

PERSONAL INFORMATION

Veronica Camplone



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📅 Date of birth 13 Nov 1991 | 🇮🇹 Nationality Italian

STUDIES APPLIED FOR

Prograduate Specialization in "Space Institutions e Policies" and Master's Degree in Geological Science and Technologies

WORK EXPERIENCE

1 Nov 2018–30 Apr 2019

Stage-Researcher

Italian Space Agency (ASI); Leader and tutor: dott. ssa Negri Barbara, dott. Sindoni Giuseppe, Roma (Italia), Roma (Italia)

www.asi.it/

- Remote sensing (visible and infrared cameras and spectrometers) data analysis;
- Informative territorial system (GIS) management;
- Identification and characterization of landing sites on Mars surface;
- Support and collaboration in the management of ASI-INAF agreements (i.e. Study Activity for the scientific community for Solar System and Exoplanets; ExoMars_MA_MISS- Scientific activity Phase E);
- Support to ASI - ESERO activity for the "Living Planet Symposium" 2019;

1 Jun 2018–30 Sep 2018

Fixed Term Position as Geologist

TechnoSoil Srl - dott. geol. Silvio Cavallucci & dott. geol. Eustachio Pietromartire
Via Fonte Vecchia, 4, 65010 Spoltore (PE) (Italy)

- Geological report of the whole Italian area;
- Informative territorial system (GIS) management (e.g. DEM topographic, Slope data, etc.);
- Production of geologic sections and stratigraphic columns with the AutoCAD tool;
- Analysis of ISPRA and PAI maps (i.e. geological, geomorphological, hazard and risk);
- Geognostic and geophysical tests in situ;
- Support to management activities;

7 Mar 2016–21 Mar 2016

Stage as Geologist

Ibn Battuta Centre by EuroPlanet - IRSPS (International Research School of Planetary Sciences) spin-off, Marrakech (Morocco)
ibnbattutacentre.org | irsps.it | europlanet-eu.org

- Geological measurement campaign in Merzouga desert area for EXO.MARS 2016 and EXO.MARS 2020 with the research team of INAF, THALES ALENIA SPACE and ESA (European Space Agency);
- Testing of the radar/altimeter that controls the lander EDL and the rover of EXO.MARS

23 Feb 2016–30 Jan 2017

Stage as Geologist

Res.Gea Srl, Geomatic Solutions, Spin-off Università "G. d'Annunzio" - dott. Giuseppe Pomposo
Via dei Vestini, 31, 66100 Chieti (Italy)
resgea.com

- Remote sensing data analysis;
- Production of cadastral map of Ponza Island;
- Informative territorial systems (GIS) management;
- Environmental monitoring;

1 Jul 2015–31 May 2016

Stage as Geologist

TechnoSoil Srl dott. geol. Silvio Cavallucci & dott. geol. Eustachio Pietromartire, Spoltore (Italia), Spoltore (Italy)

- Geological report of the whole Italian area;
- Informative territorial system (GIS) management (e.g. DEM topographic, Slope data, etc.);
- Production of geologic sections and stratigraphic columns with the AutoCAD tool;
- Analysis of ISPRA and PAI maps (i.e. geological, geomorphological, hazard and risk);
- Geognostic and geophysical tests in situ;
- Support to management activities;
- Hydrogeology;
- Seismic risk;

1 Jan 2013–31 Jul 2013

Stage as Geologist

dott. geol. Luciano Sbarbaglia, Pescara (Italy)

- Geological report of the whole Abruzzo area;
- Geognostic and geophysical tests in situ;

EDUCATION AND TRAINING

15 Jul 2019–25 Jul 2019

Summer School

EQF level 7

Austrian Research Promotion Agency and European space agency, Alpbach/Tyrol (Austria)

Partecipation in the Summer School Alpbach 2019 as a member of a dedicateted student team, to the scientific and technical definition and preliminary design of a possible future satellite mission to observe the magnetic and gravitational field of the Earth from space.

Name of mission: GRAVL (Gravity observations by Verical Laser ranging)

12 Feb 2018–17 Jul 2018

Prograduate Specialization in "Space Institutions e Policies"

EQF level 8

SIOI (Italian Society for International Organization); ASI (Italian Space Agency), Roma (Italia)

Piazza San Marco, 51, 00186 Roma (Italy)

sioi.org - asi.it

Program:

- Technical – Scientific module

Coordinator: *dott. Enrico Flamini from Agenzia Spaziale Italiana - ASI*

- Legal – Institutional module

Coordinators: *Prof. Sergio Marchisio, Chairman of European Center for Space Law (ECSL) of ESA and Dr.ssa Viviana Iavicoli, PhD ISGI - CNR*

- Politics and international relations module

Coordinator: *Dr.ssa Gabriella Arrigo, International relations unit supervisor of Agenzia Spaziale Italiana - ASI*

- Socio - economic module

Coordinator: *Dr.ssa Delfina Bertolotto, Technical Management Support unit supervisor of Agenzia Spaziale Italiana - ASI central directorate*

- Industrial module

Coordinator: *Ing. Armando Tempesta, Institutional Relations with ASI - Thales Alenia Space*

1 Oct 2014–20 Dec 2017

Master's Degree in Geological Science and Technologies - LM74

EQF level 7 Grade:
110/110

University of "G. d'Annunzio", Chieti (Italy)

INGEO – *Engineering and Geology Department*

Exams taken:

- *Sedimentary basins and succession;*
- *Structural geology;*
- *Regional tectonics;*
- *Geomorphological survey and mapping;*
- *Applied geology and hydrogeology;*
- *Mineralogy and Petrography*
- *Topography and Informative territorial systems (GIS)*

Academic path orientation:

- Resources (Stratigraphic survey; interpretation of seismic lines)
- Planetary Geology (Comparative Sedimentary Geology; Planetary Geology, Remote sensing; Extreme Geological events on Earth and Planetary bodies; Solar System Exploration)

Field of application:

- Identification and characterization of LANDING SITES on Mars surface;
- Geological and Stratigraphic survey;
- Remote sensing (Earth and Planets: visible and infrared cameras and spectrometers);
- Sedimentology, stratigraphy and hydrology on Earth and Mars (erosional and depositional cycle of terrestrial planets);
- Seismic lines interpretation;

DISSERTATION about *Comparative Sedimentary Geology:*

"Morphological analysis of the Saharan paleo-rivers of Algeria and eastern Morocco"

Advisor prof. geol. Gian Gabriele Ori

1 Oct 2010–16 Jul 2014

Bachelor's degree in Geological Science - L34

EQF level 6

University of "G. d'Annunzio", Chieti (Italy)

INGEO – Engineering and Geology department

Field of application:

- geomatic cartography; detection of geological hazards; geological risk analysis; geological interventions in the prevention and emergency phase for safety purposes; geognostic investigations and exploration of the subsoil with direct investigations, mechanical methods and simple geophysical methods; analysis and certification of geological materials; environmental impact assessment relating to geological aspects, topographic surveys; testing and analysis of geotechnical laboratory

DISSERTATION about Physical geography and Cartography:

“Analysis of the glacial scenery of the Svalbard Islands compared with the Central Apennines (Majella)”

Advisor prof. geol. Enrico Miccadei

1 Feb 2018–15 Jul 2018

Certificate of Teacher Training Path (24CFU)

EQF level 8

University degli Studi "G. d'Annunzio", Pescara (Italy)

Program:

- Cultural Antropology;
- Psychology of teaching-learning processes in schools;
- Methodologies and Inclusive Educational Technologies and Evaluation of Training Process;

Aimed at insertion of Concorso Nazionale per la funzione di Docente

1 Sep 2005–15 Jun 2010

Scientific High School Diploma

EQF level 4

Liceo Scientifico Statale "Galileo Galilei", Pescara (Italia), Pescara (Italy)

Maths and physics experimental orientation

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Strong aptitude for contact and exchange in cultural and professional matters gained in numerous workshops and multidisciplinary projects;
- Comprehensive temperament, high capacity for concentration, listening and understanding of collective issues;

Organisational / managerial skills

- Good organizational skills and working group attitude;
- Research team leadership in the logistic management of human resources and in the assignment of specific tasks gained in the expeditions and in university research projects within the EXO.MARS;
- Easy insertion in discussions and in organized team projects as demonstrated by the numerous collaborations;

Job-related skills

MAIN:

- Expertise in geological analysis
- Expertise in geomorphological analysis
- Expertise in seismic analysis
- Expertise in remote sensing
- Expertise in execution of in situ investigations
- Expertise in geological and stratigraphic survey
- Expertise in geophysical surveys data processing

GEOLOGICAL ANALYSIS:

- Geological-structural survey
- Geomorphological survey
- Hydrogeological study
- Geological relation
- Hydrogeological relationship
- Groundwater monitoring
- Suction test
- Absorption test
- Environmental sampling of water and soil matrices
- Chemical laboratory analysis
- GPS topographic survey
- 3D photogrammetric survey
- CAD and GIS mapping
- Digital terrain model

IN SITU INVESTIGATIONS:

- Geognostic survey
- Dynamic penetrometric test (DPM, DPSH)
- Static penetrometric test (CPT, CPTU, CPTe)
- Dilatometric test
- Inclinator test
- Slope stability analysis
- Verification of geotechnical works
- Analysis and monitoring of damaged buildings
- Laboratory geotechnical tests

GEOPHYSICAL SURVEYS DATA PROCESSING:

- Seismic refraction
- 2D and 3D seismic tomography
- Downhole
- Crosshole
- MASW
- HVSr

REMOTE SENSING: Data analysis

Earth:

- Landsat 7
- Landsat 8
- Sentinel
- Digital Elevation (Aster, GTOPO30, SRTM etc..)
- COSMO-SkyMed

Mars: visible data

- Context Camera (CTX/MRO)
- High Resolution Imaging Science Experiment (HiRISE/MRO)
- Mars Orbiter Camera (MOC/MGS)
- High Resolution Stereo Camera (HRSC/MEX)
- Colour and Stereo Surface Imaging System (CaSSIS/TGO)

Mars: infrared spectrometry data

- Observatoire pour la Minéralogie, l'Eau, les Glaces et l'Activité (OMEGA/MEX)
- Compact Reconnaissance Imaging Spectrometer for Mars (CRISM/MRO)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Basic user	Independent user

Digital skills - Self-assessment grid

Digital skills - Self-assessment grid

- Good knowledge of office suite tools (word processor, electronic sheet, presentation software) and in particular of the MS Office packages and LibreOffice;
- Good knowledge of the software for professional use: Google Earth, Google Mars; GIS (Geographic Information System), ArcMap, AutoCAD, MOVE, Canvas, Illustrator

Driving licence B

ADDITIONAL INFORMATION

Projects

- Supervision of a project “Study of Martian landing sites” with collaboration of ASI and Inaf;
- Support to ASI – ESERO (European Space Education Resource Office) activity for the “Living Planet Symposium” 2019;
- Participation of Data Analysis line Manager for “Study Activity for the scientific community for Solar System and Exoplanets”

Presentations

- **V. Camplone**, G. Sindoni, B. Negri, E. Ammannito, F. Altieri, F.G. Carrozzo, G. Cremonese, M. Pajola, S. Pirrotta, A. Zinzi, 2019. *Identification characterization of possible Martian landing sites*. XV Congresso di Scienze planetarie, 4-8 Febbraio 2019, Firenze.
- **V. Camplone** et al; "GRAVL (Gravity observations by Vertical Laser ranging)" Team Green, Alpbach Summer School 2019 July 16–25, Alpbach/Tyrol — Austria
- **V. Camplone** "Realization of tectonic and geologic map with use of Landsat images of Iran (Albortz Monts and Zagros Monts)"
- **V. Camplone** "*Seismic interpretation of the Inner Moray Firth Northern sea*"
- **V. Camplone** "*Analysis of the glacial and fluvial erosion forms on the Martian surface compared to the glacial forms present on Earth with a focus on the deglaciation that is affecting our planet*"

Publications

IN PROGRESS:

- G.G Ori, **V. Camplone**, *Realization of the map of the paleo-rivers present in the Sahara Desert*; Geological Society of America [geosociety.org]
- G.G Ori, **V. Camplone**, *Dry Periods and wet periods of the Sahara Desert in relation to the surface of Mars*; Astrobiology Magazine [astrobio.net]
- **V. Camplone** et al., *Identification and characterization of possible Martian landing sites*

Certifications

- 16/18 Mag. 18
GIS Open Source Course – ADVANCED [24 h] - Res.Gea Srl, Chieti - [Res.Gea WebSite](#)
- 20/28 Apr. 16
Worker Training Risk [12 h] University of "G. d'Annunzio" - Chieti
- 1 Feb. 11
English language Idoneity Lingua - University of "G. d'Annunzio" - Chieti

Field trips / Hands-on learning experience

- 1/02/14 Field activities in **Marocco** "*Exploration and field activities to prepare and execute tests of rovers, landing systems, instruments and operations related to the exploration of Mars and Moon*"
- 7/03/16 Field activities in **Marocco** "*Geological measurement campaign in Merzouga desert area for EXO.MARS 2016 and EXO.MARS 2020*"
- 4/07/16 Stratigraphic survey in Artotenda area, Parnaso (**Greece** oriental) "*Stratigraphic reconstruction of the area of Mount Parnassus*"

Seminars 16 Apr. 19

"Più Spazio per il Project Management" Più Project Management per lo Spazio
Project Management Institute (PMI) - Agenzia Spaziale Italiana (ASI)

Teaching Experiences

Private extracurricular lessons, one to one and/or small classes Scholastic study help for middle and high schools students; subjects:

- Maths
- Physics
- Earth science
- Biology
- Chemistry
- Italian
- Latin

References

Reference are available upon request.

I authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003, n. 196
"Code regarding the protection of personal data.

Pescara, Italy, 27/09/2019

SIGNATURE

Veronica Camplone

