

BRIEF PRESENTATION

PERSONAL DATA



MARIA SILEO

December 11, 1980

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Research Fellow - 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

Fellowships at relevant national and international Universities and Research Institutes

- Research fellow for a period of 30 months -Project PRO CULT - theme: "Innovative techniques for monitoring of the material decay of the architectural and monumental heritage" (October 2012 - March 2015).

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- Research fellow for a period of 21 months - theme: Mineralogical-petrographic and physical characterization of stone materials of the cultural heritage, study of problems of alteration and preservation methods for the identification of ancient quarries (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.
- International mission -Participation to the topographical and archeogeophysical surveys in the archaeological site of Tiwanaku in Bolivia, June 8-16 in 2014.
- International mission - Participation to the topographical and archeogeophysical surveys in the archaeological site of Pachacamac in Peru, 1-10 December 2014.

PUBLICATIONS, PATENTS

- **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.
- 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.
- Gizzi F.T., **Sileo M.**, Biscione M., Danese M., Álvarez de Buergo M. (2014) -The "Sassi of Matera" site: preliminary results from the investigation on the weathering forms through on-field surveys and spatial analysis. In "Science, Technology and Cultural Heritage". Edited by Miguel Angel Rogerio-Candelera, CRC Press 2014, pp. 411-416. Print ISBN: 978-1-138-02744-2.
- Gizzi F.T., Liberatore D., Masini N., **Sileo M.**, Zotta C., Potenza M.R., Scavone M., Sorrentino L. (2014) - Building features and safeguard of church towers in Basilicata (Southern Italy). In "Science, Technology and Cultural Heritage". Edited by Miguel Angel Rogerio-Candelera, CRC Press 2014, pp. 369-374. Print ISBN: 978-1-138-02744-2.
- 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.

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- 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.
- Vasanelli E., **Sileo M.**, Calia A., Aiello M.A. (2013) -Non-destructive techniques to assess mechanical and physical properties of soft calcarenitic stones. Procedia Chemistry, Volume 8, 2013, Pages 35–44.
- 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.
- Calia A., Colangiuli D., Leucci G., Matera L., Lettieri M., Persico R., **Sileo M.** (2012) - Non – destructive and laboratory diagnostic study on the mosaic of the crypt of St. Nichola. 14th International Conference on Ground Penetrating Radar (GPR) (Bari, Italy).June 4-8, pp. 579-584, 2012, Shanghai, China . ISBN 978-1-4673-2663-6.
- Calia A., Leucci G., Masini N., Matera L., Persico R. and **Sileo M.** (2012) – Integrated prospecting in the crypt of the Basilica of Saint Nicholas in Bari, Italy. Journal of Geophysics and Engineering, 9, 271-281.

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