotsunamis in high-frequency sea level time series.

Numerical modelling of tsunami events: analysis of the generation mechanism and wave propagation, simulation and analysis of wave dynamics and induced currents in ports and harbours to assess potential damage to vessels and mooring structures.

Numerical modelling of soil water balance.

Monitoring of saltwater intrusion in coastal aquifers; monitoring of water level, electrical conductivity and temperature in piezometric wells and channels using sensors (e.g., Decagon CTD-10).

Hydrogeological analysis and numerical simulation of saltwater intrusion in coastal aquifers.

Numerical simulation of crop development and irrigation water requirements using agro-hydrological modelling; environmental and phenological field surveys and analysis of data from in-field sensor networks for the acquisition of information necessary for model calibration; evaluation of the effects of soil, groundwater and irrigation water salinity on crop productivity.

Processing of satellite data for land cover and land use analysis, estimation of land surface temperature (LST), evaluation of crop phenological stages, assessment of the vegetation

physiological state, estimation of actual evapotranspiration using the Surface Energy Balance Algorithm for Land (SEBAL), estimation of soil salinity and observation of natural phenomena.

Application of machine learning algorithms: identification of extreme climate events (e.g., drought, heatwaves) in gridded observational datasets; detection of spatiotemporal patterns of soil salinity using satellite remote sensing data.

Application of methodologies for single risk assessment and multi-risk assessment integrating multiple climate related hazards and exposure and vulnerability factors for future climate scenarios.

In-depth bibliographic analysis using scientific databases, including Scopus, Web of Science and Google Scholar.

Computer skills and competences

Operating system: Microsoft Windows.
Programming languages: MATLAB (The MathWorks), R and RStudio Desktop.
Software: Microsoft Office Suite (Word, Excel, PowerPoint, Outlook), QGIS, AutoCAD (Autodesk), GIMP, Flow Model FM and Spectral Waves FM of MIKE 21 modelling suite (DHI), SBEACH (U.S. Army Corps of Engineers), XBeach 1D (Deltares), RockWorks (RockWare), AquaCrop (FAO), Hydrus-1D (PC-Progress), FREEWAT platform including MODFLOW and SEAWAT codes, SNAP (European Space Agency), Coulomb 3.3 (U.S. Geological Survey), CPeT-IT (GeoLogismiki), CPT-PaGE (Geotecnica UniPI).

Driving licence

Driving licence category B

Additional information

Publications

International refereed journals with impact factor

Masina M., D'Ayala D., Antonini A. (2022). Variations in monthly maximum gust speed at St Mary's, Isles of Scilly (UK). Earth and Space Science, 9(11), e2022EA002380, American Geophysical Union, Wiley Periodicals LLC, ISSN: 2333-5084, doi: 10.1029/2022EA002380.

Khosroshahi S. F., Masina M., Antonini A., Ransley E., Brownjohn J. M. W., Dobson P., D'Ayala D. (2022). A Multidisciplinary Computational Framework for Topology Optimisation of Offshore Helidecks. Journal of Marine Science and Engineering, 10(9), 1180, MDPI, ISSN: 2077-1312, doi: 10.3390/jmse10091180.

Masina M., Archetti R., Lamberti A. (2020). 21 May 2003 Boumerdès Earthquake: Numerical Investigations of the Rupture Mechanism Effects on the Induced Tsunami and Its Impact in Harbors. Journal of Marine Science and Engineering, 8(11), 933, MDPI, ISSN: 2077-1312, doi: 10.3390/jmse8110933.

Masina M., Lambertini A., Daprà I., Mandanici E., Lamberti A. (2020). Remote Sensing Analysis of Surface Temperature from Heterogeneous Data in a Maize Field and Related Water Stress. Remote Sensing, 12(15), 2506, MDPI, ISSN: 2072-4292, doi: 10.3390/rs12152506.

Masina M., Calone R., Barbanti L., Mazzotti C., Lamberti A., Speranza M. (2019). Smart water and soil-salinity management in agro-wetlands. Environmental Engineering and Management Journal, 18(10), 2273–2285, "Gheorghe Asachi" Technical University of Iasi, Romania, ISSN: 1582-9596.

Cipolla S. S., Maglionico M., Masina M., Lamberti A., Daprà I. (2019). Real time monitoring of water quality in an agricultural area with salinity problems. Environmental Engineering and Management Journal, 18(10), 2229–2240, "Gheorghe Asachi" Technical University of Iasi, Romania, ISSN: 1582-9596.

Masina M., Archetti R., Besio G., Lamberti A. (2017). Tsunami taxonomy and detection from recent Mediterranean tide gauge data. Coastal Engineering, 127, 145–169, Elsevier, ISSN: 0378-3839, doi: 10.1016/j.coastaleng.2017.06.007.

Masina M., Lamberti A., Archetti R. (2015). Coastal flooding: A copula based approach for estimating the joint probability of water levels and waves. Coastal Engineering, 97, 37–52, Elsevier, ISSN: 0378-3839, doi: 10.1016/j.coastaleng.2014.12.010.

Masina M., Lamberti A. (2013). A nonstationary analysis for the Northern Adriatic extreme sea levels. Journal of Geophysical Research: Oceans, 118(9), 3999–4016, American Geophysical Union, John Wiley & Sons, Inc., ISSN: 2169-9275, doi: 10.1002/jgrc.20313.

Armaroli C., Ciavola P., Perini L., Calabrese L., Lorito S., Valentini A., Masina M. (2012). Critical storm thresholds for significant morphological changes and damage along the Emilia-Romagna coastline, Italy. Geomorphology, 143–144, 34–51, Elsevier, ISSN: 0169-555X, doi: 10.1016/j.geomorph.2011.09.006.

Armaroli C., Ciavola P., Masina M., Perini L. (2009). Run-up computation behind emerged breakwaters for marine storm risk assessment. Journal of Coastal Research, SI 56, 1612–1616, Coastal Education and Research Foundation, Inc., ISSN: 0749-0208.

National refereed journal

Masina M., Ciavola P. (2011). Analisi dei livelli marini estremi e delle acque alte lungo il litorale ravennate. Studi costieri, 18, 87–101, Gruppo Nazionale per la Ricerca sull'Ambiente Costiero, ISSN: 1129-8588, https://www.gnrac.it/it/rivista/18/dettaglio.

National non-refereed journals

Masina M., Lamberti A., Speranza M. (2020). Irrigazione smart per i suoli salini. Terra è vita, 16, 48–50, Edizioni Edagricole - Edizioni Agricole di New Business Media s.r.l., ISSN: 2421-356X.

Valentini A., Deserti M., Ciavola P., Armaroli C., Masina M., Perini L., Calabrese L. (2009). I nuovi studi su mareggiate e fenomeni erosivi. ARPA Rivista, 6, 16–18, Agenzia regionale prevenzione e ambiente dell'Emilia-Romagna, ISSN: 1129-4922.

Book chapter

Perini L., Luciani P., Ciavola P., Armaroli C., Masina M. (2010). Cartografia della vulnerabilità alle mareggiate. In: Il sistema mare-costa dell'Emilia-Romagna, a cura di L. Perini e L. Calabrese, pp. 203–210, Edizioni Pendragon, Bologna, Italia, ISBN: 978-8883428487.

Monograph

Speranza M. (a cura di) (2020). LIFE AGROWETLANDS II: Guida all'utilizzo del sistema Smart Agrowetlands per gli agricoltori. Il portale di interfaccia Agrowetlands. Dipartimento di Scienze e Tecnologie Agro-Alimentari, Bologna, Italia, ISBN: 9788854970342, doi: 10.6092/unibo/amsacta/6502.
(Authors in alphabetical order: Fiorentini L., Lamberti A., Masina M., Sacchetti M., Speranza M., Tavelli E.)

National refereed conference proceedings

Lamberti A., Masina M., Lambertini A., Borgatti L. (2018). La contaminazione salina nella fascia costiera tra i fiumi Reno e Lamone: l'influenza delle condizioni geomorfologiche per l'ingressione di acqua marina. Atti del XXXVI Convegno Nazionale di Idraulica e Costruzioni Idrauliche, IDRA 2018, Ancona, 12-14 Settembre 2018, Memoria Nr. 317, ISBN: 9788894379907, https://gii-idraulica.it/eventi-e-convegni/.

Archetti R., Samaras A., Antonini A., Gaeta M. G., Lamberti A., Guerrero M., Masina M., Moreno Miquel A., Petruzzelli V., Pinardi N. (2014). Previsioni in realtime dello stato del mare ad elevata risoluzione per la cognizione dell'ambiente marino. Atti del XXXIV Convegno Nazionale di Idraulica e Costruzioni Idrauliche, IDRA14, Bari, 7-10 Settembre 2014, pp. 433–434, Zaccaria Editore, Napoli, ISBN: 978-88-904561-8-3, https://gii-idraulica.it/eventi-e-convegni/.

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Masina M., Furlanetto J., Ferrario D. M., Maraschini M., Fonseca H. L., Crespi A., Terzi S., Pittore M., Critto A., Torresan S. (2024). Spatio-temporal analysis of dry and hot events in the Adige River basin. Abstract in MEDCLIVAR-SISC 2024: Bridging multiple space and time scales in climate sciences (7th MedCLIVAR and 12th SISC Annual conference), Lecce, Italy, 24-27 September 2024.

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Sedrati M., Ciavola P., Armaroli C., Fontana E., Masina M. (2009). Morphological change by overwash on a microtidal backshore: Bevano beach, Northern Adriatic Sea. European Geosciences Union General Assembly 2009, Vienna, Austria, 19-24 April 2009, Geophysical Research Abstracts, Vol. 11, EGU2009-13745, https://meetingorganizer.copernicus.org/EGU2009/EGU2009-13745.pdf.

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(Masina M. is among the authors of the chapters 2, 3 and 4)

Archetti R., Petruzzelli V., Masina M., Moreno Miquel A. (2014). Descrizione degli scenari estremi in mare aperto e in zona costiera. Progetto di Ricerca: Sviluppo di TEcnologie per la 'Situational Sea Awareness'. Deliverable D5.4-DSSEW-V3. Data: 31/01/2014.

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Masina M. (2007). Vulnerabilità da ingressione marina in condizioni di mareggiata lungo la costa centro-meridionale dell'Emilia-Romagna. Tesi di laurea. Università degli Studi di Ferrara, Ferrara, Italia.

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Participation in research projects

Marinella Masina has been involved in several European and national projects:

2024: collaborator in research activities within the project Global Development Assistance (GDA) for Climate Resilience, funded by the European Space Agency (ESA), Work Package Number: 2400, Work Package Title: Climate risk assessment platform for the International Monetary Fund (IMF).

2023 – 2025: collaborator in research activities within the project EO4MULTIHAZARDS "Earth Observation for High-Impact Multi-Hazards Science" funded by the European Space Agency (ESA); ESA Contract reference No. 4000141754/23/I-DT.

2023 – 2025: collaborator in research activities within the NEXOGENESIS project "Facilitating the next generation of effective and intelligent water-related policies utilising artificial intelligence and reinforcement learning to assess the water-energy-food-ecosystem (WEFE) nexus", European Union's Horizon 2020 Framework Programme call H2020-LC-CLA-2018-2019-2020; Grant agreement ID: 101003881; coordinator: Stichting IHE Delft Institute for Water Education, Netherlands.

2023 – 2025: collaborator in research activities within the MYRIAD-EU project "Multi-hazard and sYstemic framework for enhancing Risk-Informed mAnagement and Decision-making in the E.U."; European Union's Horizon 2020 Framework Programme call H2020-LC-CLA-2018-2019-2020; topic: Multi-hazard risk management for risk-informed decision-making in the E.U.; Grant agreement ID: 101003276; coordinator: Vrije Universiteit Amsterdam - Stichting VU, Netherlands.

2021 – 2023: collaborator in research activities within the GESTFALDA project "Gestione attiva della falda ipodermica per il contrasto alla risalita del cuneo salino", Programma di Sviluppo Rurale 2014-2020 della Regione Emilia-Romagna, application N. 5206511; project leader: Consorzio di Bonifica di Secondo Grado per il Canale Emiliano Romagnolo, Italy.

2020 – 2021: collaborator in research activities within the Discovery to Use project FUTUREPROOFING HELIDECKS AT SEA: MONITOR, ASSESSMENT and NEW DESIGN, funded by the Engineering and Physical Sciences Research Council (EPSRC), Impact Accelerator Award; funding ID: D2U 2020-22 KEI2020-04-08; lead research organisation: University College London, United Kingdom.

2017 – 2020: research fellow and, subsequently, collaborator in research activities within the European project LIFE AGROWETLANDS II "Smart Water and Soil Salinity Management in Agro-wetlands", LIFE Programme 2014-2020 Environment and Resource Efficiency - Call 2015; reference: LIFE15 ENV/IT/000423; project coordinator: Prof. Maria Speranza, Alma Mater Studiorum - University of Bologna, Italy.

2017: Member of the research group proposing the project "Analisi multiscala sulla sostenibilità idrica dell'interazione fra società e ambiente", ALMA IDEA 2017 Grant Junior call of the University of Bologna; principal investigator: Prof. Valentina Ciriello, Department of Civil, Chemical, Environmental

and Materials Engineering of the University of Bologna, Italy.

2014: participant as member of the Research Unit of the University of Bologna in the research activities of the TESSA project, "Sviluppo di TEcnologie per la 'Situational Sea Awareness'", Programma Operativo Nazionale (PON) "Ricerca e Competitività" 2007-2013 del Ministero dell'Istruzione, dell'Università e della Ricerca, co-funded by Fondo Europeo di Sviluppo Regionale (FESR); code: PON01_02823.

2010 – 2012: research fellow within the project "Strumenti per la valutazione della vulnerabilità delle aree costiere in relazione ai previsti cambiamenti climatici", Programma di ricerca di Rilevante Interesse Nazionale (PRIN) Anno 2008 del Ministero dell'Istruzione, dell'Università e della Ricerca; code: 2008YNPNT9; project coordinator: Prof. Alberto Lamberti, University of Bologna, Italy.

2008 – 2010: collaborator and, subsequently, research fellow within the European project MICORE "Morphological Impacts and COastal Risks induced by Extreme storm events", European Union Seventh Framework Programme (FP7); topic: ENV.2007.1.3.1.1. - European storm risk; Grant Agreement ID: 202798; project coordinator: Prof. Paolo Ciavola, University of Ferrara, Italy.

Participation in research agreements

Marinella Masina has been involved in activities associated with the following agreements:

November – December 2024: Consulenza della Fondazione CMCC per la valutazione del rischio climatico per i Gestori di Viveracqua e AcegasApsAmga (area Veneto).

October 2023 – February 2024: "Accordo di collaborazione tecnico-scientifica ex art. 15 l. 241/1990 per attività propedeutiche alla elaborazione della "Strategia regionale di adattamento al cambiamento climatico", tra l'Agenzia Regionale per la Prevenzione e Protezione Ambientale del Veneto e l'Università Ca'Foscari Venezia, Dipartimento di Scienze Ambientali, Informatica e Statistica CUP: J19I22001610002 – responsabile scientifico DAIS Prof. Andrea Critto; Durata: 04.04.2023-30.11.2023."

March 2014 – June 2014: Convenzione di ricerca tra SIAP+MICROS e Centro Interdipartimentale di Ricerca Industriale Edilizia e Costruzioni - Università di Bologna, "Lo studio di onde lunghe causate da sismi sottomarini mediante la analisi di dati mareografici della rete ISPRA". Responsible for the agreement: Prof. Renata Archetti.

Participation as a speaker in conferences and congresses

Lecce, Italy, 25-26 September 2024: MEDCLIVAR-SISC 2024: Bridging multiple space and time scales in climate sciences, "Spatio-temporal analysis of dry and hot events in the Adige River basin" (poster).

Ancona, Italy, 14 September 2018: XXXVI Convegno Nazionale di Idraulica e Costruzioni Idrauliche, IDRA 2018, "La contaminazione salina nella fascia costiera tra i fiumi Reno e Lamone: l'influenza delle condizioni geomorfologiche per l'ingressione di acqua marina" (poster).

Vienna, Austria, 20 April 2016: European Geosciences Union General Assembly 2016, EGU2016-6906 "Meteotsunami occurrence frequency along the Mediterranean coasts" (poster).

Vienna, Austria, 25 April 2012: European Geosciences Union General Assembly 2012, EGU2012-1160 "Investigating dependence in the main sea state parameters with copula approach" (poster).

Vienna, Austria, 25 April 2012: European Geosciences Union General Assembly 2012, EGU2012-1159 "Seasonal statistics of highest sea levels along the northwestern Adriatic coast" (poster).

Participation as a speaker in workshops

Estación Experimental Agraria de Elche, Elche (Alicante), Spain, 12 December 2019: Reunión del proyecto LIFE Agrowetlands II – LIFE15/ENV/IT/000423, "Las nuevas tecnologías en el manejo inteligente del agua de riego en humedales salinos: los casos de la Comunidad de Regantes de Carrizales (España) y la cooperativa Agrisfera (Italia)", technical meeting organized by the University of Bologna in collaboration with the Comunidad de Regantes de Carrizales and the Instituto Valenciano de Investigaciones Agrarias (IVIA):
Masina M., Calone R., Lambertini A., Speranza M. "Primeras aplicaciones del sistema Smart Agrowetlands en el área experimental italiana del proyecto LIFE AGROWETLANDS II" (oral presentation).

Bologna, Italy, 9 May 2019: Third visit of the external monitoring team, LIFE AGROWETLANDS II project (LIFE15 ENV/IT/000423):
Masina M., Lamberti A., Daprà I., Mazzotti C. "Modeling water management with SMART AGROWETLAND" (oral presentation).

Bologna, Italy, 18 April 2018: Second visit of the external monitoring team, LIFE AGROWETLANDS II project (LIFE15 ENV/IT/000423):
Masina M., Lamberti A., Daprà I. "La falda freatica nell'area" (oral presentation).
Masina M., Calone R., Barbanti L., Lamberti A. "Modellazione dello sviluppo colturale e della resa per sorgo e mais" (oral presentation).

	Bologna, Italy, 7 March 2017: First visit of the external monitoring team, LIFE AGROWETLANDS II project (LIFE15 ENV/IT/000423): Masina M., Daprà I. "Flussi in falda e modellazione" (oral presentation). Masina M. "Modellazione dei fabbisogni d'acqua in relazione alla salinità" (oral presentation). Bologna, Italy, 22 September 2016: "Kick-off meeting" of the LIFE AGROWETLANDS II project (LIFE15 ENV/IT/000423), organized by the University of Bologna: Lamberti A., Daprà I., Masina M. "Modellazione numerica del flusso delle acque sotterranee e dell'intrusione salina (B1.2 Action)" (oral presentation). Ferrara, Italy, 24-25 January 2013, Workshop "La ricerca scientifica italiana nel campo dell'idraulica: presentazione dei risultati dei progetti PRIN 2008" (Italian scientific research in the field of hydraulics: presentation of the results of the PRIN 2008 projects), organized by the University of Ferrara and Gruppo Italiano di Idraulica. Presentation of the results obtained from the PRIN 2008YNPNT9 project: Lamberti A., Blondeaux P., Foti E., Mancinelli A., Carniel S. "Strumenti per la valutazione della vulnerabilità delle aree costiere in relazione ai previsti cambiamenti climatici" (oral presentation). Venice, Italy, 31 May 2012: PRIN Project Final Workshop "Tools for the assessment of coastal zone vulnerability related to the foreseen climate changes", organized by CNR-ISMAR Venice: Lamberti A., Archetti R., Masina M., Gaeta M. G. "Flooding hazard in the Romagna coast based on copula approach" (oral presentation).
Membership	Enrolled since 28/07/2008 in the Professional Register of Engineers of Ferrara Province, Section A – civil and environmental, industrial and information sectors, n. 1885.
Honours and awards	Member of the research group proposing the project "Analisi multiscala sulla sostenibilità idrica dell'interazione fra società e ambiente" (Multiscale analysis of water sustainability in the interaction between society and environment), admitted to funding (20˙000 euros) on October 31, 2017 under the ALMA IDEA 2017 Grant Junior call at Alma Mater Studiorum - University of Bologna. Proposing research group: Ciriello Valentina (principal investigator), Beccari Carolina Vittoria, Felisa Giada, Lauriola Ilaria, Masina Marinella, Mazzoni Davide. On December 2015, the publication with doi 10.1016/j.coastaleng.2014.12.010 of Masina M., Lamberti A. and Archetti R. was highlighted by the judging committee of the "DICAM Best Paper Award 2015" of the University of Bologna among the scientific contributions of innovative and wide-ranging character (https://dicam.unibo.it/it/dipartimento/premi-e-riconoscimenti/dicam-best-paper-awards/best-paper-award-dicam-2015). Certificate of Recognition awarded by the Municipal Administration of Masi Torello on July 24, 2008 for the Master degree obtained in the 2007 academic year. "Francesco Viviani" Recognition awarded on April 21, 1994 by the Chamber of Commerce, Industry, Crafts and Agriculture of Ferrara for achieving the high school diploma with full marks in the 1992/93 school year.

La sottoscritta Marinella Masina, ai sensi e per gli effetti degli articoli 46 e 47 del D.P.R. n. 445/2000, dichiara che tutte le informazioni riportate nel presente curriculum vitae corrispondono al vero.

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

March 2025