Laura Federico

Associate professor

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Education and training

2003
PhD in Earth Sciences
Subduction and Exhumation of Ligurian Alps metaophiolites geochronological constraints and tectono-metamorphic evolution
University of Genova - Genova - IT

1998
Master's degree in Geology
Field mapping and structural analysis of the area between Praglia and S. Carlo di Cese (Voltri Group Ligurian Alps) - 110/110 with honors
University of Genova - Genova - IT

Academic experience

2016 - ONGOING
Associate Professor of S.S.D. GEO/03 (Structural Geology)
DISTAV - University of Genova - Genova - IT

2012 - 2015
Researcher of S.S.D. GEO/03 (Structural Geology)
DISTAV - University of Genova - Genova - IT

2008 - 2010
Post-doctoral fellow
DISTAV - University of Genova - Genova - IT
Late- and post-orogenic structural evolution of the SE-termination of Ligurian Alps

2006 - 2007
Post-doctoral fellow
DISTAV - University of Genova - Genova - IT
The tectonic lineaments of northern Victoria Land in the geodynamics of Antarctica - New Zealand - Tasmania - Australia system

2003 - 2005
Post-doctoral fellow
DISTAV - University of Genova - Genova - IT
Paleozoic geodynamics of northern Victoria Land - Antarctica

Teaching activity

I carry out my teaching activity within the Geology course of the University of Genova.

At present I teach the structural geology module within both Geology 1 (first year of the Bachelor's degree in Geology) and Geology 2 courses (second year of the Bachelor's degree in Geology) and part of the Analysis, carthography and modeling of geological structures course (first year of the Master's degree in Geology).

Research interests

My principal reserch fields are:

1) Relationships between deformation and metamorphism in HP rocks;
2) Inversion of fault-slip data and paleostress field reconstructions;
3) Structural setting of the Western Alps and geodynamic evolution of the 'Ligurian knot';
4) Subduction and exhumation mechanisms in collisional orogens;
5) Tectonics of the Transantarctic Mountains in northern Victoria Land (Antarctica);
6) Field mapping with production of geological maps of the Ligurian Alps and Tertiary Piedmont Basin (northern Italy).

This research activity led to the publication of about 45 papers and 130 abstracts of congress presentations, of several geological maps and the PhD Thesis.