



Elisabetta Rampone

Full professor

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Education and training

1992

Doctorate Degree in Earth Sciences

Petrology and Geochemistry of mantle peridotites from the Northern Apennines

University of Genova - Genova - IT

1987

Master Degree in Geological Sciences

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University of Genova - Genova - IT

Academic experience

2013 - ONGOING

Full Professor in Petrology

University of Genova - Genova - IT

2001 - 2013

Associate Professor in Petrology

University of Genova - Genova - IT

1998 - 2001

Associate Professor in Petrology

University of Milano - Bicocca - Milano - IT

1996 - 1998

Permanent Researcher in Petrology

University of Milano - Milano - IT

1994 - 1995

Post-doctoral fellow

University of Genova - Genova - IT

1991 - 1993

C.N.R. post-doctoral fellow

University of Genova - Genova - IT

1989 - 1991

PhD student

University of Genova - Genova - IT

Academic Appointments

30/11/2012 – 31/07/2017: member of the Research Observatory of Genova University;

November 2015 – December 2016: member of the national Group of Expert of Evaluation (GEV 04) for evaluation of Italian Universities and Research Institutions (VQR 2011-2014);

1/11/2018 – 31/10/2021: Coordinator of the Earth Sciences courses (Bachelor and Master) of Genova University;

1/11/2021 – present: Head of the Department of Earth, Environment and Life Science (DISTAV) of Genova University.

From 1/11/2024: member of the Academic Senate of the University of Genova.

Experience

Lectures and Invited Talks

E. Rampone held seminars and invited talks in international meetings and schools. Most significant are:

13-17 Settembre 1998: Invited talk to the “Penrose Conference on ophiolites and oceanic lithosphere”, (organized by the GSA in San Francisco, USA) (title: “The ophiolites - oceanic lithosphere analogue: new insights from the Northern Apennines”).

November 2001: Invited talk to the SGA annual meeting (title: Mantle petrology as key to the understanding of oceanic lithosphere formation: inferences from the Ligurian ophiolites), Boston, USA.

18-22 June 2007: lesson to the “International School of Isotope Geology”, held in Verbania, Italy (title: The isotopic composition of oceanic lithospheric mantle: insights from abyssal peridotites and ophiolites”).

-13/09/2016: invited keynote to EMC2016 (Rimini, Italy), (title: “Melt migration and melt-rock reaction in the Alpine-Apennine peridotites: insights on mantle dynamics in extending lithosphere”).

13-17/02/2017: lesson to the “International Winter School: Melting and fluid/melt-rock reactions in the mantle”, Pavia (Italy). (title: “Field, microstructural and geochemical evidence of melt-rock reaction in the Ligurian peridotite”).

25/11/2018: invited seminar to the national meeting “Le Geoscienze per il futuro” organized by the Accademia Nazionale dei Lincei (Roma), (Title: “Composizione e Dinamica del Mantello Terrestre, stato dell’arte e prospettive”).

21/08/2019: invited keynote to Goldschmidt Conference 2019, Barcelona (Spain). (Title “The role of melt-rock reaction in creating Enriched-MORB mantle sources”).

09/07/2025: invited keynote to Goldschmidt Conference 2025, Praga (Czech Republic). (Title: Pyroxenite: a key component in creating Enriched-MORB mantle sources”).

Scientific Awards

- Award “Angelo Bianchi”, 1993, assigned by the Italian Society of Mineralogy and Petrology;

- Award "Giuseppe Borgia" for research in Geology, 1996, assigned by the “Accademia Nazionale dei Lincei”.

Scientific Affiliations

2013-2015: member of the Presidency Council of the Italian Society of Mineralogy and Petrology (SIMP);

Member of the Italian Society of Mineralogy and Petrology (SIMP);

Member of the National Group of Petrology (President in the period 2020-2022).

PhD committees membership

2006 (XXII cycle) to 2012 (XXVIII cycle): Committee Member of the Earth Science Doctorate School, University of Genoa.

2013 (cycle XXIX) to present: Committee Member of the Doctorate School on Earth and Environmental Sciences (STAT), University of Genoa.

Research interests

My research activity is developed in the context of competitive national projects funded by the Italian Ministry of Research and University (PRIN-MIUR projects) and the University of Genoa, and international projects funded by the European Community.

My research interests are primarily focused on the petrology and geochemistry of ophiolitic sequences and mantle rocks from different geological contexts: 1) ophiolite associations (mantle peridotites, gabbros, basalts) of the Northern Apennines, Ligurian Alps, Alpine Corsica, Oman, 2) garnet peridotites from the Ulten area (Eastern Alps), 3) mantle xenoliths of the Betic Cordillera (Southern Spain).

Main investigated topics are:

- Mechanisms of magma production, melt percolation and melt-peridotite interaction acting in the asthenospheric and lithospheric mantle at oceanic conditions;
- Accretion processes of the oceanic crust;
- Metamorphic evolution of the lithospheric mantle at extensional settings;
- Melt-peridotite interactions and mantle metasomatism in supra-subduction environments;
- Role of pyroxenitic components in the chemical and isotopic heterogeneity of mantle sources.

Scientific production

I published 75 papers (65 of which on indexed journals) that received up to date 3663 citations (SCOPUS). She has an H-index (SCOPUS) = 37. According to Google Scholar, she received 4483 citations and she has an H-index = 38. In the last five years, she published 12 papers (on indexed journals) that received 171 citations (according to SCOPUS).

Funded Projects

Melt-rock reaction and melt migration in the MORB mantle through combined natural and experimental studies Prot. 2015C5LN35

MIUR - Project PRIN-Cofin - IT

Principal Investigator

2013 - 2018

FP7-PEOPLE-2013-ITN Training network on reactive geological systems from the mantle to the abyssal sub-seafloor (Multi-partner ITN)

EU Project

Responsible of Genoa RU. Project title: 'Melt-rock interactions in the oceanic lithosphere: microstructural and petro-geochemical constraints from ophiolites'.

2012 - 2013

Traccianti dei processi petrogenetici ai margini di placca convergenti

University of Genoa - IT

Participant

2011 - 2012

Petrologia di eventi magmatici pre-Triassici nella litosfera Europa-Adria

University of Genoa - IT

Scientific Responsible

2009 - 2011

Light element and LILE budgets of subduction fluids released from COH-bearing

natural ultramafic systems at high and ultrahigh pressure

MIUR - Project PRIN-Cofin - IT

Participant

2007 - 2009

Garnet- and carbonate-bearing ultramafic rocks of high- and ultrahigh- pressure origin: monitors of COH fluid/mantle exchange at subduction environments

MIUR - Project PRIN-Cofin - IT

Participant

2008 - 2009

Processi magmatici e metamorfici nella litosfera oceanica attuale e fossile in estensione

University of Genoa - IT

Participant

2007 - 2008

Petrogenesi rock- melt- e fluid-dominated nella litosfera della Tetide Ligure Giurassica

University of Genoa - IT

Participant

2005 - 2007

Lithosphere evolution induced by migration of mantle derived melts at different geodynamic settings

MIUR - Project PRIN-Cofin - IT

Participant

2006 - 2007

Formazione migrazione e messa in posto di fusi e fluidi nella litosfera

University of Genoa - IT

Participant

2003 - 2005

Melt percolation and impregnation in ophiolitic peridotites

MIUR - Project PRIN-Cofin - IT

Participant

2002 - 2003

Migrazione ed interazione di fluidi e fusi nel mantello litosferico in diversi ambienti geodinamici

University of Genoa

Scientific Responsible

2002 - 2004

Petrology and isotope geochemistry of gabbroic rocks in ophiolitic sequences from Liguria (Italy) and Corse (France)

MIUR - Project PRIN-Cofin - IT

Participant

2000 - 2002

Fluid production in subducted femic and ultrafemic rocks and melt impregnation and cristallization in ophiolitic peridotites

MIUR - Project PRIN-Cofin - IT

Participant

1998 - 2000

Petrologic processes at the slab-mantle wedge interface: natural and experimental constraint

MIUR - Project PRIN-Cofin - IT

Participant

Editorial activity

Since 2014 I am Editor-in-Chief of European Journal of Mineralogy

(<https://www.schweizerbart.de/journals/ejm/>).

From 2006 to 2013 I was Associate Editor of European Journal of Mineralogy.

I am referee for funding agencies (Italian MIUR, NSF, USA) and for national

and international journals.

2024: Editor of the EMU Notes Volume 21 - Chemical Geodynamics of the Earth's Mantle: New Paradigms (C. Bonadiman and E. Rampone, editors)