



Marco Ferrari

Associate professor

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Education and training

1994

PhD in marine environmental sciences (geology and marine resources)

Environmental framework of the Ross sea western sector (Antarctica)
University of Trieste - Trieste - IT

Academic experience

2014 - ONGOING

Associate professor

University of Genoa - Genova - IT

2001 - 2014

Researcher

University of Genoa - Genova - IT

Language skills

Italian

Mother tongue

French

Independent

English

Basic

Teaching activity

- Sedimentology (D.G. Geological Sciences): AA 2002-03 / 2004-05
- Sedimentology (D.G. Environmental Marine Sciences): AA 2002-03 / 2003-04
- Foundations of sedimentology 3 credits (D.G. Geological Sciences): AA 2002-03 / 2006-07
- Coastal Dynamics 2 credits (D.G. Environmental Sciences): AA 2002-03 / 2009-10
- Study and Safeguarding of littoral 2 credits (D.G. Geological Sciences) AA 2003-04
- Sedimentology of Marine Environments 3 credits (D.G. Environmental Sciences): AA 2003-04 / 2008-09
- Coastal Protection 2 credits (D.G. Geological Sciences): AA 2004-05 / 2009-10
- Coastal Sedimentology 4 credits (D.G. Geological Sciences): AA 2006-07 / 2010-11

- Regional Geology module II 6 credits (D.G. Natural Sciences): AA 2010-11 / 2016 - 17
- Coastal zone management module I 6 credits (D.G. in Environmental Sciences): AA 2011-12 / 2021 - 22
- Coastal Dynamics 6 credits (D.G. Geological Sciences): AA 2011-12 / 2019 - 20
- Marine Biogeomorphology 6 credits (D.G. Biology and Marine Ecology): AA 2017 - 2018 / ongoing
- Coastal risk 6 credits (D.G. Geological Sciences): AA 2020 - 21 / 2023 - 24
- Coastal risk management and climate change 6 credits (D.G. Geological Sciences): AA 2024 - 25 / ongoing
- Principles of Geomorphology 6 credits (D.G. Environmental and Natural Science): AA 2018 - 19 / ongoing

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

Supervisor of 4 PhD.

supervisor of 11 research grants

Member of the Teaching Board of the PhD in Marine Sciences and Technologies.

Research interests

Coastal erosion: Coastal erosion represents a well-known criticality along the Italian coast. The studies in this regard are aimed to define new solutions that can allow to counter erosive phenomena. In recent years, attention has also been paid to the issue of climatic variations and how this phenomenon can accentuate the erosion of the coasts.

Marine floods: Storm surges, and the consequent flooding of coastal towns, have always been one of the main sources of coastal risk. In order to understand, prevent and mitigate these phenomena, studies have been undertaken relating to extreme weather and sea events, assessing their impact on the coast, also in relation to scenarios of rising sea level.

Marine biogeomorphology: The study of the interactions between marine organisms and geomorphological, hydrodynamic, sedimentological processes. this activity is mainly aimed to understand the mechanisms that govern the development and distribution of biocoenoses, in order to improve knowledge of the marine environment.

Seaside safety: Seaside tourism represents one of the sectors of major economic interest in Liguria. In this regard, studies have been undertaken aimed to the development of innovative tools capable of preventing and managing the risks associated with beach activity.

Grants

2021 - 2027

Amis

InterregVII - Marittimo - IT

Budget: 120.000 €

P.I.

The AMIS project involves the creation of digital models of the coastal environment. These advanced systems of representation and simulation of geospatial data allow us to understand past, present and future coastal dynamics, supporting risk assessment activities and coastal zone management.

2017 - 2020

Maregot

Interreg - Marittimo VI - IT

Budget: 360223 €

P.I.

The project is aimed at the joint prevention and management of the risks deriving from coastal erosion in the territorial area covered by the Maritime Program.

2010 - 2013

Res Mar

Interreg Marittimo - IT

Budget: 290000

P.I.

The Strategic Maritime Project 'RES - MAR: Réseau pour l'environnement dans espace Maritime', was aimed to improve monitoring systems, risk prevention, management of environmental problems and emergencies, the mitigation of pollution phenomena related to environmental water and soil sectors in the Maritime cooperation area.

Assignments abroad

Fellowship at the Pierre & Marie Curie University (Paris VI) in Paris from 01-12-1988 to 31-07-1989.

Other professional activities

University of Genoa - Spin Off GEoscape scarl. Founding partner