

CURRICULUM VITAE ENGLISH

PERSONAL DATA



MARIA SILEO

December 11, 1980

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Technologist – Geologist - PhD in Earth Sciences

Potenza

PROFESSIONAL PROFILE

EDUCATION AND DEGREES AWARDED

- Specialist degree in " Geoenvironmental Prospecting and Monitoring" (Class of advanced degrees in Geological Sciences 86/S of the DM 28/11/2000 under DM 509/99) at the University of Basilicata, Faculty of Science MM.FF.NN., with a final vote of 110/110, conferred on 28/09/2006.
- Authorization to practice as a Geologist sect. A, 07/02/2007.
- PhD in "Earth Sciences", Scientific-Disciplinary Sector "Geo/09 - Mining Earth Resources and mineralogical-petrographic applications for the environment and for cultural heritage." PhD degree conferred on 02/03/2012 by the Doctoral School of Earth Sciences cycle XXIV.

PROFESSIONAL EXPERIENCE

- **Participation in national and international research projects at relevant Universities and Research Institutes**
- Supervisor and coordinator of research activities and training: Project acronym: ATHENA Project: Remote Sensing Science Center for Cultural Heritage; financed by H2020-TWINN-2015 program - Grant

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Agreement n. 691936. Responsibility and coordination of research and training activities related to diagnostics and applied geophysics in archeology. IBAM-CNR-IBAM PROT. N. 0000859 DEL 07/03/2016.

- Supervisor and coordinator of research activities: Bilateral Highly relevant Project PGR00189 "Remote sensing technologies applied to the management of natural and cultural heritage in site located in Italy and Argentina. Risk monitoring and mitigation strategies". Responsibility and coordination of research activities related to geophysics, and geology applied in archeology and cultural heritage
- Research activity during the scientific mission from 21 to 29 August 2016 in Puerto Iguazu, Posadas, Argentina.
- Research activities in the International Mission - AGREEMENT CNR/ACAC, Bilateral project IBAM-CNR and University of Cartagena "Technologies and diagnostic instruments and conservation of fortified settlements of Cartagena de Indias (COL) and Acaia (ITA)" - Scientific Mission in Cartagena for diagnostic surveys and investigations in the *Ciudad Amurallada* (from 04/06/2016 to 14/06/2016 and from 04/02/2017 to 09/02/2017).
- Research activities in the Italy-China International Mission - Archeogeophysics surveys in the archaeological sites of Zhengzhou and Luoyang. Beijing, China. (From 13 to 23 November 2015).
- Research activities in the ITACA International Mission - topographic and archeogeophysics surveys in the archaeological sites of Pachacamac and Nasca in Peru, and in the archaeological site of Tiwanaku in Bolivia. (From June 2014 to September 2015)
- Technical Coordinator of diagnostic tests for the security work development of Regio VIII of Pompeii – video-endoscopic surveys, ground penetrating radar and sonic on the walls, laboratory tests on mortar samples. April 2015.
- Research activity in the SMART BASILICATA Project, (November 2015- today)
- Research activities within the Project PRO CULT - theme: "Innovative techniques for the monitoring of decay on architectural and monumental heritage". (October 2012 - March 2015).
- Research activities within the Project GEL Basilicata - theme: "minerarolgic-petrographic and physical characterization of stone material in cultural heritage, study of weathering and conservation issues, methodologies for the identification of ancient quarry". (February 2007 - October 2008).
- **Management and scientific coordination of national and international research projects**
- Organization of the 33rd Symposium Earsel 2013_Matera, Italy, June 3 to 7, 2013.
- Organization and report to the First International Workshop of the Project PRO_CULT "Cultural Heritage, between knowledge and monitoring - multi-scale Approaches and smart technologies." Potenza, Italy, October 4, 2013. Report Title: Low Cost Strategies for environmental monitoring and for the study of the material decay of Cultural Heritage.
- **Teaching assignment in high-level educational and training programmes (i.e thematic Summer Schools, Higher education Masters) at relevant national/international Universities and Research Institutes**
- Tutor in the First International School on GRSA 2016 - GEOPHYSICS AND REMOTE SENSING FOR ARCHAEOLOGY" Pompeii, 9-13 May 2016.

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PUBLICATIONS, PATENTS AND/OR OTHER RESEARCH OUTPUTS (*max 10 voci*)

1. Sileo M., Gizzi F.T., Masini N. (2017) – Low cost monitoring approach for the conservation of frescoes: the crypt of St. Francesco d'Assisi in Irsina (Basilicata, Southern Italy). *Journal of Cultural Heritage*. In Press. 11pp.
2. Liberatore D., Masini N., Sorrentino L., Racina V., Sileo M., AlShawa O., Frezza L. (2016) – Static penetration test for historical masonry mortar. *Construction & Building Materials*. In Press_ Impact Factor: 2.421 doi:10.1016/j.conbuildmat.2016.07.097
3. Lasaponara R., Masini N., Pecci A., Perciante F., Pozzi Escot D., Rizzo E., Scavone M., Sileo M. 2016b - Qualitative evaluation of COSMO SkyMed in the detection of earthen archaeological remains: the case of Pachamacac (Peru)", *Journal of Cultural heritage*, 2016,in press.
4. Gizzi FT., Sileo M., Biscione M., Danese M., Alvarez de Buergo M., 2016 - The conservation state of the *Sassi of Matera* site (Southern Italy) and its correlation with the environmental conditions analysed through spatial analysis techniques. *Journal of Cultural Heritage* Volume 17, January–February 2016, Pages 61–7.
5. Leucci G., Sileo M., De Giorgi L. 2016 - High Frequency Sound Waves as Function of the Density and Water Content: Experimental Studies on Calcarene Stones of Southern Apulia. *International Journal of Engineering Research & Science* Vol-2, Issue-1,1-13.
6. Sileo M., Biscione M., Gizzi F. T., Masini N., Martinez-Garrido M. I. (2014) - Low cost strategies for the environmental monitoring of Cultural Heritage: preliminary data from the crypt of St. Francesco d'Assisi's, Irsina (Basilicata, Southern Italy). In "Science, Technology and Cultural Heritage". Edited by Miguel Angel Rogerio-Candelera, CRC Press 2014, pp. 27-34. Print ISBN: 978-1-138-02744-2.
7. Calia A, Sileo M., Matera L. (2014) - Provenance, characterization and decay of a porous calcarenite of the Puglia region ("Pietra Gentile"). London, Special Publication "Stone in Historic Buildings: Characterization and Performance", February 19, 2014; 24 pp. doi 10.1144/SP391.11.
8. Gizzi F.T., Potenza M.R., Sileo M. and Zotta C. (2014) – “Reconstructions, Transfers and Forced Abandonments brought about by earthquakes and landslides in the Historical Centres of Southern Italy: the role of primary sources”. In: *Engineering Geology for Society and Territory – Preservation of Cultural Heritage*, Vol 8, pp.453-475. Springer. ISBN: 978-3-319-09408-3, doi: 10.1007/978-3-319-09408-3.
9. Gizzi F.T., Biscione M., Danese M., Deufemia V., Masini M., Murgante B., Paolino L., Saulino N., Sileo M., Potenza M.R. (2013) - An App for smart and community-shared approaches to the safeguard of cultural heritage. In : *Proceedings of the 4th EARSeL Workshop on "Remote Sensing for Cultural Heritage"*, 6-7 June 2013 - Matera, Italy, pp 251-260.ISBN:9788889693254.
10. Calia A., Lettieri M., Leucci G., Matera L., Persico R., Sileo M. (2013) - The mosaic of the crypt of St. Nicholas in Bari (Italy): integrated GPR and laboratory diagnostic study. *Journal of Archaeological Science* 40 (2013) 4162-4169.