

Maria Rosaria Renna – Curriculum Vitae

Personal data

Born: October 27, 1974 in Botrugno (Lecce, Italy)

Position: Associate Professor (Petrology)

Affiliation: Dipartimento di Scienze Matematiche ed Informatiche, Scienze Fisiche e Scienze della Terra (MIFT), Università degli Studi di Messina, Viale F. Stagno d'Alcontres 31, 98166 Messina, Italy

Email: mrenna@unime.it

Education

23/2/2005: Ph.D in Earth Sciences, University of Pavia

13/7/2000: Degree in Geological Sciences with mark 110/110 cum Laude, University of Pavia

Positions

Since 10/01/2022: Associate Professor in Petrology (GEO/07) at the University of Messina

1/10/2011 – 09/01/2022: Researcher in Petrology (GEO/07) at the University of Messina

1/11/2004 – 31/10/2005, 6/4/2006 – 30/6/2006, 1/7/2006 – 30/6/2011: Postdoctoral fellowship, Dep. of Earth Sciences, University of Pavia

Research Activity

Research interests

The overall research interests are the application of major and trace element and isotope geochemistry and U-Pb geochronology to the evolution of continental and oceanic crust.

Research fields

- processes related to the interaction of basic and acid magmas in plutonic post-collisional settings;
- petrogenesis of the basic magmatism developed in western European Variscides in conjunction with the extensional phase subsequent to the Variscan collision;
- geochronological investigations by applying U-Pb in situ analyses of zircon and baddeleyite with LA-ICPMS on rocks from several units;
- formation and accretion of lower oceanic crust by studying the gabbroic sequence from the Jurassic ophiolites exposed along the Alpine-Apennine belt, which bear remarkable structural and compositional resemblances to those from slow spreading ridges.

Currently her research is mainly devoted to the study of the:

- i. petrogenesis of mafic-ultramafic sequences from the lower continental crust section of the Ivrea-Verbano Zone (Southern Alps);
- ii. origin and evolution of acid and basic magmatism in post-collisional setting (Corsica batholith).

Publications

Her research activity is documented in 69 scientific works, which include:

- 16 scientific papers in International Journals;
- 3 excursion guides for International Conferences/Meetings;
- 50 abstracts of works presented at National and International Congresses.

Invited field trip co-leader

2005 - International Conference in Honor of Ron H. Vernon” (Corsica, October 2005)

2008 - “Eurogranites – IGC510 2008 Joint Field-Meeting” (Corsica, September 2008)

Funded Projects:

Component of the following funded projects:

- ARS01_00697 - AGM for CuHe - Materiali di nuova generazione per il restauro dei Beni Culturali: nuovo approccio alla fruizione
- MIUR PRIN 2017: “Overtime tectonic, dynamic and rheologic control on destructive multiple seismic events, Special Italian Faults & Earthquakes: from real 4D cases to models”
- MIUR PRIN 2015: “Melt-rock reaction and melt migration in the MORB mantle through combined natural and experimental studies”
- PNRA 2010: “Evoluzione terminale e riattivazione dell’Orogene di Ross in Terra Vittoria settentrionale: correlazioni con gli orogeni Delamerian e Lachlan dell’Australia sud-orientale”
- MIUR PRIN 2007: “ Mantle heterogeneity and geodynamic evolution of the lithosphere-aesthenosphere system”
- PNRA 2004/4.06: “Zonazione dinamica e cronologica dell’Orogene di Ross” (si allega documento).
- 2002 – Progetto: “Origin of the anorogenic magmatism with alkaline affinity of the Corsican batholith”

Responsible of the project:

- 2002/2003: MURST Progetto Giovani Ricercatori 2002, Università di Pavia - titolo del progetto “Origine e sviluppo del batolite Sardo-Corso”

Teaching activity

Since 2020-2021, holder lecturer of “Laboratorio per le Scienze della Terra”, Natural Sciences, University of Messina

Since 2020-2021, holder lecturer of “Fundamentals and Applications of Petrology”, Geophysical Sciences for Seismic Risk, University of Messina

2016-2017 to 2019-2020, holder lecturer of “Petrography”, Geological Sciences, University of Messina

2019-2020, holder lecturer of “Applied Petrography”, Geophysical Sciences for Seismic Risk, University of Messina

2014-2015 and 2016-2017: holder lecturer of “Petrography and Geology of crystalline basement” for the first level degree course, Geological Sciences, University of Messina

2011-2012 and 2012-2013: “Petrochemistry” at undergraduate level, at the University of Messina,

October 2002 - June 2011: tutor of students of the undergraduate courses of “Petrography”, “Petrographic Microscopy Laboratory”, “Crystalline Basements” and “ Introduction to Mineralogy and Petrography” at the University of Pavia

She has trained several master theses in Geological Sciences and Natural and Environmental Sciences

Editorial activity

Reviewer for international magazines (Lithos, Contributions to Mineralogy and Petrology, Journal of Petrology, GSA Special Paper, Scientific Reports, Comptes Rendus Geoscience, Ofioliti), European Journal of Mineralogy

Scientific Awards

2005 - Award “Tesi di Dottorato” assigned by Società Italiana di Mineralogia e Petrologia (SIMP)