

BRIEF PRESENTATION

PERSONAL DATA



NICOLA MASINI

14 June 1965

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Senior Researcher - Engineer

Potenza

PROFESSIONAL PROFILE

EDUCATION AND DEGREES AWARDED

- Degree: Building Engineering

PROFESSIONAL EXPERIENCE

- **Teaching assignment, official high academic qualifications at relevant national and international Universities and Research Institutes**

- Lecturer: Science for Conservation and Restoration of Architectural Heritage – Faculty of engineering – Potenza (2011-14).

- Lecturer: of *Architectural Restoration*– Faculty of Architecture – Matera (2011-14).

- Visiting professor at Universidad Politecnica di Valencia (2014).

- **Management and scientific coordination of national and international research projects**

Scientific responsible of the following projects:

- Since 2008: Italian Mission of Heritage Conservation Science and Archaeogeophysics- ITACA in Peru

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(<http://www.archeo.it/scavi/missione-archeogeofisica-itaca>).

- 2006-07: Transnational cooperation ByHeriNet: “Byzantine Heritage Network: Rehabilitation, highlighting and management in the Eastern Mediterranean Basin”, in the framework of Archimed Interreg IIIB.
- 2013-15. Executive Programme for Scientific and Technological Cooperation between Italy and China of Italian Ministry of Foreign Affairs. Project entitled: “Smart management of cultural heritage sites in Italy and China: Earth Observation and pilot projects”. Chinese partner: Chinese Academy of Sciences – Center for Earth Observation and Digital Earth.
- 2012-15: project PRO-CULT: “Advanced methodological approaches and technologies for Protection and Security of Cultural Heritage” Funded by Operative Programme ERDF Basilicata (2007-2013). Partners: CNR-IBAM (lead partner), CSIC –IGE of Madrid (Spain), Adam Mickiewicz University of Poznan (Poland).
- 2011-12: Project of technological development of a tracking system of movable cultural heritage (Area Science Park di Trieste) funded by Progetto Basilicata Innovazione.
- 2006-07. Responsible of the agreement with Region of Basilicata within the European transnational cooperation project, PALAIS : *Patrimoine Architectural Locale t Aménagement Innovante et Stratégique*, in the framework of Interreg III C – Zone Sud.
- **Organization of Conference and Exhibitions**
 - Chairman of the I International EARSeL Workshop on “Remote Sensing for Archaeology and Cultural Heritage Management” (Roma, 30 september-4 october 2008).
 - Co-chairman of the 33rd EARSeL Symposium 2013 “Towards Horizon 2020: Earth Observation and Social Perspectives - Matera, 3-6 june, 2013.
 - Ho Chi Minh City (Vietnam), 24-27 June. Co-chairman del Workshop: “Remote sensing Data Analysis, modeling, interpretation and Applications: from a global view to a local analysis” nell’ambito della Conferenza ICCSA 2013.
 - Salvador de Bahia (Brasile), 18-21 June. Co-chairman del Workshop: “Remote sensing Data Analysis, modeling, interpretation and Applications: from a global view to a local analysis” nell’ambito di ICCSA Conference.
 - 2013: Roma, Scientific curator of the Exhibition "Sensing the Past: COSMO SkyMed and radar technologies for archaeology". (Roma, 26 august - 2 september, 2013).

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AWARDS, PRIZES, HONOURS AND RECOGNITIONS FOR SCIENTIFIC MERITS

2007: Rotary Award “Outstanding Researchers”, assigned by Rotary Foundation - Italy.

2009: Distinction award by Italian Ministry of Education, University and Research for BYHERINET Project.

2008-09: CNR Highlights 2008-09.

2009-10: CNR Highlights 2009-10.

2011: Science Officer “Cultural and Archaeological Heritage” of the Division Geoinstrumentation and Geoscience of EGU.

Wien, 3-8 April 2011. EGU Assembly.

Paper of special interest “Multitemporal analysis and archaeogeophysical methods to monitor and face the archaeological looting: the experience in Nasca (Southern, Peru)” presented in the session “Satellite time series analysis”, Wien 4 apr. 2011.

Paper of special interest “Archaeogeophysics in Peru and in Bolivia: the contribution of Italian CNR with ITACA mission (2007-10).” showed in the session “From artefact to historical site: geoscience and non-invasive methods for the study and conservation of cultural heritage”, Wien 5 apr. 2011.

1st paper most cited of Journal of Geophysics and Engineering in the years 2010-11 (Masini N., Persico R., Rizzo E. 2010, Some Examples of GPR Prospecting for Monitoring of the Monumental Heritage, *Journal Geophysics Engineering* 7, pp. 190-199).

2012 - Wien, 22-27 April 2012. EGU Assembly.

Paper of Special interest "Thermographic inspection of bond defects in Fiber Reinforced Polymer applied to masonry structures" (N. Masini, M. A. Aiello, L. Capozzoli, and E. Vasanelli) showed in the session “From artefact to historical site : geoscience and non-invasive methods for the study and conservation of cultural heritage”.

Paper of Special interest "Electrical Resistivity Tomographies on the detection of adobe buried archaeological structures in Piramide Sur in Cahuachi (Peru)" (L. Capozzoli, N. Masini, E. Rizzo, R. Lasaponara, and G. Orefici) showed in the session “From artefact to historical site : geoscience and non-invasive methods for the study and conservation of cultural heritage”.

Member of Italian Consultant Panel Stakeholders for Joint Programming Initiative on “Cultural Heritage and global change: a new Challenge for Europe”

2013: Best paper award at the Conference RSCy 2013 (First International Conference on Remote Sensing and Geoinformation of Environment, 8-10 April 2013 Paphos, Cyprus) with a paper entitled: “Gis and Archaeology: A Spatial Predictive Model For Neolithic Sites Of The Tavoliere (Apulia)” (Authors: Maria Danese, Nicola Masini, Marilisa Biscione e Rosa Lasaponara).

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EDITOR-IN-CHIEF OF PRESTIGIOUS NATIONAL AND INTERNATIONAL JOURNALS

Member of the Editorial Board of:

- Remote Sensing.
- Journal of Geophysics and Engineering Journal of Remote Sensing & GIS.
- Geoscientific Instrumentation, Methods and Data System (GI).
- American Journal of Engineering and Applied Sciences.
- Studies in Surveying and Mapping Sciences.
- Open Journal of Remote Sensing and Positioning.

EDITOR BOARD MEMBER OF SCIENTIFIC SERIES

Guest Editor of special issues of international journals : *Journal of Cultural Heritage* (2009, vol. 10S), *Journal of Geophysics and Engineering* (2010, vol. 7; 2011, vol. 8; 2012, vol. 9), *Near Surface Geophysics* (2010, vol.8(5)), *Advances in Geosciences* (2010, vol. 24), *Journal of Archaeological Science* (2011, vol. 38), *International Journal of Geophysics* (2011), *Archaeological Prospection* (2013, vol. 20), *International Journal of Applied Earth Observation and Geoinformation* (2014, vol. 26)

EDITOR BOARD MEMBER OF PRESTIGIOUS ENCYCLOPEDIA

Treccani Enciclopedia Fridericiana

PUBLICATIONS, PATENTS

Books

- Lasaponara R., Masini N. 2012, *Satellite Remote Sensing: a new tool for Archaeology*, Springer, Verlag Berlin Heidelberg, Series: Remote Sensing and Digital Image Processing, Vol. 16, 364 p. 150 illus., 88 in color, ISBN 978-90-481-8800-0.

Papers published in international journals

- Chen F., Masini N., Yang R., Milillo P., Feng D., Lasaponara R., 2015 A Space View of Radar Archaeological Marks: First Applications of COSMO-SkyMed X-Band Data. *Remote Sens.* **2015**, 7, 24-50; doi: 10.3390/rs70100024.
- Danese M., Masini N., Biscione M., Lasaponara R. 2014. Predictive modeling for preventive Archaeology: Overview and case study. *Central European Journal of Geosciences*. March 2014, Volume 6, Issue 1, 42-55.
- Lasaponara R., Leucci G., Masini N., Persico R. 2014. Investigating archaeological looting using satellite images and georadar: the experience in Lambayeque in North Peru. *Journal of Archaeological Science*, 42, 216-230, <http://dx.doi.org/10.1016/j.jas.2013.10.032>.
- Lasaponara R., Masini N. 2014. Beyond modern landscape features: New insights in the archaeological

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area of Tiwanaku in Bolivia from satellite data. *International Journal of Applied Earth Observation and Geoinformation*, **26**, 464–471, <http://dx.doi.org/10.1016/j.jag.2013.09.00>.

- Tapete D., Cigna F., Masini N., Lasaponara R., Prospection and monitoring of the archaeological heritage of Nasca, Peru, with ENVISAT ASAR, *Archaeological Prospection*, 20, 133-147, doi: 10.1002/arp.1449.
- Lasaponara R., Masini N., Holmgren R., Backe Forsberg Y., Integration of aerial and satellite remote sensing for archaeological investigations: a case study of the Etruscan site San Giovenale, *Journal of Geophysics and Engineering*, vol. 9, S26-S39, doi:10.1088/1742-2132/9/4/S26.
- Leucci G., Masini N., Persico R., Soldovieri F. 2011. GPR and sonic tomography for structural restoration: the case of the cathedral of Tricarico, *Journal of Geophysics and Engineering*, 8 (3), 76-92, doi:10.1088/1742-2132/8/3/S08.
- Lasaponara R., Masini N. 2011, Satellite Remote Sensing in Archaeology : past, present and future, *Journal of Archaeological Science*, **38(9)**, 1995–2002, doi:10.1016/j.jas.2011.02.002.
- Lasaponara R., Masini N., Rizzo E., Orefici G. 2011. New discoveries in the Piramide Naranjada in Cahuachi (Peru) using satellite, Ground Probing Radar and magnetic investigations, *Journal of Archaeological Science*, **38(9)**, 2031-2039, doi:10.1016/j.jas.2010.12.010.
- Lasaponara R., Coluzzi R., Masini N., 2011, Flights into the past: Full-Waveform airborne laser scanning data for archaeological investigation, *Journal of Archaeological Science*, **38(9)**, 2061-2070, doi: 10.1016/j.jas.2010.10.003.

Patent

- Persico R., Masini N., Soldovieri F., Patent on GPR Stepped Frequency System (concessione in data 5 settembre 2012).

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