

PERSONAL INFORMATION

Federico Falcini

 CNR-ISMAR



[Redacted phone number]

 federico.falcini@cnr.it

[Redacted address]

POSITION

Senior researcher at National Research Council (ISMAR-CNR)

Adjunct professor at University of Rome “Tor Vergata” with Scientific Qualification of Full Professor (ASN) in Geophysics (04/A4) obtained on 1 December 2023

PERSONAL STATEMENT

Over 20 years of experience in physical oceanography with a focus on coastal and thermohaline processes; seascape connectivity; global changes and environmental risks in coastal-marine environments; coastal eco-geomorphology; sediment transport and gravity currents; nonlinear internal waves; anomalous diffusivity in geophysics; implementation of satellite-based sampling strategy for ecosystem monitoring and analysis field activity. Chief scientist of several national and international oceanographic cruises.

WORK EXPERIENCE

2023 – present

Senior Researcher

Institute of Marine Sciences - National Research Council (ISMAR-CNR), Rome (Italy)

2012 – 2022

Researcher

Institute of Marine Sciences - National Research Council (ISMAR-CNR), Rome (Italy)

2011 – 2012

Postdoctoral Researcher

St. Anthony Falls Laboratory (University of Minnesota), Minneapolis MN (USA)

2009 – 2011

Postdoctoral Researcher/Adjunct Professor

Dept. of Earth and Environmental Sciences (University of Pennsylvania), Philadelphia PA (USA)

2008 – 2009

Postdoctoral Researcher

Dept. of Earth Sciences (Boston University), Boston MA (USA)

2008 – 2008

Postdoctoral Researcher

Institute of Environmental Geology and Geoengineering (CNR), Rome (Italy)

1994 – Present

Research Associate (undergraduate level)

Institute of Biometeorology (CNR), Rome (Italy)

EDUCATION AND TRAINING

2003 – 2008

PhD in Earth Sciences

EQF Level 8

Dep. of Earth Sciences, University of Rome “La Sapienza” (Italy)

1996 - 2003

MSc and BS in Physics

EQF Level 7

Dep. of Physics, University of Rome “La Sapienza” (Italy)

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills gained through experience as coordinator of research activity. Contributions to national and international scientific press: Scenari (Sole 24 Ore): Processi oceanici e variabilità climatica (n. 1 del 28 Febbraio 2022: https://minisiti.ilsole24ore.com/scenari_28febbraio_bis/scenari_28febbraio_bis.pdf); Almanacco della Scienza (CNR) - Spiegata l'alluvione di New Orleans. (2012); Nature, News in Focus: Studies spy on a river's rage (2011); Rendez-vous annuel entre la communauté scientifique et les gestionnaires du bassin de la Loire et ses affluents: Monitoring Mississippi Delta Flood from Space. (2011); The Christian Science Monitor: How Mississippi River Floods could save Louisiana's sinking coasts (2011); Penn News: Penn Researchers Monitoring Mississippi Delta Flood From Space (2011); EOS Research Spotlight: What controls the shape of sediment channels in river deltas? (2011); SAS Frontiers: Can the Mississippi River Fight the Oil Spill in the Gulf? (2010)

Organizational/managerial skills Chief Scientists for several oceanographic cruises (MSFD2016 and 2017, Sentinel2017, COSIMO2015, 2020, 2021; S4GES2022; BIOTREC-Tara2024; Tara-Oceans/TREC Expedition). Co-Pi of the ESA funded MITHO Project (OceanScienceCluster grant n. ESA AO/1-11510/22/I-DT). PI of the ESA funded SOON project (EO4Society grant no. 4000128147/19/I-DT). WP leader of the EU funded H2020 CERTO (LC-SPACE-04-EO-2019-2020). Pilot Case leader of the EU funded H2020 FORCOAST (DT-SPACE-01-EO-2018-2020). Co-organiser of 1 EU funded Workshop (EuroMED Cooperation: Inland and Marine Water Challenges - H2020-Adhoc-2014-20, 2014). Coordinator of a NSF project on the historic 2011 Mississippi River flood (US National Science Foundation RAPID EAR-1140269, 2011); Currently, managing and scheduling of 1 national funded project (Marine Strategy Framework Directive: National implementation).

Job-related skills ECV data analysis, generate R&D ideas, initiate research projects combining marine and satellite assets.

Teaching and supervising activity Currently co-supervising 2 graduate students at University "Roma Tre" (Italy) and 1 postdoctoral fellows at the Institute of Marine Sciences (CNR; Italy). Acted as co-supervisor of: 2 graduate students at the University of Rome "La Sapienza" (Italy), 2 post-doctoral fellows at the Institute of Atmospheric Sciences and Climate (CNR, Italy), 3 undergraduate students at the University of Pennsylvania (USA).

**Overview of publications
(from SCOPUS[Google Scholar])**

Total peer-reviewed publications: 68[68]
Total citations: 1468[1934]
h-index: 21[24]

Refereeing

- Acted as referee for the following ISI Journals: Nature Communications, Scientific Reports, Advances in Geosciences; Coastal and Shelf Science; Continental Shelf Research; Earth Surface Processes and Landforms; Estuarine, Environmental Science & Technology; Geomorphology; Geophysical Research Letters; Journal of Fluid Mechanics; Journal of Geophysical Research - Earth Surface; Journal of Hydrology; Journal of Petroleum Science and Engineering; Journal of Sedimentary Research; Ocean Science; Remote Sensing of Environment; Scientific Reports. Reviewed research proposal for (AXA RF Post-Doctoral Campaign 2014): Tides As A Remedy For Sinking Of Deltas (Proposal 14-AXA-PDOC-366).

Rome, October 23th 2024

Federico Falcini

