Paola Cianfarra

Fixed-term assistant professor

paola.cianfarra@unige.it

Education and training

2006

PhD in Geodynamics

The tectonic origin of the Antarctic Subglacial lakes in the Vostok-Dome C region East Antarctic craton

Roma Tre University - Rome - IT

2002

Master Degree in Earth Sciences

Caratterizzazione sismotettonica dell'Appennino umbro marchigiano da dati morfotettonici a scala sintetica - 110/110 e lode

Roma Tre University - Rome - IT

Academic experience

2019 - ONGOING

Lecturer in Structural Geology (Ricercatore a Tempo determinato (Legge 240/2010 art. 4 comma 3 lettera A)

University of Genova - Genova - IT

Research and didactic activity (lecturer of Geodynamics 6 CFU and co-lecturer of Field Mapping for Master degree in Geology)

2017 - 2019

Research Fellowship

Roma Tre University - Rome - IT

Principal Investigator of the research project G-IDEA (Geodynamics and Ice Dynamics in the East Antarctica) funded by PNRA (L. 380/91 D.D. 651/5 Aprile 2016) (Italian National Research Program). Didactic activity (Lecturer of the Remote Sensing course for Master Degree in Geology

2016 - 2017

Research Fellowship

Roma Tre University - Rome - IT

Modeling of the crustal tectonic evolution of key areas on our planet and their comparison with other bodies in the Solar System. Didactic activity (Lecturer of the Remote Sensing course for Master Degree in Geology

2011 - 2016

Lecturer in Structural Geology (Ricercatore a Tempo determinato Legge 230/2005 art. 1 comma 14)

Roma Tre University - Rome - IT

Research subject Studies on the geodynamics and regional tectonics of cratonic and marginal areas with dynamic and kinematic numerical methodologies and through the interpretation of geophysical data and synthetic scaled images including digital elevation models and satellite images. Didactic activity (Lecturer of the Remote Sensing course for Master Degree in Geology)

2006 - 2011

Research Fellowship

Roma Tre University - Rome - IT

Research subject Geodynamic Evolution of the Central Sector of the East Antarctic Craton'. Didactic activity (Remote Sensing course)

Language skills

Italian	English
Mother tongue	Independent

mother tongue

Teaching activity

I performed teaching activities at Roma Tre University, Science Dept., from 2005 to 2019 by seminars, exercise classes, and teaching modules within the Remote Sensing, Structural Geology, Geodynamics, Petroleum Geology, Balanced Geological Cross Section and GIS classes for the Master Degree in “Geologia del Territorio e delle Risorse” (D.M. n. 270/2004), for the Bachelor Degree in Geological Sciences (D.M. n. 270/2004), and for Post-Graduate Master Degree in “GIS e Telerilevamento per la Pianificazione Geoambientale” (GIS and Remote Sensing applied to Geo-Environmental planning).

- Professor of the Geological Remote Sensing class in 2007/2008 and from 2011 to 2019 for the Master Degree in “Geologia del Territorio e delle Risorse” (D.M. n. 270/2004).
- Professor of Environmental Remote Sensing from 2006 to 2012 for the Post-Graduate Master Degree in “GIS e Telerilevamento per la Pianificazione Geoambientale” (GIS and Remote Sensing applied to Geo-Environmental planning).
-Structural geology professor at the multidisciplinary field camp (1 week) held in Dolomites, Eastern Italian Alps, for Geology Master Degree students from the a.a. 2014/2015 to a.a. 2018/2019
- Co-lecturer with Dott. PhD Marcos Roberto Pinheiro of the academic course “Neotectonic and Landform Development, (discipline FLG 5147, for a total of 120 hours and 8 credits) in the Post-Graduate Program in Physical Geography of the São Paulo University in the period 2017-2022 (starting from 14/03/2017).

In the academic year 2019-2020 at DISTAV, University of Genova, I have been

co-lecturer (with Prof. F. M. Elter) of the Geodynamic course (GEO/03, 6CFU) for the Master Degree in Geology. From the academic year 2020-21 I am lecturer of the Geodynamic course (SSD GEO/03, 6 CFU) and co-lecturer (with Prof. L. Federico) of the Advanced Field Mapping course (SSD GEO/03, 6 CFU) for the Master Degree in Geology.

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

I have been co-tutor of 2 PhD theses in Earth Science (XXIII and XXVIII cycle) on the evolution of fracturing associated to fault and fault-related foldings by classical structural geology and remote sensing approach and by original numerical modeling technique for the preparation of balanced cross sections.
Co-tutor of 1 PhD thesis in Planetology (XXXII cycle).

Research interests

My research activity is characterized by a multi-scalar and quantitative approach that include the integration of geophysical data with satellite/DEM images for multi- and inter-disciplinary studies related to: i) the evolution of the solid earth and terrestrial surface (structural geology, geodynamics, planetology with specific applications for seismic and volcanic risk assessment and mitigation); ii) the evolution of the astmophere (cryosphere-solid earth interaction, specifically in vulnerable areas such as the polar regions), of the hydrosphere (monitoring and assessment of the water resources); iii) exploration and investigation of the energy resources and their sustainable development (non-renewable resources, geothermal energy, research and development of energy resources respecting environments and ecosystems).

Grants

2020 - ONGOING

Lark (Linking the Rennick and Aviator Fault Kinematics by structural-geological methods coupled with thermochronology analyses)

MIUR/PNRA (Programma Nazionale Ricerche in Antartide) - IT
66800EUR - Participant

2016 - 2020

G-IDEA (Geo-Ice Dynamics of East Antarctica)

MIUR/PNRA (Programma Nazionale Ricerche in Antartide) - IT
115200EUR - Pricipal investigator

2018 - 2019

Neotectonica da Região da Serra de São Pedro e Arrendores/ Neotectonics of the São Pedro Ridge Region and Surroundings (Grant Process 2017/14791-0)
FAPESP São Paulo Research Foundation - BR - BR
1432520 Real (3884.85EUR) - Pricipal investigator

2017 - 2019
Geomorphological-Pedological Evolution of Cuesta Escarpment Foothills in the State of São Paulo (FAPESP Grant Process 2016/08722-3)
FAPESP São Paulo Research Foundation - BR - BR
109016.39 Real (29564.17EUR) - Participant

Editorial activity

- **Editor** of the Geofluid journal, Impact Factor 1.437, https://www.hindawi.com/journals/geofluids/
-**Topic Editor** of the Remote Sensing journal, **Impact Factor:** 4.118 (2018) ; 5-Year Impact Factor: 4.740 (2018)
https://www.mdpi.com/journal/remotesensing
-**Guest Editor** of the Special Issue entitled 'Landscape Evolution in tectonically active regions' of the ISI Geoscience journal (https://www.mdpi.com/journal/geosciences/special_issues/Landscape_Evolution_Tectonically)
- **Reviewer of ISI journals**: Remote Sensing; Geophysical Journal International; Geosphere; Arabian Journal of Geosciences; Journal of African Earth Sciences; Geosciences; The Cryosphere; Water; Cold Region Science and Technology, Brazilian Journal of Geology; Planetry and Space Science.
- **Reviewer** of research projects submitted for financing to the **Australian Antarctic Division**

Assignments abroad

Co-Lecturer with Dott. PhD Marcos Roberto Pinheiro of the course entitled “Neotectonic and Landform Development, (discipline FLG 5147, for a total of 120 hours, 8 credits) for the Post-Graduate Program in Physical Geography dell’Universidade de São Paulo. Period 2017-2022 (starting from 14/03/2017).

Other professional activities

Since 2006 I have been participating, also with the role of coordinator, to technical and scientific consulting activities in the framework of research projects funded by oil industry (First Calgary Petroleums Ltd and ENI Algeria; Petrobras, Brazil; ENI Norge, Norway; OMV, Austria). I have been co-leader of field trips organized for oil company personnel with scientific and didactic purposes. I collaborated in the preparation of theoretical and practical courses for training of Petrobras and ENI personnel on themes of fracturing, modeling of fracturing in oil reservoirs, and preparation of balanced geological cross sections.
In 2010 I was responsible and professor of the classes “Remote Sensing

applied to the evaluation of the Snow Water Equivalent" for the course "Previsione metereologica di montagna, elaborazione di bollettini neve e valutazione del rischio valanghe" at the non-academic institution Servizio della Protezione Civile (sezione Campochiaro-CB).
Supply professor of Mathematics and Science at the secondary school Istituto Comprensivo W. Mozart, Acilia (Roma) from 01/03/2006 to 17/03/2006. From 14/09/2006 to 14/02/2007 supply professor of Mathematics, Science and Informatics at the secondary school Istituto Comprensivo Via Beschi, Roma, where I was also responsible of the Computer Lab. Supply professor of Mathematics and Science from 28/10/2016 to 13/11/2016 at the secondary school Istituto Comprensivo Largo Volumnia, Roma. Supply professor of Mathematics and Science (from 15/09/2017 to 30/06/2018 and from 17/09/2018 to 30/06/2019) at the secondary school Istituto Comprensivo Marco Ulpio Traiano, Roma.