

Elisa Malinverno, born in Como, Italy, September 13th, 1974.



EDUCATION:

2000: Degree in Geological Sciences, 110/110 cum Laude. Thesis title: Living Coccolithophores in the Eastern Mediterranean and Black Sea (in Italian)

2004: PhD in Geological Sciences and Geotechnologies for the Earth and the Environment. Thesis title: Biogeochemical Fluxes in the Eastern Mediterranean. Unpublished PhD Thesis, in English

ACADEMIC POSITION:

2001-2002: coordinator of “Young Researcher” project of MIUR

2004-2005: contract with CoNISMa under the National Italian project “Censimento” funded by the Ministry for the Environment and Territory Conservation

2006-2007: 10 months position at the University of Athens - Department of Historical Geology-Paleontology under 04EP59/ENTER project of the European Union, General Secretariat for Research and Technology / Greek Ministry for Development

2007-2008: Post-Doc at the University of Milano-Bicocca, Department of Geological Sciences and Geotechnologies

December 15th 2008 – September 30th 2017: Researcher at the University of Milano-Bicocca, Department of Earth and Environmental Sciences.

October 1st 2017 to now: Associate Professor at the University of Milano-Bicocca

RESEARCH ACTIVITY:

My scientific activity is related to the study of microfossils from present-day and past environments. In particular, the main research targets are:

- Ecology, taxonomy, morphometry, distribution and fluxes of mineralized plankton (coccolithophores, silicoflagellates, diatoms, ebridians, parmales) from different oceanographic settings.
- Paleoecological reconstructions of past environments (The white coral ecosystem at Santa Maria di Leuca, the canyon system offshore eastern Calabria, the Deep Hypersaline Anoxic Basins of the Eastern Mediterranean, the submarine ecosystem of the Mud Volcanoes of the Hyblean Plateau, past seagrass environments, the eastern Mediterranean sapropels).

- Biostratigraphy in different paleoceanographic and chronological contexts (The Eocene and Miocene record of the Pisco Basin fossil Lagerstätte; the Plio-Pleistocene record of the South Pacific: participation as nanofossil micropaleontologist.

I participated, also as chief scientist, to several oceanographic cruises on board Italian, European and US Research vessels within National and international projects; I participated, as calcareous nanofossil specialist, to the IODP-383 scientific expedition to the South Pacific; I took part in 7 scientific expeditions to the Pisco Basin of Peru.

TEACHING ACTIVITY:

Curricular teaching at Milano-Bicocca

1. 2005-2007: contract for the course of Paleoclimatologia – lessons (5 cfu)
2. 2009 - today: Paleoclimatology – (5 cfu lessons), thereafter Paleoceanography and Paleoclimatology – (4 cfu lessons), then Paleoceanography and Paleoclimatology (5 cfu lessons, 1 cfu lab; since 2023: 4 cfu lessons, 1 cfu lab, 1 cfu field activity)
3. 2009 - today: Paleoecology of Planktonic Systems within the course of Applications of Geobiology, thereafter Applied Geobiology, then Biofacies (4 cfu lessons, 2 cfu lab, 1 cfu fieldwork)
4. 2011/12: Geobiology Lab – (4 cfu lab)
5. 2013-2018: Cartography Lab (2 cfu practicals, repeated for 2/3 shifts) within the course of Principles of Geology
6. 2018/19 and 2019/20: Geological Field work I (4 cfu, fieldwork)
7. 2018 - today: Paleontology Fieldwork (1 cfu fieldwork for 3 shifts) within the course of Paleontology
8. 2020 - today: Bases of Oceanography (2 cfu lessons, since 2023 3 cfu) within the course of Introduction to the Geography of the Oceans
9. 2023-today: Cartography Lab (1 cfu practicals) within the course of Physical Geography

Teaching abroad:

- 1) Program LLP – ERASMUS 2012/2013 (DR n. 0021117/12 del 31.07.2012) at the National and Kapodistrian University of Athens 08-13 April 2013: classes on silicoflagellate taxonomy, ecology and biostratigraphy (8 hours).

2) Program Erasmus+ 2016/17 at the National and Kapodistrian University of Athens 22-26 May 2017: classes on biostratigraphy and paleoecology of the fossil Lagerstätte of the Pisco Basin (8 hours).

3) Program Erasmus+ 2018/19 at the National and Kapodistrian University of Athens 17-23 March 2019: classes on silicoflagellates and their applications (8 hours)

4) Teaching at the Christian-Albrechts University of Kiel on April.-May, 2023: the ocean as a habitat; biological pump and fluxes (6 hours)

Thesis supervision:

Supervisor of 71 Theses (and 10 ongoing Theses, Bachelor and Master)

PhD supervision:

Co-supervisor of 1 PhD. Karen Gariboldi: Diatom biostratigraphy in the Pisco Basin

Supervisor of 2 PhDs:

Giulia Bosio: Integrated chronostratigraphy through radiometric dating and biostratigraphy. The Pisco Basin case study

Luca Mariani: Cenozoic benthic foraminifera associations as tools for paleoenvironmental and stratigraphic reconstructions.

Post-doc supervision:

1) Giulia Bosio: Taphonomic, geochemical and geochronological analyses of an Eo-Miocene fossil Lagerstätte.

2) Maria Elena Gastaldello: Diatom biostratigraphy and paleoecological reconstructions of the sediment succession of the Pisco Basin (Ica desert, Peru) - ongoing.

PROJECTS:

a) National Projects:

2001-2002: “Young Researchers” – Biogenic Fluxes in the Eastern Mediterranean (2001-2002).
Coordinator

2000-2003: SINAPSI – Seasonal, INterannual and decAdal variability of the atmosPhere, oceanS and related marIne ecosystems (MIUR).

2004-2006: ABIOCLEAR – Biogenic Cycled in Antarctica – climatic and paleoclimatic reconstructions (PNRA).

2003-2006: APLABES – White coral buildups in the Ionian Sea - Apulian Plateau Bank (MIUR).

2005-2008: VECTOR - VulnErabilità delle Coste e degli ecosistemi marini italiani ai cambiamenti climaTici e loro ruolO nei cicli del caRbonio mediterraneo (MIUR, MEF, MATT, MPAF con FISR)

2006-2008: MESC – Mud Volcanoes Ecosystem study – Sicily Channel (MIUR)

2011-2013: ROSSLOPE – Past and Present sedimentary dynamics in the Ross Sea: a multidisciplinary approach to the study of the continental slope (PNRA). Coordinator of the local Research Unit of Milano-Bicocca.

2013-2015: ROSSLOPE-II - Past and Present sedimentary dynamics in the Ross Sea: a multidisciplinary approach to the study of the continental slope (PNRA). Coordinator of the local Research Unit of Milano-Bicocca.

2014-2017: PRIN Marine biodiversity and primary productivity in the Neogene Andean forearc basins (PRIN, MIUR). Coordinator of the local Research Unit of Milano-Bicocca.

2023-today: PRIN2022 Project - BIOVERTICES (BIOdiversity of VERTEbrates In the CEozoic Sea): New approaches and research tools for unveiling the paleoecology, stratigraphy, taphonomy and evolutionary diversity of the Eo–Miocene marine vertebrates of the Pisco Basin Fossil-Lagerstätte

(southern Peru) and their relationships to global and regional environmental changes

b) International Projects

1998-2001: SAP – Sapropels and Paleoceanography (EU)

2001-2004: BIODEEP – Biotechnologies from the Deep (EU)

2005-2008: MERF - Quaternary marine ecosystem response to fertilization: Mediterranean sapropel events and implications for marine carbon uptake (ESF – EuroCLIMATE).

2006-2009: MOCCHA - Multidisciplinary study of continental/ocean climate dynamics using high-resolution records from the eastern Mediterranean (ESF – EuroMARC)

2011-2014: MEDSEA – Mediterranean Sea Acidification in a changing climate (EU – 7FP)

2019: grant from IODP-Italia and participation to the International IODP expedition within the IODP383-DYNAPACC project

LANGUAGES:

Italian (mother language)

English: excellent, written and spoken

Greek: excellent, written and spoken

French, sufficient, written and spoken

Spanish, sufficient, spoken

BIBLIOMETRIC DATA

H-index: 27 (Scopus, May 2024)

Total publications 79 (Scopus, May 2024)

Total citations: 2188 (Scopus, May 2024)