

PERSONAL INFORMATION

Giovanni Besio



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 Sex Male | Date of birth 18/06/1976 | Nationality Italian

WORK EXPERIENCE

From February 2015 to Today

**Associate Professor in Coastal and Harbour Engineering**

Polytechnic School, University of Genoa, Italy, [www.politecnica.unige.it](http://www.politecnica.unige.it)

- Full Professor of “Maritime Engineering”, “Coastal Structures” and “Harbour Engineering” for the Civil and Environmental Engineering degree (BSc and MSc careers)

**Business or sector** Research and education

From November 2005 to February 2015

**Assistant Professor in Coastal Engineering**

Polytechnic School, University of Genoa, Italy, [www.politecnica.unige.it](http://www.politecnica.unige.it)

- Full Professor of “Maritime Engineering”, “Coastal Structures” and “Environmental Fluid Mechanics” for the Civil and Environmental Engineering degree (BSc and MSc careers)

**Business or sector** Research and education

From October 2004 to November 2005

**Post Doc – Research Fellow**

Centro Andaluz de Medio Ambiente (CEAM), Granada, Spain, <http://www.iista.es/>

- Junior Scientist in Coastal Engineering and Coastal Morphodynamics

**Business or sector** Research

From January 2004 to September 2004

**Research Fellow**

DIAM (now DICCA), University of Genoa, Italy

- Researcher in Environmental Fluid Mechanics

**Business or sector** Research

From January 2001 to December 2003

**PhD Grant**

DIAM (now DICCA), University of Genoa, Italy

- PhD in Environmental Fluid Mechanics

**Business or sector** Research

From December 1999 to May 2000

**Junior Engineer**

STI, Studio Tecnico di Ingegneria, Genova, Italy

- Junior Engineer for Civil and Hydraulic works

**Business or sector** Civil Engineering Consultancy

EDUCATION AND TRAINING

From January 2001 to December 2003

**PhD in Environmental Fluid Mechanics**

Level 8

DIAM (now DICCA), University of Genoa, Italy

- Fluid Mechanics, Morphodynamics, Turbulence

From September 1994 to  
November 1999

**MSc in Civil Engineering with Hydraulics**

Level 7

University of Genoa, Italy

- Civil Engineering, Fluvial and Coastal Hydraulics

**PERSONAL SKILLS**

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	C1	C1	C1	C1	C1
French	B2	B1	A1	A2	A1

Communication skills Good communication skills developed either teaching different courses and giving talks at international conferences

Organisational / managerial skills Leadership and tutoring (PhD and Master students)

Job-related skills Innovation and development for basic research and applied research (knowledge transfer to industry)

Digital skills

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

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Skills in programming languages (Fortran, Matlab, Python, shell scripting), GIS tools (QGIS, Grass, ArcGIS)

Other skills Manual abilities for laboratory works (steel and wood carpentry, PVC and similar materials handling)

Driving licence A and B

**ADDITIONAL INFORMATION**

Referee Activity

Editor for Advances in Sea State Modelling and Climate Change Impacts, Frontiers  
 Review Editor for Coastal and Offshore Engineering section of Frontiers in Built Environment  
 Review Editor for Coastal Ocean Processes section of Frontiers in Marine Science  
 Guest Associate Editor for Applied Ocean Research  
 Guest Associate Editor for Physical Oceanography section of Frontiers  
 Guest Associate Editor for Ocean Engineering  
 Editorial Board Member for Journal of Marine Science and Engineering, MDPI

ANVUR – VQR 2010-2014

Engineering and Physical Sciences Research Council (EPSRC - UK)

Future in Research (Regione Puglia)

MIUR – PRIN Projects

MSCA Bienvenue

National Science Foundation (NSF)



Advances in Water Resources

Applied Energy

Atmosphere

Coastal Engineering

Continental Shelf Research

Earth-Science Review

Earth Surface Processes and Landforms

Ecological Indicators

Energies

Energy

Engineering Applications of Artificial Intelligence

Environment International

Environment, Development and Sustainability

Environmental Modelling and Software

Estuarine, Coastal and Shelf Science

European Journal of Mechanics B/Fluid

Frontiers in Marine Science

Geophysical Research Letters

IAHR - International Association of Hydro-Environment Engineering and Research

International Journal of Marine Energy

Journal of Cleaner Production

Journal of Fluid Mechanics

Journal of Geophysical Research

Journal of Marine Science and Engineering

Journal of Waterway, Port, Coastal and Ocean Engineering

Meccanica

Natural Hazard and Earth System Science

Natural Resource Research

Ocean Dynamics

Ocean Engineering

Ocean Modelling

Physics of Fluids

Progress in Oceanography

Regional Environmental Change

Science of the Total Environment

Scientific Reports

Water Resources Research

Water

**Affiliations** American Geophysical Union (AGU)  
European Mechanic Society (EUROMECH)  
Permanent International Association of Navigation Congresses (PIANC)  
Associazione Ingegneria Offshore e Marina (AIOM)

**Institutional Activities**

Member of the Scientific Committee of the Centro del Mare, University of Genoa, 2019 – ongoing

Coordinator of the PhD Curriculum in Engineering for Marine and Coastal Environments belonging to the PhD in Sea Science and Technology, University of Genoa, 2019 – ongoing

Member of the Committee for the PhD in Civil, Chemical and Environmental Engng, University of Genoa, 2005-2018

Member of the Teaching Committee for the MSc in Civil Engineering, University of Genoa, 2023-ongoing

Member of the AquaClew Project (ERA-NET ERA4CS) External Expert Committee - 2020

Member of the Committee for the draft of ROM1.1 guideline (Ministry of Development, Spain, 2018)

Expert member for fluvial and coastal hydraulics in the Regional Technical Committee for the Environmental Management (Regione Liguria, 2014-2017)

Committee Member for Public Works Tendering processes for Spezia and Genoa Harbour (Quay Walls Design, Marinas Design, Geomatic Surveys, Road Design Services, Project Management of Harbor Works; Shipyard Works)

Technical Consultant for the Genoa Court (Harbour Planning and Safety, Coastal Structures Damages, 2016-2021)

Technical Consultant for TAR Liguria (Coastal Zone Management, 2015)

Technical Consultant for the Public Waters Court of Rome (River Engineering and Managing, 2007)

Reference Person for Research Joint Program UniGe-Regione Liguria, 2016-ongoing

Member of the PIANC-Universities working group, 2017-today

Referee for the PhD Degrees:

- Civil Engineering, University of Nottingham, United Kingdom
- Geophysics, University of Auckland, New Zealand
- Department of Infrastructure Engineering, University of Melbourne, Australia
- Ingegneria de los Fluidos Aplicada, Universidad de la Republica, Montevideo, Uruguay
- Territorio, Infraestructuras y Medio Ambiente, Universidad de Castilla la Mancha, Spain
- Civil Engineering, Universidad de Granada, Spain
- Earth Science, University of Pisa, Italy
- Environmental and Building Risk and Development, Environmental and Natural Resources, Polytechnic of Bari, Italy
- Civil and Environmental Engineering, University of Florence, Italy
- Fenomeni e rischi ambientali, University Parthenope, Naples, Italy

Teaching  
 Master and PhD Courses

2010/12/13/14/21/23	Classes on “Mixing Processes in Fluids” for the PhD program in Civil, Chemical and Environmental Engineering and in Marine Science and Technologies, University of Genoa, Genoa, Italy
2019	Classes on “Wave Modelling” for the IV International Summer School on Dynamics of Estuarine and Nearshore Systems, Granada, Spain
2018	Classes on “Wave Energy Converter Design” for the International Workshop in “Offshore Renewable and Aquaculture” ESITC Caen, France
2014, 2015	Classes on “Forecast models for ocean waves” for the “FORTEMARE – System Engineering for Maritime Technologies”, DLTM, MIUR & Regione Liguria, and DITEN, University of Genoa, Italy
2010/12/13/14	Classes on “Perturbation Methods” for the Doctorate in Fluid Mechanics and Environmental Processes, University of Genoa, Genoa, Italy
June 2012	Classes on “Submarine Dunes” at the Summer School “Morphological instabilities in natural systems”, Institut de Physique de Rennes, Universite de Rennes 1, Rennes, France
November 2011	Classes on “Hidrodinamica zona de rompientes” for the Curso Avanzado de Ingenieria de Costas y Puertos, Colegio de Ingegneros de Andalucia, Sevilla, Spain
2009, 2017	Classes on “Harbour Engineering” for the Master in Marine Geomatics, II Ed., University of Genoa and Istituto Idrografico della Marina
June 2009	Classes for the course “Fluid Mechanics” for the Doctorate in Fluid Mechanics and Environmental Processes, University of Genoa, Genoa, Italy
2007/2008/2010	Classes on “Wave averaged models” for the course “Sea Waves” for the Doctorate in Water, Material and Earth Engineering for Environment, Polytechnic University of Marche, Ancona, Italy
June 2007	Supervisor for the Summer School “Hydro and Morphodynamics of Coastal Seas”, Motril, Spain. Organized by Utrecht University, Universidad de Granada and Università di Genova.
Apr – May 2005	Classes on “Coastal Circulation” and “Analysis of Coastal Processes” within the master program “Sistemazione Idrogeologica e Riqualficazione Ambientale” organized by Regione Liguria.
May 2004	Practical lessons for the course “Elementi di base dell'idraulica applicata allo studio dei corsi d'acqua” carried out for the La Spezia Province by the Department of Environmental Engineering, University of Genoa, Genoa, Italy

Teaching  
Degree Courses

A.A. 2023/24	Professor for “Water and Wind for Clean Energy” – MSc Environmental Engineering - University of Genoa
A.A. 2016/17-23/24	Full professor for “Harbour Engineering”, Civil Engineering – University of Genoa
A.A. 2012/13-23/24	Full professor for “Coastal Engineering”, Civil Engineering – University of Genoa
A.A. 2018/19-22/23	Professor for “Renewable Energy Production”, Environmental Engineering – University of Genoa
A.A. 2012/13-17/18	Full professor for “Maritime Engineering”, Civil Engineering – University of Genoa
A.A. 2010/11-11/12	Full professor for “Environmental Hydraulics”, Civil Engineering – University of Genoa
A.A. 2011/12	Assistant professor for “Coastal Engineering”, Civil Engineering – University of Genoa
A.A. 2010/11	Assistant professor for “Coastal Engineering”, Civil Engineering – University of Genoa
A.A. 2009/10	Assistant professor for “Maritime Hydraulics”, Civil Engineering – University of Genoa
A.A. 2009/10	Assistant professor for “Hydraulics I”, Civil Engineering – University of Genoa
A.A. 2008/09	Assistant professor for “Port Engineering” and “Coastal Engineering”, Civil Engineering – University of Genoa
A.A. 2007/08, 06/07	Full professor for “Fluid Mechanics I”, Mechanical Engineering – University of Genoa - Polo di La Spezia
A.A. 01/02 – 08/09	Assistant professor for “Hydrodynamics I” for the Naval Architecture and Marine Engineering Degree - University of Genoa

Teaching  
PhD Students

2011-2015	Sonia Angiolani (actual position: high school teacher)
2012-2016	Lorenzo Mentaschi (actual position: RTD-A GEO/12 UniBO)
2013 – 2017	Francesco Enrile (actual position: engineer at Acquadotti Loano)
2016 – 2020	Francesco De Leo (actual position: RTD-A ICAR/02 UniGE)
2018 – 2022	Giulia Cremonini (actual position: Research Officer at TICASS)
2019 – 2023	Stefania Magrì (actual position: officer at ARPAL)
2020 – 2024	Manuel Corrales Gonzales (actual position: Post Doc at UNIGE)
2022 – ongoing	Filippo Giaroli
2022 – ongoing	Mattia Scovenna
2023 – ongoing	Beatrice Maddalena Scotto (funded by ETT)
2023 – ongoing	Vallabh Arambure
2023 – ongoing	Federico Baronetti
2023 – ongoing	Brunella Guida (funded by ENEA)
2024 – ongoing	Giovanni Salomone (funded by Marina Militare)

Teaching	2013 - 2015	Ludovica Sartini (actual position: Metocean division at RINA)
Post Doc Students	2013 - 2015	Saeed Hariri (actual position: researcher at Leibniz-Institut für Ostseeforschung Warnemünde)
	2018 - 2020	Francesco Enrile (actual position: engineer at Acquedotti Loano)
	2018 – 2023	Francesco Ferrari (actual position: RTD-A Uni Genova)
	2020 – 2023	Andrea Lira Loarca (actual position: RTD-A Uni Genova)
	2020 – 2023	Mohamad Daliri (actual position researcher at NIOZ)
	2020 – 2022	Alejandro Caceres (actual position: Researcher Uni Toulon)
	2021 – 2022	Francesco De Leo (actual position: RTD-A Uni Genova)
	2022 – 2023	Paula Nunez Perez (Visiting form IH Cantabria - funded by Margarita Salas Grant)
	2022 – 2022	Emiliano Gorr Pozzi (Visiting from Universidad Baja California)
	2023	Tim Tooney (Visiting from IMEDEA, Universidad de las Baleares)
	2023 – 2023	Marta Aragon (Visiting from ETSICCP, Universidad de Granada – Visitng during the PhD)
	2023 – ongoing	Manuel Corrales Gonzales
	2023 – ongoing	Danilo Lisboa
Teaching	2022	Amaury Zach, Rose Beranger – University of Toulon
Internships	2023	Lisa Fontanelle, Justine Louis, Paul Khederchah– University of Toulon

- Invited Seminars**
- “L'utilizzo della modellistica meteo-marina per lo studio della risorsa” RSE Academy – energia Elettrica dal Mare, 15 dicembre 2021
  - “Ocean Renewable Energy Assessment and Future Projections: approach and application in the Mediterranean Sea” IIWER Webinar #4, <https://www.youtube.com/watch?v=8gSFL0Ejz28>
  - “Wave Modeling in the Mediterranean Sea: hindcast, forecast and climate projection for engineering applications” REMTECHExpo, Ferrara, Italy, September 2019
  - “Wave modeling and its applications” Universidad de La Republica, Montevideo, Uruguay, July 2018
  - “Modellistica meteo-marina: lo stato dell'arte per il bacino del Mediterraneo” Workshop La simulazione ambientale in ambito marino, ATENA, May 2017
  - “Stima del potenziale energetico del moto ondoso all'interno del bacino del Mediterraneo” Workshop Energia dal Mare, Onde e Correnti, ATENA, September 2016
  - “Modellistica di reanalisi per la stima degli eventi estremi” Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Salerno, October 2016
  - “Stima del potenziale energetico del moto ondoso all'interno del bacino del Mediterraneo” ATENA Meeting, La Spezia, September 2016
  - “Numerical Modelling for Environmental needs @ UniGe” ARC Meeting, Toulon, France, April 2016
  - “La modellistica previsionale del moto ondoso ai fini dell'ingegneria offshore e costiera” Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Palermo, November 2014
  - “Sea-weather modeling and engineering applications” CoastEsonda, Ferrara, September 2014
  - “Operational high resolution meteo marine modelling over the Mediterranean area: tailoring WWIII model for the Mediterranean basin and development of prompt coastal risk index” DeSRAAP Workshop, NATO-CMRE, La Spezia, July 2014
  - “Strutture Lagrangiane Coerenti e barriere al trasporto: applicazione al Golfo di Trieste” Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Bologna, November 2013
  - “Lagrangian mixing and LCS as barrier to transport in compound channels” CNR-ISMAR, U.O. Pozzuolo di Lerici (SP), Italy, January 2013
  - “Wetlands, fragile ecosystems at risk. The case of Venice lagoon” GCCRP, Griffith University, Queensland, Australia, November 2012
  - “Wetlands, fragile ecosystems at risk. The case of Venice lagoon” GCCRP, Southern Cross University, LismoreNew South Wales, Australia, November 2012
  - “Lagrangian Coherent Structures as barrier to transport” IH Cantabria, Universidad de Cantabria, Santander, Spain, November 2011
  - “Modelli per l'analisi della qualità delle acque costiere e dei bacini” Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Lecce, Italy, July 2011
  - “Tidal generated Sand Waves” GIOC, Universidad de Cantabria, Santander, Spain, June 2005
- Education**
- 2004: PhD grant at the University of Genoa in the field “Fluodynamics and Environmental Engineering Processes”. PhD Thesis title: “Modelling of tidally generated large scale bedforms”
  - 1999: 18/11/1999 *Laurea* - Master degree in Civil Engineering in Hydraulics at the University of Genoa. Thesis: “River bifurcation stability: theoretical analysis and experimental observations”. Score: 110 cum laude/110
  - 1994: Classical high school degree at the C. Columbus Liceum, Genoa



**Post Graduate Courses**

- November 2014: *"Time-frequency analysis: a glance beyond Fourier region"* Prof. L. Carassale - DICCA, Università di Genova.
- November 2009: *"Non-linear dynamical systems"* Prof. M. Storace - DIBE, University of Genoa.
- February 2009: *"Advanced numerical methods for hyperbolic equations and applications"* Prof. E. Toro. Organizzato dall'Università di Trento.
- October 2007: *"Communication Skills Training Workshop"* - Education Training Ltd (University of Edinburgh). Marie Curie EST Centre – DICAT Univ. of Genoa.
- July 2003: *"Hydro and Morphodynamics of coastal seas"* – Renesse, Netherlands. Organized by Utrecht University and Universitat Politècnica de Catalunya.
- Apr - Jun 2003: *"Problematiche della cooperazione internazionale e le progettualità applicabili"* organized by Ingegneria Senza Frontiere - Genova.
- October 2002: *"Water Waves for Engineers"* by Prof. M. Brocchini (University of Genoa) and Dr. M. Landrini (INSEAN).
- May 2002: *"Le tecnologie appropriate per la cooperazione e lo sviluppo sostenibile: il ruolo dell'università"* organized by CETAMB (Brescia).
- January 2000: *"La progettazione strutturale con gli Eurocodici"*.

**Projects**

YEAR	TITLE	PARTNER
2023	Future navigation condition in the Med and North Sea	Weather, Water and Sand
2023	Water intake and outlet for FSRU unit 2 in Ravenna	TECHINT
2023	Water intake and outlet for FSRU unit in Mar Ligure	TECHFEM
2023	Water intake and outlet for FSRU unit as built in Piombino	T.EN
2023	Water intake and outlet for FSRU unit in Ravenna layout single	TECHFEM
2023	Brine dispersion simulations	Milano Multiphysics
2023	Water intake and outlet for FSRU unit in Vado, integration for Regione	TECHFEM
2022	Water intake and outlet for FSRU unit in Piombino	DISTAV/SNAM
2022	Water intake and outlet for FSRU unit in Porto-Torres	DISTAV/SNAM
2022	Wave climate characterization in Red Sea	Longitude
2022	Water intake and outlet for FSRU unit Offshore Ravenna	TECHINT
2022	Water intake and outlet for FSRU unit in Porto Torres - Phase 2	RINA
2022	Water intake and outlet for FSRU unit in Piombino New Darsena	TECHNIP
2022	Water intake and outlet for FSRU unit in Piombino OLT2	SAIPEM
2022	Water intake and outlet for FSRU unit in Ravenna Breakwater	TECHINT
2022	Sediment dumping and dispersion for Panigaglia	SHELTER
2022	Sediment dumping and dispersion for Porto Vesme + correction	SHELTER
2022	Wave climate characterization in Red Sea	Longitude
2022	Wave climate characterization offshore Imperia coast	Geoscape
2022	Porto Palermo natural capital evaluation	CELIM
2021	Wave climate characterization offshore Imperia coast	HS Marine
2021	Wave climate characterization offshore Sicily	Technital
2021	Harbour oscillation analysis	Cala del Forte
2021	Wave climate for Italy	Polimi
2021	Wave Extreme Value Analysis and Run-Up estimation for Med Sea Coast	Plan Bleu
2021	Dispersion of fine sediment due to piling activities	DISTAV/SNAM
2021	Wave hindcast data offshore Ventimiglia harbour	Cala del Forte
2021	Wave climate characterization offshore Cyprus	DNV GL Italy
2021	Support activity for shore protection design	Comune di Alassio

Projects

YEAR	TITLE	PARTNER
2021	Analysis of breakwater projects for Baia del Silenzio	Comune di Sestri Levante
2021	Narta Lagoon monitoring and analysis	CELIM
2021	Water intake and outlet for FSRU unit in Porto Vesme	DISTAV/SNAM
2021	Wave climate characterization offshore Imperia coast	Geoscape
2021	Wave climate characterization offshore Genoa Harbour	Geoquip
2021	Wave climate characterization offshore Genoa Harbour	Technital
2021	Water intake and outlet for FSRU unit in Porto Torres	DISTAV/SNAM
2021	Dispersion of fine sediment due to piling activities - ph2	DISTAV/SNAM
2021	SINBAD2 IPR	PmTen
2021	SINBAD2 IPR	Xedum
2020	Wave climate characterization in the Suez Channel	Longitude
2020	Wave climate characterization offshore Imperia coast	HS Marine
2020	Wave climate characterization offshore Alassio coast	ATI Gaggero
2020	Wave climate characterization offshore Termoli coast	Ing. Russo
2020	Containers' drift in the Southern Pacific Ocean	Longitude
2020	Wave Hazard Index	ARPAL
2020	Wave climate characterization in the Suez Channel	Longitude
2019	Meteocean condition for Palermo coast	AdSPMSO
2019	Meteocean condition for Tigullio Gulf	AquaTecno
2019	Wave climate characterization offshore of Livorno harbor	HS Marine
2019	Wave climate characterization offshore of Fiumicino	RINA
2019	SINBAD IPR	Xedum
2019	SINBAD IPR	PmTen
2019	Wave climate characterization offshore La Spezia harbour	Modimar
2019	Wave climate characterization offshore Savona	APM Terminal
2019	Wave climate characterization offshore Golfo Aranci	Società Generali Appalti
2019	Wave climate characterization for Red Sea	RINA
2019	Wave data for UniCal project	UniCal
2019	Wave climate characterization for Suez Channel	RINA
2019	Wave climate characterization offshore of Cetraro	HS Marine
2019	Study of coastal circulation and folding in Baia del Silenzio	Comune di Sestri Levante
2019	Wave climate characterization offshore Naples harbour	Modimar
2019	Wave spectral climate characterization offshore of Malta Coast	RINA
2019	Wave climate offshore the coast of Sicilia	Studio Longanesi
2019	Wave climate offshore the coast of Porto Empedocle	HS-Marine
2019	Wave climate offshore the coast of Lazio	La Sapienza
2019	Wave climate offshore the coast of Andora	HS Marine
2019	EVA Analysis worldwide	Milano Multiphysics
2018	Meteocean condition for Piombino harbour	CMC
2018	Wave climate characterization offshore of Livorno harbor	Modimar
2018	Meteocean conditions in the Canale di Corsica	Interprogetti
2018	Meteocean condition for Algerian Coast	Technital
2018	Meteocean condition for Golfo di Follonica	AdSPMTS

Projects

YEAR	TITLE	PARTNER
2018	Wave climate characterization in the Malta Channel	PhO
2017	Morphodynamics of Romanian coast	Dinamica
2017	Wave Tank Experiment for Absorbing Caissons	RINA
2017	Wave Extreme Value Analysis and Run-Up estimation for RAMOGE area	Plan Bleu
2017	Integrazione parere Pro-Veritate	Studio Munari
2017	Wave climate characterization offshore of Civitavecchia harbor	Modimar
2017	Wave climate characterization offshore of Ionic Coast of Sicily harbor	CADA-Modimar
2017	Wave climate characterization offshore of Genoa harbor	D'Apollonia
2017	Wave climate characterization offshore of Pescara harbor	ARAP Abruzzo
2017	Wave climate characterization offshore of Eolie islands	H.S. Marine
2017	Wave climate characterization offshore of Abruzzo Coast	Regione Abruzzo
2016	Wave climate characterization offshore of Alexandria Egypt	NMDC Abu-Dhabi
2016	Wave climate characterization offshore of Duqm	NMDC Abu-Dhabi
2016	Wave climate characterization offshore of Berbera]	NMDC Abu-Dhabi
2016	Wave climate analysis in the Gulf of La Spezia	AP-Spezia
2016	Parere Pro Veritate water quality Vado	Studio Munari
2016	Wave climate characterization offshore of Civitavecchia Harbour	Prof. Ruol
2015	Wave climate characterization offshore of Eritrea coast	NMDC Abu-Dhabi
2015	Wave climate characterization offshore of Montenegro coast	Hydrosoil s.r.l.
2015	Wave climate characterization offshore of Messina coast	COEDMAR
2014	Wave climate characterization offshore of Albania coast	Piacentini
2014	Fast Ferry wave generation and propagation on Isola d'Elba coast	Corsica Ferries
2013	Offshore Mar Ligure wave climate	Studio Legale Farina
2012	Study of the effects of a thermal plume from an FSRU Unit	DEAM
2012	Operational wave forecasting in the Ligurian Sea	ARPAL
2012	Physical modelling of Vernazzola beach profile	Comune di Genova
2011	Physical modelling of OWCM performances	Risorse Ambiente
2011	Physical modelling for risk analysis of asbestos release during slurry dumping	SPEA

Awards

July 2018: Visiting Grant, IMFIA, Universidad de La Republica, Montevideo, Uruguay  
 December 2014: Trasporti & Cultura Award (Sec. A) for the book "Ingegneria e Paesaggio. Un progetto per le valli e per le coste"  
 October 2012: GCCRP visiting fellow, Griffith University, Australia  
 September 2011: Best Presentation Award, RCEM Conference, Beijing, China  
 June 2004: CARIGE grant for research activities

Research Funding

TITLE	FINANCED BY	PERIOD	ROLE
Towards an early warning system on coastal hazards for the Uruguayan Coast	Agencia Nacional de Investigacion y Innovacion	2023-2025	Collaborator

Research  
Funding

TITLE	FINANCED BY	PERIOD	ROLE
Atlante del Mare	UE 508/2020 FEAMP 2014_2020	2023	Collaborator
RAISE - Robotics and AI for Socio-economic Empowerment	MUR	2023-2025	Spoke-Project Coordinator
RETURN - multi-Risk sciEnce for resilienT commUnities undeR a changiNg climate	MUR	2023-2025	Spoke-WP Coordinator
PROMPT - PReparedness for Operational Monitoring and Prediction of contaminant Transport in the Sea	UCPM-2022-PP	2023-2024	P.I.
SPLASH & CO – Stop alle plastiche in H2O ai tempi del COVID	Interreg - Marittimo European Union	2022-2027	UniGE Coord
ISYPORT - Sistema integrato per la mitigazione dei rischi della navigazione in aree portuali	Interreg - Marittimo European Union	2022-2023	Collaborator
BE-READY - Rapid Environmental Assessment Decision sYstem	PON	2021-2023	P.I.
SINAPSI - asSistenza alla Navigazione per l'Accesso ai Porti in Scurezza	UCPM-2022-PP	2020-2022	P.I.
SINBAD2 – Sicurezza della navigazione da diporto	Interreg - Marittimo European Union	2019-2022	Collaborator
SINBAD – Sicurezza della navigazione da diporto	POR-FESR Liguria 2014-2020	2018-2020	P.I.
SICOMAR+ - Sistema transfrontaliero per la sicurezza in mare COntro i rischi della navigazione e per la salvaguardia dell'ambiente MARino	Interreg - Marittimo European Union	2018-2022	P.I.
GEREMIA - Gestione dei reflui per il miglioramento delle acque portuali	Interreg - Marittimo European Union	2018-2021	P.I.
SPLASH! – Stop alle plastiche in H2O!	Interreg - Marittimo European Union	2018-2021	P.I.
RISQ'EAU – Increasing flood resilience of Alcotra territories	Interreg – Alcotra European Union	2017-2019	Collaborator
MAREGOT - MAnagement des Risques de l'Erosion cotière et actions de GOuvernance Transfrontalière	Interreg - Marittimo European Union	2017-2019	Collaborator
ICODEP - Impact of Changing fOreshore on flood DEfence Performance	Hydralab+ European Union	2016	Collaborator
Subgrid obstacle modeling in wave propagation	University of Genoa	2014	P.I.
Monitoring boat anchoring pressure on Posidonia oceanica meadows through satellite SAR imagery	ESA	2013	Collaborator
PO CRO FSE 2007/13	Regione Liguria	2013-2014	P.I.
AMSEDIS - Amplified Growth of Sediment Waves in the Irish Sea	EuroFleet European Union	2011	Collaborator
Studio dei processi Lagrangiani di mescolamento dovuti a strutture vorticosi di grande scala su acqua bassa	University of Genoa	2010	Coordinator
Effetto della presenza di Parchi Eolici offshore sulla morfodinamica costiera	MIUR, IT-ES Actions	2009	Collaborator
Strumenti per la valutazione della vulnerabilità delle aree costiere in relazione ai previsti cambiamenti climatici	MIUR	2008	Collaborator
Modellazione numerica di processi morfodinamici	MIUR	2007	Collaborator

Research  
Funding

TITLE	FINANCED BY	PERIOD	ROLE
Dinamica di forme di fondo di grande dimensioni e ampiezza finita	University of Genoa	2006	Collaborator
Cave sottomarine e ripascimenti: modellazione morfologica e applicazioni	MIUR	2005	Collaborator
MODITE - Modelli di trasporto per difesa del territorio	Fondazione CariVerona	2005	Collaborator
SANDPIT - Sand Transport and Morphology of Offshore Sand Mining Pits/Areas	European Union	2002-2005	Collaborator
HUMOR - Human interaction with large scale coastal morphological evolution	European Union	2001-2004	Collaborator
Modellazione matematica e fisica di processi di sedimentazione nella laguna di Venezia	Corila	2004	Collaborator

## ANNEXES

International Peer  
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79. De Leo, F., Cremonini, G., Corrales-Gonzalez, M. and Besio, G. 2023 Climate analysis of wave systems for multimodal sea states in theMediterranean Sea. *Applied Ocean Research*. 142, <https://doi.org/10.1016/j.apor.2023.103813>
78. Caloiero, T., Aristodemo, F., Lira Loarca, A. and Besio, G. 2024 Detection and quantification of wave trends in the Mediterranean basin. *Dynamics of Atmospheres and Oceans*, 105, <https://doi.org/10.1016/j.dynatmoce.2023.101413>
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69. Caceres-Euse, A., Molcard, A., Bourg, N., Dumas, D., Guerin, C. & Besio, G. 2022 Breakdown of near-surface sea current from high-frequency radar data. *Journal of Atmospheric and Oceanic Technology*, 39, 12, 1927-1942, <https://doi.org/10.1175/JTECH-D-22-0013.1>
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63. Porcile, G., Enrile, F., Besio, G. & Bolla Pittaluga, M. 2022 Hydrostatic vs. Non-Hydrostatic Modelling of Density Currents Developing Two Dimensionally on Steep and Mild Slopes. *Applied Ocean*

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78. Scovenna, M., De Leo, F. and Besio, G. 2023 Hydrodynamic Characterization of Narta Lagoon, Albania. In Proceedings of SCACR. Istanbul, Turkey
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