# 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 / ongoing
- Coastal Dynamics 6 credits (D.G.  Geological Sciences): AA 2011-12 / ongoing
- Marine Biogeomorphology (D.G. Biology and Marine Ecology): AA 2017 - 2018 / ongoing
- Coasta risk  6 credits (D.G. Geological Sciences): AA 2020 - 21

## *Postgraduate research and teaching activity*

### Supervision of PhD students, residents and post-doctoral fellows

Supervisor of 4 PhD.
supervisor of 10 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*

2017 - 2020
**Maregot**
Interreg - Marittimo - IT
360223 - Participant

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.
The project therefore intends to initiate a shared action which, through better knowledge of the erosive phenomena and the dynamics of the coasts, identifies the optimal intervention solutions for a correct management of the territory in relation to the morphological and hydrodynamic characteristics of the coastal stretch. The main actors of the project actions and recipients of these solutions are the Public Administrations with specific skills in the field of planning and management in the context of integrated coastal management, but also all the key subjects, public and private, who contribute to coastal management.

2010 - 2013

### Res Mar

Interreg Marittimo - IT

290000 - Participant

The Strategic Maritime Project 'RES - MAR: Reseau 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