

Curriculum vitae et studiorum

Porreca Massimiliano

born in Atripalda (Avellino - Italy), March 21, 1975

Actual position: Lecturer

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Education and Professional Career

2014-2021: Lecturer in Structural Geology at the University of Perugia

2012-2014: Researcher at the Istituto di Geofisica e Vulcanologia (INGV-L'Aquila)

2009-2012: Post-Doc at the University of the Azores (Portugal)

2005-2009: Post-Doc at the University of Roma Tre

2004: Ph.D. in Geophysics at the University of Bologna

2000: Degree in Geology, University of Roma Tre

Research Methodology

- Geological mapping
- Structural Geology
- Petroleum Geology
- Seismic interpretation
- Structural modelling
- Paleomagnetism
- Magnetic fabric
- Rock magnetism
- Physical Volcanology
- Planet Geology

Areas of interest

Evolution of back-arc basin in Mediterranean area

Study of magnetic fabric in volcanic rocks and weakly deformed sediments

Definition of eruptive mechanisms and emplacement processes of pyroclastic flows

Tectonic evolution of Thyrrenian-Apennine system

Seisnotectonic of the Apennines

Researches in sedimentary areas

Apennines (Italy)
Mts Iblei (Italy)
Betic chain (Spain)
Rif Chain (Morocco)
Ankara basin (Turkey)
Northwestern Andes (Argentina)

Researches in volcanic areas:

Colli Albani
Vesuvius
Stromboli
Cimini
Cerro Galan, Tuzgle (Argentina)
Cerro Blanco (Argentina)
Cabo de Gata (Spain)
Azores Islands (Portugal)
Altafjordur (Eastern Iceland)

Research Projects

2019-2022: Centro Ricerche Innovative per lo Spazio dell'Università degli Studi di Perugia – CRISP (ASI-UniPg; Resp. B. Bertucci)

2016-2019: Seismic interpretation and subsurface geology of the area affected by the 2016-2017 central Italy seismic sequence (M. Porreca)

2012-2014: MegaHazard2: Largescale mass-wasting events in the geological evolution of the Azores islands: location, frequency mechanisms and consequences (Resp. F. Marques)

2010-2013: Holocene and Pleistocene recovery of geomagnetic secular variation in the North Atlantic (Azores and Cape-Verde archipelagos and Portugal mainland): Geomagnetic and volcanological implications. FCT Project (Portugal) (PI: P. Silva)

2009-2013: Uplift movements in the Western Mediterranean sea during the Miocene-Pliocene transition (prof. M. Mattei and Dr. C. Soriano), in the framework of program "Azione Integrata Italia-Spagna" MIUR-Ministerio de Educatiòn y Ciencia

2009-2010: Recent volcanic evolution of Cerro Blanco volcanic complex (Argentina), bilateral action CNR (Italy)-CONICET (Argentina) (Dr. G. Groppelli, Prof. J. Viramonte).

2009-2013: Caratteri tettono-magmatici di margini di placca divergenti. (V. Acocella). Prin2009.

2009-2012: Eruptive mechanisms and emplacement processes related to the caldera collapsing eruptions: the case of Sete Cidades volcano" in the framework of the research program "Eruptive dynamics of the Azorean volcanism: analysis of the past to understand the future". University of Azores (M. Porreca).

- 2008-2010: “The formation of the western Mediterranean arcs and slab windows: relationships with the Neogene volcanism”, in the framework of program PRIN-2008 (Prof. M. Mattei).
- 2007: Caldera types and types ignimbrite, Dr G. Giordano and prof. R. Cas, in the framework of the IUGG Perugia 2007 conference.
- 2006-2009: The eruption, emplacement and characteristics of extremely large volume pyroclastic flow deposits (Andes, South America), (Prof. R. Cas, Australia), funded by Australian Research Council (ARC) (DP0663560).
- 2005-2007: The volcanic magma structure and the feeding system (prof. M. Mattei), funded by INGV-GNV.
- 2005-2006: Definition of the conditions leading to the development of the fracture field of the 2002-2003 crisis along the Panarea-Stromboli axis (Panarea), funded by INGV.
- 2005: Paleomagnetic study on the Pliocene lacustrine Valle del Salto (Central Apennines) (prof. L. Sadori), funded by National Geological Service (APAT) and University Roma La Sapienza.
- 2004: Magnetostratigraphic study of the Plio-Pleistocene M. Mario sequence (Rome) (prof. R. Funicello) during excavations of Monte Mario tunnel (Galleria Giovanni XXIII), funded by Astaldi.
- 2003-2005: Geological survey and mapping for the Italian Geological Map, Sheet n. 375, scale 1:50.000 (Tivoli) (prof. M. Parotto), in the framework of the Geological Map of Italy (CARG project).
- 2003-2005: Imaging the western Mediterranean margins: a key target to understand the interaction between deep and shallow processes (WESTMED) (prof. M. Mattei) (ESF).
- 2001: “Volcanic risk of Colli Albani region (Lazio, central Italy)” (prof. R. Funicello), funded by the Civil Protection.

Publications and Supervisor of theses

Author and co-author of 64 publications published to peer-reviewed scientific journals and 120 presentations at national and international conferences.

Editor of three Special Issues on Paleomagnetism, Cabo de Gata volcanic area and Seismotectonics.

Teaching and Tutoring

Teacher of the Course in Petroleum Geology since 2014.

Tutor of 32 Master degree and 12 Bachelor degree theses; tutor of 3 PhD projects in Volcanology, Paleomagnetism and Seismotectonics.