



Monica Montefalcone

Fixed-term assistant professor

✉ monica.montefalcone@unige.it

☎ +39 010 3538065

Education and training

2012

Training course on Geographic Information Systems (GIS) basic advanced 3D Analyst Spatial Model

Pentex s.r.l. - Torino - IT

2007

PhD in Earth and Marine Sciences - Science of the Sea

Thematic cartography and synthetic indexes for the evaluation of the coastal marine environment application to Posidonia oceanica meadows of Liguria

Università di Genova - Genova - IT

2009

Degree in Biological Sciences

Assessment of the state of health of the Posidonia oceanica meadow in Pian di Poma coastal area (Sanremo IM) evaluated by underwater survey techniques and analysis of phenological parameters - 110/110 cum laude
Università degli Studi di Milano - Milano - IT

Academic experience

2021 - ONGOING

Fixed-term researcher contrac according to art. 24 paragraph 3 letter b of the Law 30.12.2010 n. 240

DISTAV Università di Genova - Genova - IT
Ecologia (BIO/07)

2018 - 2020

Fixed-term researcher contrac according to art. 24 paragraph 3 letter a of the Law 30.12.2010 n. 240

DISTAV Università di Genova - Genova - IT
Ecologia (BIO/07)

2009 - 2018

Research fellow

DISTAV Università di Genova - Genova - IT
Research in the field of coastal marine ecology

2007 - 2009

Scholarship

DISTAV Università di Genova - Genova - IT
Research in the field of coastal marine ecology

Work experience

2002 - 2003

Scholarship

CoNISMa - Roma - IT
Research activity within the national project RIPO (Review of Posidonia oceanica meadows in Italy)

2001 - 2002

Contractor

ISPRA - Roma - IT
Research activity within the national monitoring project of Aphrodite System for Marine Protected Areas

Language skills

English

Proficient

Teaching activity

2022-today: Lecturer in 'Ecology' (6 CFU) for the Bachelor Degree in Biological Sciences (DiSTAV, University of Genoa)

2018-today: Lecturer in 'Seascape Ecology' (6 CFU) for the Master Degree in Marine Biology and Ecology (DiSTAV, University of Genoa)

2018-2022: Lecturer in 'Marine Biodiversity Management' (5 CFU) for the International Master Degree in Environmental Engineering (DICCA, University of Genoa)

2015-today: Lecturer in 'Tropical Marine Ecology' (3 CFU) for the Master Degree in Marine Biology and Ecology (DiSTAV, University of Genoa)

2013-today: Lecturer in 'Underwater Science' (2 CFU) for the Bachelor and Master degrees in Environmental and Natural Sciences, Biological Sciences, Marine Biology and Ecology, Conservation and Management of Nature (DiSTAV, University of Genoa Studies)

2018-2022: Lecturer at the annual professional training courses for 'Underwater scientific researcher: bioconstructions in the marine environment', Palinuro

2013-today: Lecturer at the annual professional training course for "Underwater Scientific Researcher" on underwater survey techniques and monitoring of coastal marine ecosystems. International School for Scientific Diving (ISSD)

2009: Lecturer in the 1st level University Master in 'Marine Environmental Emergencies', University of Genoa

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

2019-today: Supervisor of the PhD thesis in Marine Sciences (DiSTAV, University of Genoa) of Annalisa Azzola, entitled 'Evaluation of the effects of climate change on rocky reef ecosystems'

2017-2019: Supervisor of the PhD thesis in Marine Sciences (DiSTAV, University of Genoa) of Alice Oprandi, entitled 'Change in coastal marine ecosystems'

2013-2016: Supervisor of the PhD thesis in Marine Sciences (DiSTAV, University of Genoa) of Almudena Cànovas Molina, entitled 'Coralligenous assemblages: distribution, status and connectivity in the Ligurian Sea'

2001-today: Supervisor and co-supervisor of over 90 degree theses (Master, Bachelor degrees) for the Courses in Environmental and Natural Sciences, Marine Sciences, Biological Sciences, Geological Sciences, Conservation and Management of Nature, Biology and Marine Ecology (DiSTAV, University of Genoa)

PhD committees membership

2021-today: Member of the teaching staff of the Doctoral School in Sciences and Technologies for the Sea, University of Genoa

Research interests

- Coastal marine ecology
- Seascape ecology
- Tropical marine ecology
- Characterization and evaluation of benthic marine habitats, bionomy, mapping and evaluation of ecological status
- Analysis of the effects of climate change on marine ecosystems
- Conservation ecology, the effect of anthropogenic pressures on coastal marine environment
- Ecology of seagrass, of infralittoral and circalittoral reefs, of submerged marine caves
- Ecology of invasive alien species
- Historical data analysis
- Use of non-destructive underwater surveys
- Development of ecological indices and elaboration of predictive models

Grants

2022 - ONGOING

Biological monitoring of the effects of the expansion of

the main dam of the Port of Genoa on coastal marine habitats

Port Authority of Genoa - IT
Participant

2021 - ONGOING

COST Action CA20102 Marine Animal Forest of the World (MAF-WORLD)

EU - IT
Participant

2021 - ONGOING

Reforestation of Posidonia oceanica meadows in the Gulf of Tigullio

University of Genoa European Incentive (BIPE 2021) - IT
Principal investigator

2021 - ONGOING

LIFE PINNA LIFE20 NAT/IT/0012 Conservation and re-stocking of the Pinna nobilis in the western Mediterranean and Adriatic Sea

EU - IT
Principal investigator

2019 - ONGOING

Climate change increase in ocean temperatures and effects on marine ecosystems Italian monitoring network

Greenpeace Italy - IT
Principal investigator

2017 - 2020

EU programme Interreg V Marittimo MAREGOT (MANaging the Risks of coastal Erosion and cross-border GOVERNance ActIons)

EU - IT
Participant

Editorial activity

2021-2022: Guest Editor of the Special Issue 'Seascape Ecology, from characterization to evaluation' for the journal *Frontiers in Marine Science*
2005-today: Author of 97 scientific publications in international ISI journals (in addition to 2 submitted), of 8 volume contributions (of which 7 international), of 2 monographs, of 40 scientific publications in peer-reviewed journals (national and international), of 68 publications in proceedings of national and international conferences
2001-present: Referee for the following national and international scientific journals: *Advances in Oceanography and Limnology*; *Aquatic Biology*;

Aquatic Botany; Aquatic Conservation: Marine and Freshwater Ecosystems; Mediterranean Marine Biology; Biological Invasions; Chemistry and Ecology; Ecological Indicators; Environmental Monitoring and Assessment; Estuarine, Coastal and Shelf Science; Hydrobiology; Journal of Coastal Research; Journal of Environmental Management; Journal of Experimental Marine Biology and Ecology; Journal of the Marine Biological Association of the UK; Marine Ecology; Marine Biology; Marine Ecology Progress Series; Marine Environmental Research; Marine Pollution Bulletin; Plos One; Remote Sensing of Environment; Cahiers De Biologie Marine; Comptes Rendus Biologies; International Journal of Environmental Engineering; Science of the Total Environment; Scientific Reports; Frontiers in Marine Science

Other professional activities

2021-today: President of the BENTHOS Scientific Committee of the Italian Society of Marine Biology (SIBM)

2020-today: Scientific consultant for UNEP/MAP-SPA/RAC on marine habitats, for developing the 'Interpretation manual of the reference list of marine habitat types in the Mediterranean in the frame of the Barcelona Convention'

2019-2020: Scientific consultant for UNEP/MAP-SPA/RAC on marine habitats, in order to draft the manual 'Guidelines for the assessment of environmental impact on coralligenous / maërl assemblages'

2019-2020: Scientific consultant for UNEP/MAP-SPA/RAC on marine habitats, in order to draft the manual "Guidance for monitoring marine benthic habitats. Monitoring protocols of the Ecosystem Approach Common Indicators 1 and 2 related to marine benthic habitats'

2018-2019: Scientific consultant for UNEP/MAP-SPA/RAC on marine habitats in order to update, review, and finalize the classification of benthic marine habitats of the Mediterranean and the list of reference habitats worthy of conservation