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Web of Science ResearcherID: AAE-1664-2021  
Scopus ID: 57195539800

Sex: M – Date of birth: 04/12/1989

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## TITLES E WORK EXPERIENCE

*20/11/2023*

Abilitazione Scientifica Nazionale for the role of Associate Professor (fascia II)  
Scientific sector 08/A1 – Hydraulics, Hydrology, Hydraulic and Maritime Constructions

*06/04/2020*

Ph.D. in Civil, Chemical, and Environmental Engineering  
University of Genoa  
Department of Civil, Chemical and Environmental Engineering (DICCA)  
Curriculum: Fluid Dynamics and Environmental Engineering  
Thesis: New methodologies for the characterization of extreme sea states:  
applications in the Mediterranean Sea

*01/03/2016 – 31/08/2018*

Research period at Universidad de la República Oriental de Uruguay  
Istituto de Mecánica de los Fluidos e Ingeniería Ambiental  
Montevideo (UY)

*20/07/2017*

Registration with the Order of Engineers of Genoa  
Registration number: 10543  
Section A

*19/09/2016*

Qualification for serving as Civil and Environmental Engineer  
University of Modena and Reggio Emilia

*30/03/2016*

Master's Degree in Environmental & Landscape Engineering (LM-35)  
University of Trento



Department of Civil, Environmental, and Mechanical Engineering  
Curriculum: Integrated environmental and territorial design in international cooperation contexts  
Thesis: Numerical modeling for shoreline evolution: an application to Lalzit Bay

22/03/2013

Bachelor's Degree in Civil and Environmental Engineering (L-7)  
University of Trento

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## ACADEMIC EXPERIENCE

01/10/2022 – ongoing

RTD-A fellow at DICCA

Research field: ocean waves – data modeling & analysis; maritime & coastal engineering; coastal morphodynamics; tidal hydraulics

SSD: CEAR-01/B

01/10/2021 – 30/09/2022

Post-Doc at DICCA

Research field: ocean waves – data modeling & analysis

SSD: ICAR/02

01/10/2020 – 30/09/2021

Post-Doc at the Civil and Environmental Engineering Department of California Polytechnic State University (San Luis Obispo, CA, US)

Research field: tidal hydraulics

SSD: ICAR/02

02/11/2019 – 30/09/2020

Post-Doc at DICCA

Research field: ocean waves – data modeling & analysis

SSD: ICAR/02

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## TEACHING ACTIVITIES

Personal web page: <https://rubrica.unige.it/personale/UkNOU19s>

A.Y. 2024/2025

Extreme Value Analysis of compound events for coastal engineers

DICCA

Course within the Ph.D. in Civil, Chemical, and Environmental Engineering (DICCA; XL cycle)

A.Y. 2023/2024; A.Y. 2024/2025

Costruzioni Marittime (ID: 66208) – co-teaching (15 hours)



DICCA

Master's Degree Program in Civil Engineering (LM-23)

<https://corsi.unige.it/off.f/2024/ins/81179>

A.Y. 2023/2024; A.Y. 2024/2025

Harbour Engineering (ID: 98239) – co-teaching (15 hours)

DICCA

Master's Degree Program in Environmental Engineering (LM-35)

<https://corsi.unige.it/en/off.f/2024/ins/81113>

A.Y. 2023/2024; A.Y. 2024/2025

Ocean Science and Engineering (ID: 101148) – co-teaching (30 hours)

University of Genoa

Department of Naval, Electrical, Electronic, and Telecommunications Engineering (DITEN)

Bachelor's Degree Program in Maritime Science & Technology (L-28)

<https://corsi.unige.it/en/off.f/2024/ins/78601>

A.Y. 2023/2024

Coastal Hydrography & Engineering

DITEN – Navy Hydrographic Institute

Master's Degree Program in Marine Geomatics for Hydrography

A.Y. 2018/2019; A.Y. 2019/2020; A.Y. 2022/2023

Costruzioni Marittime (cod. 66208) – supplementary teaching activity (8 hours)

DICCA

Master's Degree Program in Civil Engineering (LM-23)

A.Y. 2019/2020

Coastal Structures and Shore Protection (cod. 97237) – supplementary teaching activity (8 hours)

DICCA

Master's Degree Program in Environmental Engineering (LM-35)

<https://corsi.unige.it/en/off.f/2023/ins/69189>

P4 – AI & ROBOTICS 4 STUDENTS

Algoritmi di raggruppamento e selezione di stati meteo-marini significativi

Course delivered under the project RAISE – Robotics and AI for Socio-economic Empowerment

University of Genoa

<https://corsi.unige.it/off.f/2023/ins/73935>

Supervisor/co-supervisor of the following master's theses:

- Hydro-dynamic stability of an artificial reef (porous cement unit): experimental study & design. LM-23. A.Y. 2023/2024. Sophomore number: 4373250;



- Low-cost/High efficiency monitoring of coastal flooding and erosion: an application on the Sturla Beach. LM-35. A.Y. 2023/2024. Sophomore number: 4410595;
- Una analisi dei fenomeni di tracimazione in prossimità del porto di Genova. LM-23. A.Y. 2021/2022. Sophomore number: 4365824;
- Stima di trend futuri nel clima ondoso della riviera ligure. LM-35. A.Y. 2018/2019. Sophomore number: 3849057;
- Effetto dei cambiamenti climatici sull'analisi dell'affidabilità delle dighe a parete verticale. LM-23. A.Y. 2018/2019. Sophomore number: 4009085;
- Analisi di trend climatici del moto ondoso nel bacino del Mediterraneo. LM-35. A.Y. 2017/2018. Sophomore number: 3636075;
- Ottimizzazione idrodinamica di surfing-reef, caso studio per la costa ligure. LM-35. A.Y. 2016/2017. Sophomore number: 3533950;
- Dinamica del moto ondoso sotto costa: modellazione numerica vs misure radar-HF. LM-35. A.Y. 2016/2017. Sophomore number: 3658053;

Supervisor/co-supervisor of the following bachelor's theses:

- Reef artificiali per la mitigazione del rischio costiero nella spiaggia di Sturla (GE). L-7. A.Y. 2022/2023. Sophomore number: 4686606;

Co-supervisor of the following Ph.D. students:

- Enrico Moresco (Supervisor Prof. Nicoletta Tambroni). Ph.D. in Marine Science and Technology. Curriculum: Engineering for marine and coastal environments. XXXIX cycle (ongoing);
- Federico Baronetti (Supervisor: Prof. Giovanni Besio). Ph.D. in Civil, Chemical, and Environmental Engineering. Curriculum: Fluidodinamica e Ingegneria Ambientale. XXXIX cycle (ongoing);

Facility tutor for the following curricular internships:

- Year 2024. Sophomore number: 5334067;
- Year 2024. Sophomore number: 5334320;
- Year 2024. Sophomore number: 5333583;
- Year 2023. Sophomore number: 4410595.

Educational tutor for the following curricular internships:

- Year 2025. Sophomore number: 5688234;
- Year 2025. Sophomore number: 5654958;
- Year 2025. Sophomore number: 5674044.

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## CONFERENCES & OUTREACH

Conferences – organization:

- Member of the scientific committee for the 6<sup>th</sup> EVAN – Advances in Extreme Value Analysis and Application to Natural Hazards. Venice (IT), 16/07/2024 – 19/07/2024.



Conferences – talks:

- Analisi di dispersione nel Porto di Genova: modello idrodinamico e lagrangiano per gli scenari meteo-marini. Scovenna, M., (speaker), **De Leo, F.**, Besio, G. XXXIX Convegno nazionale di idraulica e costruzioni idrauliche. Parma (IT), 15/09/2024 – 18/09/2024;
- Variazioni del regime mareale nella Baia di Biscayne: una trattazione a modelli semplificati. Moresco, E. (speaker), Tambroni, N., **De Leo, F.** XXXIX Convegno nazionale di idraulica e costruzioni idrauliche. Parma (IT), 15/09/2024 – 18/09/2024;
- Analysis of directional wave systems and crossing seas in the Mediterranean Sea. **De Leo, F. (speaker)**, Corrales-Gonzalez, M., Cremonini, G., Besio, G. 38<sup>th</sup> International Conference on Coastal Engineering. Rome (IT), 08/09/2024 – 14/09/2024;
- Analyzing dispersion in the Port of Genova: hydrodynamic and lagrangian models for met-ocean scenarios. Scovenna, M. (speaker), **De Leo, F.**, Daliri, M., Besio, G. 38<sup>th</sup> International Conference on Coastal Engineering. Rome (IT), 08/09/2024 – 14/09/2024;
- Regional Frequency Analysis of extreme waves based on Regions of Influence in the Mediterranean Sea. **De Leo, F. (speaker)**, Solari, S. 6<sup>th</sup> EVAN – Advances in Extreme Value Analysis and Application to Natural Hazards. Venice (IT), 16/07/2024 – 19/07/2024;
- Numerical monitoring of oil spill scenarios in Augusta Harbour. Roman, F. (speaker), **De Leo, F.**, Cavallaro, L. 2023 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters, MetroSea 2023. La Valletta (Malta), 04/10/2023 – 06/10/2023;
- A top-down approach for the assessment of coastal inundation risk in the San Andrés Island (Caribbean Sea). **De Leo, F. (speaker)**, Caceres-Euse, A., Orfila, A. 10<sup>th</sup> SCACR – International Short Course and Conference on Applied Coastal Research. Istanbul (TR), 04/09/2023 – 06/09/2023;
- Hydrodynamic characterization of Narta lagoon. Scovenna, M. (speaker), **De Leo, F.**, Besio, G. 10<sup>th</sup> SCACR – International Short Course and Conference on Applied Coastal Research. Istanbul (TR), 04/09/2023 – 06/09/2023;
- The effect of harbor developments on high-tide flooding in Miami (FL). **De Leo, F. (speaker)**, Talke, S.A. 37<sup>th</sup> International Conference on Coastal Engineering. Sydney (AU), 04/12/2022 – 09/12/2022;
- Non-stationary extreme value analysis of sea states based on linear trends. Analysis of annual maxima series of significant wave height and peak period in the Mediterranean Sea. **De Leo, F. (speaker)**, Besio, G., Briganti, R. & Vanem, E. Studi di aggiornamento AIOM. Parma (IT), 20/10/2022 – 22/10/2022;
- Incremento del regime mareale nell'area portuale di Miami (FL). Cause ed effetti. **De Leo, F. (speaker)**, Talke, S.A. XXXVIII Convegno nazionale di idraulica e costruzioni idrauliche. Reggio Calabria (IT), 04/09/2022 – 07/09/2022;



- Trends in tidal range around the U.S. and potential implications for flooding occurrence. Talk. **De Leo, F. (speaker)**, Talke, S.A. EGU General Assembly (#vEGU21). Online talk, 19/04/2021 – 30/04/2021;
- Trends and variability of waves under scenario RCP8.5 in the Mediterranean Sea. Besio, G., Mentaschi, L., **De Leo, F. (speaker)**. 2<sup>nd</sup> International Workshop on Waves, Storm Surges and Coastal Hazard. Melbourne (AU), 10/11/2019 – 15/11/2019;
- Evaluation of HF-radar wave measures in the Gulf of Naples. **De Leo, F. (speaker)**, Besio, G., Saviano, S., Zambianchi, E., & Uttieri, M. 2019 IMEKO TC-19 International Workshop on Metrology for the Sea. Genoa (IT), 03/10/2019 – 05/10/2019;
- Extreme waves evaluation due to clustering techniques: an application in Mazara del Vallo (Sicily). **De Leo, F. (speaker)**, Solari, S., & Besio, G. 9<sup>th</sup> SCACR – International Short Course and Conference on Applied Coastal Research. Bari (IT), 09/09/2019 – 11/09/2019;
- Wave-induced kinematic of microplastics in the sea: mathematical model and practical examples. Talk. Stocchino, A., **De Leo, F. (speaker)**, & Besio, G. 9<sup>th</sup> SCACR – International Short Course and Conference on Applied Coastal Research. Bari (IT), 09/09/2019 – 11/09/2019;
- Coastal erosion triggered by political and socio-economical abrupt changes: the case of Lalzit Bay, Albania. Talk. **De Leo, F. (speaker)**, Besio, G., Zolezzi, G., Bezzi M., Lami, I., & Floqi, T. 35<sup>th</sup> International Conference on Coastal Engineering (ICCE). Antalya (TR), 17/11/2016 – 20/11/2016;
- New strategic wave measurement station off Naples port main breakwater. Centurioni, L., Braasch, L., Di Lauro, E., Contestabile, P., **De Leo, F. (speaker)**, Casotti, R., Franco, L., & Vicinanza, D. 35<sup>th</sup> International Conference on Coastal Engineering (ICCE). Antalya (TR), 17/11/2016 – 20/11/2016.

#### Conferences – posters:

- A multi-disciplinary approach for coastal morpho-dynamic assessment: application to the Lalzit Bay, Albania. Crivellaro, M., **De Leo, F.**, Cekrezi, B., Bajrami, F., Besio, G., Zolezzi, G. XXXIX Convegno nazionale di idraulica e costruzioni idrauliche. Parma (IT), 15/09/2024 – 18/09/2024;
- Wave modeling with unstructured mesh in the Mediterranean Sea. **De Leo, F.** 9<sup>th</sup> International Conference on Meteorology and Climatology of the Mediterranean. Genoa (IT), 22/05/2023 – 24/05/2023;
- Hydrodynamic and water quality modeling of Genoa Harbor. Daliri, M., Lira Loarca, A., Cremonini, G., **De Leo, F.**, Cutroneo, L., Reboa, A., Capello, M., Stocchino, A., & Besio, G. 37<sup>th</sup> International Conference on Coastal Engineering. Sydney (AU), 04/12/2022 – 09/12/2022;
- A new index for real time evaluation of coastal hazard. **De Leo, F.** 2<sup>nd</sup> International Workshop on Waves, Storm Surges and Coastal Hazard. Melbourne (AU), 10/11/2019 – 15/11/2019;



- On the selection of critical thresholds within the “POT” analysis. **De Leo, F., Besio, G.** XXXV Convegno nazionale di idraulica e costruzioni idrauliche. Ancona (IT), 12/09/2018 – 14/09/2018;
- Estimating a proper threshold within the POT approach: a simple and intuitive procedure. **De Leo, F., Besio, G.** EVAN – Extreme Value Analysis and application to Natural Hazard). Southampton (UK), 05/09/2017 – 07/09/2017.

#### Seminars:

- Problematiche legate a processi di erosione nella fascia costiera e negli ambiti portuali. Ordine dei Geologi della Liguria e Ordine degli Ingegneri delle Province di Imperia e Savona, 29/11/2024;
- Risultati della ricerca e della sperimentazione per la realizzazione di nuovi sistemi di difesa dall'erosione marina costiera ed in ambito portuale. Order of Engineers of Genoa, 20/09/2024;
- Cenni di morfodinamica costiera: cause e possibili interventi di mitigazione. Order of Engineers of Genoa, 18/10/2023;
- Ocean renewables: uno sguardo verso il futuro. Genova Blue District, 11/05/2022;
- Extreme sea states analysis in a changing climate: models and applications. Environmental Fluid Mechanics Research Group - University of Nottingham, 04/06/2020.

#### Outreach:

- Problematiche di erosione nel campo delle costruzioni marittime. TECCO trapunta event. Piombino, 16/04/2024.
- Ingegneria ed Idraulica Marittima e costiera. Workshop within the program Percorsi per le Competenze Trasversali e l'Orientamento (PCTO, ex alternanza scuola-lavoro). Genoa, 27/02/2024;
- Lo studio del mare e delle coste: sfide e opportunità per il presente ed il futuro. Workshop within the European Research Night. Genoa, 29/09/2023;
- Understanding the ocean products: ocean waves reconstruction and forecast. Ocean Data Week (Ocean Race – Genova Grand Finale), 06/2023.
- GOA. Reef artificiale a Genova. *Pint of Science* 2023. Genoa, 24/05/2023.

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## RESEARCH PROJECTS

- Valorisation de l'énergie produite par la mer (VAGUE) ;
- EU for Nature (EU4Nature);
- Multi-Risk science for resilient communities under a changing climate (RETURN);
- Preparedness for operational monitoring and prediction of contaminant transport in the sea (PROMPT);
- Assistenza alla navigazione per l'accesso ai porti in sicurezza (SINAPSI);



- Stop alle plastiche in H2O ai tempi del Covid (SPLASH&CO);
- Sistema transfrontaliero per la sicurezza in mare Contro i rischi della navigazione e per la salvaguardia dell'ambiente marino (SICOMAR+);
- Sistema integrato per la mitigazione dei rischi della navigazione in aree portuali (ISYPORT);

<b>project</b>	<b>role</b>	<b>program</b>	<b>period</b>	<b>Total Budget €</b>	<b>Unit Budget €</b>
<b>VAGUE</b>	Head of unit	Interreg IT-FR	2025-2028	1.849.859	280.070
<b>EU4Nature</b>	Head of unit	IPA III/2023/445-342	2024-2028	7.552.388	180.000
<b>RETURN</b>	Project associate	PNRR MISSIONE 4 INVESTIMENTO 1.3	2022-2025	160.000.000	156.000
<b>PROMPT</b>	Project associate	UCPM-2022-PP	2023-2026	499.378	104.984
<b>SINAPSI</b>	Project associate	Interreg IT-FR	2019-2023	2.188.294	241.808
<b>SPLASH&amp;CO</b>	Project associate	Interreg IT-FR	2021-2022	494.167	126.526
<b>SICOMAR+</b>	Project associate	Interreg IT-FR	2018-2022	7.040.242	289.880
<b>ISYPORT</b>	Project associate	PON 2014-2020	2020-2024	4.868.400	226.000

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## **AWARDS**

- AIOM price for the best Ph.D. thesis in the field of Maritime Hydraulics and Engineering in the period 2019-2022. Italian Offshore and Marine Engineering Association. Year 2022;
- Auydas Juan de la Cierva – Formación (FJC2021-047828-I). Post-Doc Grant. Gobierno de España, Ministerio de Ciencia, Innovación y Universidades, Agencia Estatal de Investigación. Year 2021 (untaken);





- SHOREline pREdiction through artificial-intelligence and pROcess-based modEl (SHORE-CODE). Post-Doc Grant from the Program Margalida Comas. Govern de les Illes Balears. Year 2021 (untaken);
- Microplastic particles behaviour in the sea: numerical models and field campaigns. PADI Foundation, 9150 Wilshire Blvd., Suite 300, Beverly Hills (CA). Budget: 6,200 \$. Year 2018.

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## TECHNOLOGY TRANSFER

Consulting in the field of hydraulics and maritime construction and coastal morphodynamics. Works in which I took part and/or coordinated are listed below:

- Studio per il dimensionamento preliminare di un'opera di protezione costiera in località Luino (VA). Anno 2024. Committente Grand Luino Srl;
- Analisi sulla generazione del moto ondoso indotto dal passaggio di navi da crociera in prossimità della costa di Fiumicino. Anno 2024. Committente RINA Consulting Spa;
- Analisi idro-morfodinamica della spiaggia di Sturla (GE) a seguito di interventi di rifioritura delle opere a costa: fase 1. Anno 2024. Committente Geoscape Società Cooperativa;
- Analisi idro-morfodinamica della spiaggia di Sturla (GE) a seguito di interventi di rifioritura delle opere a costa e posizionamento di reef artificiale: fase 2. Anno 2024. Committente Geoscape Società Cooperativa;
- Analysis of brine dispersion off the coast of Rossano (CS, Italy). Anno 2023. Committente Sizable Energy Srl;
- Caratterizzazione del clima meteo-marino caratteristico del tratto di litorale in corrispondenza di Capo Berta nei Comuni di Diano Marina e Imperia e studio per il dimensionamento preliminare di un'opera di protezione costiera. Anno 2023. Committente Flow-Ing Srl;
- Caratterizzazione del clima meteo-marino caratteristico del tratto di litorale antistante il sentiero azzurro nel Comune di Riomaggiore (SP) e studio per il dimensionamento preliminare di un'opera di protezione costiera. Anno 2023. Committente Flow-Ing Srl;
- Analisi idro e morfo-dinamica in un tratto di costa sito all'interno del Comune di Ceriale (SV). Anno 2023. Committente Comune di Ceriale;
- Caratterizzazione e analisi del clima meteo-marino in prossimità dell'isola di Stromboli (ME) in data 16/06/2016. Anno 2022. Ausiliario CTU in procedimento n. 2896/16 del Tribunale di Barcellona Pozzo di Gotto;
- Studi modellistici di dispersione termica/chimica al largo di terminali portuali destinati ad ospitare impianti di rigassificazione di GNL. Anni 2021-in corso. Committente Snam FSRU Italia;
- Ricostruzione modellistica numerica del moto ondoso in corrispondenza della frana di Capolungo. Anno 2022. Ausiliario CTU in procedimento n. 20812/44/2021 RGPM del Tribunale di Genova;



- Modellazione numerica della circolazione costiera e valutazione di ricadute in termine di protezione civile all'interno della baia di Sestri Levante. Anno 2021. Committente Comune di Sestri Levante;
- Caratterizzazione del clima meteo-marino di progetto in corrispondenza di un punto di ormeggio sul lungomare di Golfo Aranci (SS). Anno 2020. Ausiliario CTU in procedimento n. 2288 / 2018 RG del Tribunale di Tempio Pausania;
- Analisi dello stato di degrado della spiaggia di Travello sita a San Michele di Pagana (GE). Anno 2020. Committente Associazione Tre Prie;
- Caratterizzazione del clima meteo-marino di progetto in corrispondenza di un punto al largo della costa di Alassio (SV). Anno 2020. Committente Comune di Alassio;
- Studio del clima ondoso all'interno del Golfo di La Spezia. Anno 2017 Committente Autorità Portuale di La Spezia;

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## PEER REVIEW

WoS: AAE-1664-2021

ORCID: 0000-0001-6895-4845

Associate editor for the journal *Frontiers in Marine Science - Coastal Ocean Processes*  
<https://loop.frontiersin.org/people/2435732/overview>

Review activities for the following journals:

Copernicus Publications:

- Ocean Science
- Natural Hazards and Earth System Science

Elsevier:

- Ocean Modelling
- Applied Ocean Research
- Coastal Engineering
- Ocean Engineering
- European Journal of Mechanics – B/Fluids
- Weather and Climate Extremes

Frontiers:

- Frontiers in Marine Science

MDPI:

- Climate
- Coasts
- Sensors
- Water



Taylor and Francis Ltd.:

- Journal of Operational Oceanography

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## ARTICLES IN PEER-REVIEWED JOURNALS

	ID	Number of documents	h-index	Number of citations
Google scholar	<a href="#">FDL - Scholar</a>	24	13	472
Scopus	<a href="#">57195539800</a>	29	10	330

- Daliri, M., **De Leo, F.**, Loarca, A. M. L., Scovenna, M., Stocchino, A., Capello, M., Cutroneo, L., & Besio, G. (2025). From hindcast to forecast: A statistical framework for real-time coastal circulation bulletins in the Gulf of Genoa. *Applied Ocean Research*, 154, 104337;
- He, C., **De Leo, F.**, Stocchino, A., Yin, Z. Y., Abascal, A. J., & Jin, Y. F. (2024). Environmental risk assessment of coastal dredging based on clustering of meteocean forcing. *Coastal Engineering*, 104555;
- He, C., Stocchino, A., He, Y., Leung, K. M. Y., **De Leo, F.**, Yin, Z. Y., & Jin, Y. F. (2024). Risk assessment of e-waste-Liquid Crystal Monomers re-suspension caused by coastal dredging operations. *Science of the Total Environment*, 933, 173176;
- **De Leo, F.**, Cremonini, G., Corrales-González, M., & Besio, G. (2024). Climate analysis of wave systems for multimodal sea states in the Mediterranean Sea. *Applied Ocean Research*, 142, 103813;
- **De Leo, F.**, Briganti, R., & Besio, G. (2024). Trends in ocean waves climate within the Mediterranean Sea: a review. *Climate Dynamics*, 62(2), 1555-1566;
- **De Leo, F.**, Enríquez, A. R., Orfila, A., & Besio, G. (2022). Uncertainty assessment of significant wave height return levels downscaling for coastal application. *Applied Ocean Research*, 127, 103303;
- **De Leo, F.**, Talke, S. A., Orton, P. M., & Wahl, T. (2022). The Effect of Harbor Developments on Future High-Tide Flooding in Miami, Florida. *Journal of Geophysical Research: Oceans*, 127(7), e2022JC018496;
- Lira-Loarca, A., Cáceres-Euse, A., **De Leo, F.**, & Besio, G. (2022). Wave modeling with unstructured mesh for hindcast, forecast and wave hazard applications in the Mediterranean Sea. *Applied Ocean Research*, 122, 103118;
- **De Leo, F.**, Besio, G., Briganti, R., & Vanem, E. (2021). Non-stationary extreme value analysis of sea states based on linear trends. Analysis of annual maxima series of significant wave height and peak period in the Mediterranean Sea. *Coastal Engineering*, 167, 103896;
- Cremonini, G., **De Leo, F.**, Stocchino, A., & Besio, G. (2021). On the selection of time-varying scenarios of wind and ocean waves: Methodologies and applications in the North Tyrrhenian Sea. *Ocean Modelling*, 163, 101819;
- **De Leo, F.**, Besio, G., & Mentaschi, L. (2021). Trends and variability of ocean waves under RCP8.5 emission scenario in the Mediterranean Sea. *Ocean Dynamics*, 71(1), 97-117;



- Cutroneo, L., Ferretti, G., Barani, S., Scafidi, D., **De Leo, F.**, Besio, G., & Capello, M. (2021). Near Real-Time Monitoring of Significant Sea Wave Height through Microseism Recordings: Analysis of an Exceptional Sea Storm Event. *Journal of Marine Science and Engineering*, 9(3), 319;
- Lavidas, G., **De Leo, F.**, & Besio, G. (2020). Blue Growth Development in the Mediterranean Sea: Quantifying the Benefits of an Integrated Wave Energy Converter at Genoa Harbour. *Energies*, 13(16), 4201;
- Rizza, U., Canepa, E., Miglietta, M. M., Passerini, G., Morichetti, M., Mancinelli, E., Virgili, S., Besio, G., **De Leo, F.**, & Mazzino, A. (2020). Evaluation of drag coefficients under medicane conditions: Coupling waves, sea spray and surface friction. *Atmospheric Research*, 247, 105207;
- **De Leo, F.**, De Leo, A., Besio, G., & Briganti, R. (2020). Detection and quantification of trends in time series of significant wave heights: An application in the Mediterranean Sea. *Ocean Engineering*, 202, 107155;
- Oprandi, A., Mucerino, L., **De Leo, F.**, Bianchi, C. N., Morri, C., Azzola, A., Benelli, F., Besio, G., Ferrari, M., & Montefalcone, M. (2020). Effects of a severe storm on seagrass meadows. *Science of The Total Environment*, 748, 141373;
- Saviano, S., **De Leo, F.**, Besio, G., Zambianchi, E., & Uttieri, M. (2020). HF radar measurements of surface waves in the Gulf of Naples (Southeastern Tyrrhenian Sea): comparison with hindcast results at different scales. *Frontiers in Marine Science*, 7, 492;
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## CERTIFICATIONS AND LANGUAGE SKILLS

- SNSI Open Water Diver -18m +Nitrox 32. Diving Licence. Issued by Calypso Diving (Genoa). Year 2023;
- Italian: native speaker; English: Expert; Spanish: Expert;
- Diploma de español como lengua extranjera (DELE). Nivel C1. Certificate issued by Istituto Cervantes on 08/08/2019.