Curriculum Vitae et Studiorum

Name and surname	**Andrea Pacifici**
Address	**Via Altogradi 1, Lucca , 55100 (LU)**
Telephone	**+39 328 0991808**
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E-mail	**pacifici@gmail.com**
Country	Italy
Borne date	1972 – 06 – 20

Work Experience

July 2009 – Present

Name and address of employer	IRSPS s.r.l. - Pescara (Italy)
Type of business or sector	Development of concepts and technologies for the exploration of Planets and the Earth
Occupation or position held	Senior Geologist Consultant
Main activities and responsibilities	Project scientist and responsible of Geographic Information System (GIS and WebGIS) of ETSA project (Environmental Terrain Support Analysis) for the European Space Agency ExoMars 2016 and ExoMars 2020 missions. Analysis, integration and interpretation of landing sites data and realization of the Landing Site Geological and Geomorphological Maps.

July 2007 - Present

Name and address of employer	Andrea Pacifici, Via Altogradi, 1, Lucca – 55100 - Lu (Italy)
Type of business or sector	Engineering and Environmental geology
Occupation or position	Geologist free-lance

held	
Main activities and responsibilities	Geological and Geo-thecnical analyses for civil engineering. Satellite and airborne data analysis trough Geographic Information System and Remote-Sensing software. Analysis and mapping for geology, geomorphology, urban areas and environment.

January 2009 – May 2009

Name and address of employer	Università d'Annunzio, Chieti – Pescara (Italy)
Type of business or sector	University
Occupation or position held	Lecturer
Main activities and responsibilities	Lecturer for "Introduction GIS" in the Geological Science course.

December 2007 – July 2009

Name and address of employer	International Research School of Planetary Sciences Università d'Annunzio, Chieti - Pescara
Type of business or sector	University
Occupation or position held	Research fellow
Main activities and responsibilities	Geological analysis of selected areas of Mars and terrestrial analogs – Remote sensing data analysis – Member of international scientific missions as GIS specialist.

Education and training

November 2003 – May 2007

• Name and type of organization providing education and training	International Research School of Planetary Sciences Università d'Annunzio, Chieti - Pescara
• Principal subjects/occupational skills covered	European PhD in Planetary Sciences and Esobiology. Geology of Mars and comparison with terrestrial analogs by mean of remote-sensing data – Processing and analysis of remote-sensing data for geological analysis and mapping.

• Title of qualification awarded	European PhD. Thesis title (translated): "Geomorphological analysis of Ares Vallis region (Mars) through high-resolution images".
	November 2004
• Name and type of organization providing education and training	Università d'Annunzio, Chieti – Pescara
• Principal subjects/occupational skills covered	Government exam and license as a profession geologist.
• Title of qualification awarded	License as professional geologist.
	1991 - 2003
• Name and type of organization providing education and training	Università di Pisa
• Principal subjects/occupational skills covered	Geological Sciences
• Title of qualification awarded	Degree in Geological Sciences. Thesis title (translated): "Geomorphological analysis of the Charitum Montes area (Mars) through remote-sensing data of Mars Global Surveyor (NASA, JPL) mission".
• Level in national classification	102/110

Personal Skills and competences

Mother tongue	**Italian**
Other language	**English**
• Reading	Good
• Writing	Good
• Speaking	Good

other language	**French**
• Reading	Scholastic
• Writing	Scholastic
• Speaking	Scholastic

Computer skills	Excellent knowledge of Windows, Mac and Linux OS, and Microsoft Office e Open Office suites. I prefer using open-source software. Excellent knowledge of techniques, procedures and software for Geographical Information System and Remote-Sensing data analysis. Software mainly utilized: QuantumGIS, GRASS, SAGA, ENVI, ArcGIS Desktop, ISIS, VICAR, as well as libraries Proj4 and GDAL. High confidence with several kind of space-borne remote-sensed data (HR e VHR images, Multi-spectral and Hyper-spectral data, radar altimetry data, digital terrain models, etc.). Good knowledge of software for dissemination of maps on-line (MapServer, p.mapper and Qgis-Server). Good knowledge of software for image manipulation (Gimp, Photoshop) and vector graphic (Inkscape, Canvas, Illustrator). Good knowledge of HTML e Linux Shell languages.
Communication skills	Good communication skills gained as member of international research teams and freelance geologist. I attended at several international meeting and congress, with oral and poster presentations.
Organizational / managerial skills	Good organizational skills gained as freelance and consultant geologist. In the past I spent more than 10 years as civil protection volunteer as telecommunication specialist, acquiring good skills in organization, communication and team-leading.
Driving license	B.

Additional information

Selected publications	- Geomorphological map of Ares Vallis, Mars. ASI Map Planetary Series – Map n°1. Pacifici A. Boll. Soc. Geol. It. (Ital. J. Geosci.) , 127, No. 1, 75-92 (2008). - Note, Geomorphological evidence of water level changes in

Nepenthes Mensae, Mars. de Pablo M.A., Pacifici A., Icarus, 196, 667-671 (2008).
- The Argentinean Patagonia and the Martian landscape. Pacifici A. Planetary and Space science, 57, 571-578 (2009).
- Geological evolution of Ares Vallis on Mars: Formation by multiple events of catastrophic flooding, glacial and periglacial processes. Pacifici A., Komatsu G., Pondrelli, M. Icarus, Vol: 202, Issue: 1 (2009).
- Channel-scale erosional bedforms in bedrock and in loose granular material: character, processes and implications. Carling P. A., Herget J., Lanz J. K., Richardson K., Pacifici A. In Megaflooding on Earth and Mars, ed. by Devon M. Burr, Paul C. Carling and Victor R. Baker. Cambridge University Press (2009).
- Dark aeolian sediments in Martian craters: Composition and sources. Tirsch D., Jaumann R., Pacifici A. and Poulet F. Journal of Geophysical Research, vol. 116, E03002 (2011).
- Quantifying geological processes on Mars -Results of the high resolution stereocamera (HRSC) on Mars Express. R. Jaumann et al. - Planetary and Space Science112 (2015) 53–97.

Scientific journals peer review referee

- Planetary and Space Science
- Acta Carsologica,
- Geophysical Research Letters.
- Advances in Space Research