



# Laura Crispini

Full professor

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## Education and training

1995

### PhD in Earth Sciences

PhD School of University of Genova-Torino-Cagliari - IT

1990

### Master Degree in Earth Sciences

University of Genova - Genova - IT

## Academic experience

Dec 2021 - ongoing

### Full Professor

University of Genova - IT

- Vice-Coordinator of Bachelor and Master Courses in Geological Sciences (University of Genova)
- Coordinator of the Italian Group of Structural Geology, section of the Italian Geological Society (GIGS-SGI)
- Appointed Italian representative of the SCAR (International Scientific Committee on Antarctic Research) Geosciences Group
- Designed component of the "EU-PolarNet 2 Polar Expert Group" (PEG) for the topics "Solid earth and its interactions"
- Appointed Component of the PNRA-MUR Polar Research Committee (CRP)
- Component for the for the 3rd Mission Committee of the Department DISTAV (UniGE)
- Component of the Recruiting Committee for the Department DISTAV (UniGE)
- Manager for Geological mapping Projects for the Italian National Service (CARG-ISPRA),
- Component of the PhD Board of the STAT PhD School 'Science And Technologies for the Environment and Territory' (University of Genova),
- PI of PNRA Projects, PI of Research Unit for PRIN2020
- Scientific Coordinator in the XXXVIII PNRA Italian Antarctic Expedition on board of R/V Laura Bassi

2011 - 2021

### Associate Professor in Structural Geology and Tectonics

University of Genova - Genova - IT

Participation in Scientific Expedition in Antarctica: PNRA Italian Antarctic Exp XXX (2014-15) XXXI (2015-16) XXXII (2016-17) XXXIV (2018-19)- Invited Field Scientist in the German Scientific Expedition in Antarctica GANOVEX XI BGR (2015-16) - Field leader for the Scientific Expedition in Antarctica GANOVEX XII-REGGAE PNRA (2016-17)-(2018-19) -Leader of 'Structural Geology Team' ICDP-Oman Drilling Project' Phase 1 Chikyu (Japan 2017) -Geologist of the Science Team for 'ICDP-Oman Drilling Project' Phase 2 (Oman 2018) - Leader of the 'Structural Geology Team' ICDP-Oman Phase2 Chikyu (Japan 2018) - Field Director of Geological mapping for the Italian and Regional Geological Survey mapping Projects

**1999 - 2010**

**Assistant Professor/Permanent Researcher in Structural Geology and Tectonics**

University of Genova - Genova - IT

I took part in Scientific Expedition in Antarctica with Remote Field Camps PNRA Italian Antarctic Exp XIX (2003-04) XXI (2005-06) - Shipboard Scientist in ODP (Ocean Drilling Program) LEG 206- Site 1256 ' (2002-03)-Shipboard Scientist in IODP-Exp 309 ' Superfast Spreading Rate Crust 2-site 1256' (2005) - Field Director of Geological mapping for the Italian and Regional Geological Survey mapping Projects

**1996 - 1999**

**Post-Doctoral Research Fellow in Structural Geology and Tectonics of Antarctica**

University of Genova - Genova - IT

I took part in Scientific Expedition in Antarctica with Remote Field Camps PNRA Italian Antarctic Exp XII (1996-97)-

**1995 - 1996**

**Associated Researcher and Teaching assistant**

University of Genova - Genova - IT

**1992 - 1994**

**PhD Student in Earth Sciences**

University of Genova - Genova - IT

***Teaching activity***

I have been teaching at University of Genova since 1991. Since 1999 my classes include: Field geology and mapping (including interpretation of geological maps and cross sections), Structural Geology, Microtectonics, Application of Structural Geology both for B.Sc. level and MSc. level and Classes for the PhD School of Earth Sciences and Polar Sciences.

-I am active in dissemination and outreach activity organising Seminars and Laboratory for Public, Museums and Schools.

***Postgraduate research and teaching activity***

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

- I have been Advisor (or co-advisor) for 7 PhD students and more than 100 MSc theses and BSc theses and for Post-doc fellows, Italian 'Assegnista di Ricerca'. I have been Co-supervisor and coordinator of WP7 (Dissemination and Exploitation) in ESR2 (Early Stage Researchers) Marie-Curie Initial Training Network European Union within the Marie Curie Initial, project

"ABYSS, Network training on reactive geological systems from the mantle to the abyssal sub-seafloor ", Grant Agreement n. 608001.

- I am member of the PhD Board of the STAT PhD School 'Science And Technologies for the Environment and Territory' (University of Genova)

## **Postgraduate (PhD) teaching activity**

- Since 2000 I held lectures for the PhD school of Earth Sciences of the University of Genova and I held invited seminars at national and international PhD Schools and Masters at Italian and foreign Universities and Research Centers

## ***Research interests***

### **SCIENTIFIC INTEREST**

- ERC Sectors: PE\_10: PE10\_5, PE10\_7, PE10\_10, PE10\_11, PE10\_12, PE10\_15 LC scientific interests are on: Structural geology, Tectonics and geodynamics, petrology and Geological mapping.

Main topics:

- Geodynamics of Gondwana and Transantarctic Mountains, Antarctica
- Evolution of orogeny: deformation and metamorphism, exhumation of high-pressure rocks and kinematic trajectories, late-orogenic tectonics
- Melanges and subduction channels
- Ophiolite and Oceanic sequences
- Structures and microstructures of deformed rocks in high strain zones, relation to EQ dynamics. Shear zones and fluid-rock interaction
- Connection between geology and geophysics.
- Dynamics of Intraoceanic subduction zones and digital modeling. Principal Field sites: Western Alps, Ligurian Alps, Corsica, northern Apennine, Antarctica, Oman and the Ocean East Pacific Ridge.

### **ONGOING PROJECTS (Coordinator-PI or Local Coordinator-LC)**

- BOOST-Bridging Onshore-Offshore Structures at the Pacific Coast of north Victoria Land (Antarctica): an integrated approach" (PNRA-MUR and BGR-Hannover)
- "POEM-POLigEnetic Mélanges: anatomy, significance and societal impact" PRIN-MUR
- CARG-ISPRA for Geological Sheets n. 244 "ORMEA", n. 245 "ALBENGA", n. 213 "GENOVA" (submerged areas) and n. 229 "SAVONA"
- "SWAIS2C: Sensitivity of the West Antarctic Ice Sheet to 2 degrees celsius" ([www.swais2c.aq/](http://www.swais2c.aq/)) and "Italy for SWAIS-2C" - PNRA-MUR
- Multi-Risk science for resilient communities under a changing climate" PNRR RETURN - Spoke VS3