

EDUCATION AND TRAINING

2021: attained PH.D IN PHYSICS AND GEOLOGY – Università degli Studi di Perugia
Address S.N.C., Via Pascoli, Perugia

09/2015 – 09/2017

MSC IN GEOCHEMISTRY AND GEOMATERIALS – LMU - TUM

MSc degree for the program "Geomaterials and Geochemistry" at the faculty of Geosciences of LudwigMaximilians Universitaet (LMU) in Munich. The course was co-organized together with the Technische Universitaet of Munich (TUM).

Passed with grade 1.58 (very good).

EQF level 7

01/07/2018 – 05/07/2018 – München, Germany

PARTICIPANT OF MELTS, GLASSES, MAGMAS SCHOOL. – LMU

One week course with lab practice.

Address München, Germany

2016 – 2018

PARTICIPANT OF ROBEX SUMMER SCHOOL. – Jacobs University/DLR

I participated in 2016 to Robex summer school on Vulcano (Aeolian islands) for robotic exploration of extreme environments organized by Helmholtz Alliance.

In 2017 the school was rebooted by German Aerospace center and Jacobs University of Bremen.

2011 – 2015 – Perugia, Italy

BSC IN GEOLOGY – Università degli Studi di Perugia

Graduated from Bsc with grade 110/110 cum laude.

Address Perugia, Italy

EQF level 6

2005 – 2011 – Perugia, Italy

DIPLOMA SCIENTIFICO SUPERIORE – Liceo Scientifico G. Galilei

Scientific High school diploma with grade 88/100

Address Perugia, Italy

EQF level 4

WORK EXPERIENCE

31/05/2021 – 30/05/2022 – Perugi

RESEARCH FELLOW – UNIVERSITY OF PERUGIA

Investigation on identification techniques for geochemical compositions of planetary volcanic rocks for the

development of remote sensing via Cubesat.

09/2017 – 06/2021

PHD STUDENT – UNIVERSITÀ DEGLI STUDI DI PERUGIA

Student of the XXXIII cycle of The University of Perugia at the Department for Physics and Geology, in the scientific fields of Igneous Petrology and Planetary geology. Title of the Thesis: Experimental petrology and volcanology for deciphering extraterrestrial volcanism.

03/2020 – 02/2022

SOCIAL MEDIA EDITOR – SIMP - SOCIETÀ ITALIANA DI MINERALOGIA E PETROGRAFIA

Member of the Communication Board of the Italian Society for the Mineralogy and Petrography. Main tasks comprised the content creation for the official Social Media of the society.

2014 – 2017 – Munich, Germany SCIENTIFIC ASSISTANT AND ADMINISTRATION ASSISTANT – LMU - LUDWIG-MAXIMILIANSUNIVERSITÄT MÜNCHEN Several HiWi contracts at the LMU Ludwig-Maximilians-Universität München:

Administration assistant: as assistant of a project manager I mainly worked in the bookkeeping of European projects.

In the organization board of PoV 2017: "Physics of volcanoes" conference of the community of volcanologists working in German institutions.

Scientific assistant with "Studi_Forscht" grant for Msc students as responsible of Raman measurements on silicate glasses.

Scientific assistant with "Studi_Forscht" grant for Msc students as responsible of Field work and sample collection in Santorini.

Address München, Germany

2015 – 2017

FIELDWORK ASSISTANT – BACIO III/IV MULTIPARAMETRIC FIELD WORK IN STROMBOLI. (LMU TEAM)

I participated at the third and fourth editions of BACIO campaign, respectively in May 2016 and October 2017. The campaign was organized by INGV aiming at syn-eruptive data collection in Stromboli, Aeolian islands.

2017 – 2020

FIELDTRIP GUIDE FOR HIGH-SCHOOL STUDENTS – UNIVERSITÀ DEGLI STUDI DI PERUGIA I was employed within the National Project for the Scientific degrees (www.pianolaureescientifiche.it) as a guide for lab and field trips for High school students. The project comprised ca. 20 field trips in the Volcanic areas of Central Italy and ca. 25 workshops at the Department for Physics and Geology of the University of Perugia.

25/11/2021 – Perugia, Italy ORGANIZER OF THE WORKSHOP: "NEW PERSPECTIVES FOR PLANETARY EXPLORATION WORKSHOP" – DEPARTMENT FOR PHYSICS AND GEOLOGY, UNIVERSITY OF PERUGIA, UNDER ASIUNIPG AGREEMENT In the framework of the Unipg-ASI (Italian Space Agency) agreement (CRISP) I organized a workshop convening all the excellences of planetary exploration in the Italian-speaking community.

PEER-REVIEWED PUBLICATIONS

- *Visible and near-InfraRed (VNIR) reflectance of silicate glasses: Characterization of a featureless spectrum and implications for planetary geology.* Icarus, 374, 114801.
- *Retrieving magma composition from TIR spectra: implications for terrestrial planets investigations.* Scientific reports, 9(1), 1-13.
- *Rheological evolution of eruptible Basaltic-Andesite Magmas under dynamic conditions: The importance of plagioclase growth rates.* Journal of Volcanology and Geothermal Research, 420, 107411.
- *Field investigation of volcanic deposits on Vulcano, Italy using a handheld laser-induced breakdown spectroscopy instrument.* Spectrochimica Acta Part B: Atomic Spectroscopy, 177, 106067.
- *Cooling history and emplacement of a pyroxenitic lava as proxy for understanding Martian lava flows.* Scientific reports, 9(1), 1-7.
- *Viscosity of Pyroxenite Melt and its Evolution during Cooling.* Journal of Geophysical Research: Planets.
- *Pyroclastic deposits and eruptive heterogeneity of Volcán Antuco (37° S; Southern Andes) during the Mid to Late Holocene (< 7.2 ka).* Journal of Volcanology and Geothermal Research, 392, 106759.