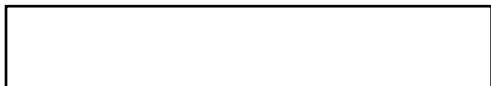


dr. geologo GIANLUCA CATANZARITI



CURRICULUM VITAE, EMPLOYMENT HISTORY AND RESEARCH.

2013 - present:

- Registered Professional Geologist in Italy (Ordine Regionale del Piemonte n. 812) providing advanced 3D geophysical services for Archaeological, Environmental, and Civil Engineering applications.
- As 3DGEOIMAGING, distributor and trainer of GPR-SLICE software (Screening Eagle Technologies).
- Member of the research team lead by Dr. Kathleen Martinez at Tap Osiris Magna (Alexandria, Egypt) in search of Cleopatra tomb.

STUDY AND RESEARCH

2008-2012: Responsible for ground penetrating radar surveys and archaeomagnetic dating at Archaeometry Centre of Universidad Complutense de Madrid (Spain) (Faculty of Geography and History; Dept. Prehistory). Position financed by the Spanish Ministry of Culture (MEC). FP5-HUMAN POTENTIAL.

2003-2007: Marie Curie fellowship: "Improving the human research potential and the socio-economic knowledge base". PhD coursework within the AARCH project "Archaeological Applications for the Rescue of the Cultural Heritage" at Faculty of Physics of Universidad Complutense de Madrid (Spain). Position financed by the European Commission.

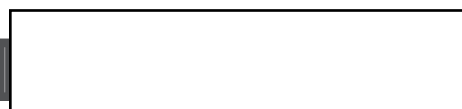
1999: Master's degree in Geological Sciences at Università degli Studi di Torino, Italy, within the project financed by the European Union Commission: Experimentation of new geophysical techniques and definition of integrated methodologies. LIFE 95/IT/A11/IT/00357/TOS financed by European Commission.

MAIN PROJECTS

2019: Member of the expedition lead by Dr. Zahi Hawass to the West Valley of the Valley of The Kings (Luxor, Egypt) in search of undiscovered royal tombs.

2017-2018: National Geographic collaborator within the following research projects:

- The third KV62 radar scan: Searching for hidden chambers adjacent to Tutankhamun's tomb (2018-2019).
- The complete geophysical survey of the Valley of the Kings: search of undiscovered royal tombs in the Valley of the Kings (Luxor, Egypt) (2018).



- Geophysical survey of the Valley of the Kings 2.0: 3d Ground penetrating Radar and multi-parametric geophysical data imaging (2018-2019).

MAIN COLLABORATIONS WITH ACADEMIC INSTITUTIONS

- Geophysical Survey of the Grand Place in Brussels - An Example of Prospection in an Urban Context (2019). Project lead by Centre Nationale de Recherche Scientifiques (CNRS, Paris, France) and Université Libre de Bruxelles (2020).
- Les prospections micro-topographiques et géophysiques de l'abbaye cistercienne de Preuilley (France). Project led by Centre Nationale de Recherche Scientifiques (CNRS, Paris, France) and Université Libre de Bruxelles (2020).
- Lecturer at Dept. Earth Sciences of University of Pisa, (Tuscany Italy): Non-conventional use of Ground Penetrating Radar: the example of the Italian research at Tutankhamon's tomb (KV62). (2019)
- Master's degree thesis co-director at Dept. Earth Sciences of Università of Pisa, (Tuscany Italy): Processing and interpretation of GPR data from debris accumulations (2022).
- Lecturer within the RadarArchaeo School organized by Centre National de Recherches Scientifiques (CNRS, Paris) (2022). Acquisition and post-processing of Ground Penetrating Radar data.
- Multidisciplinary geophysical scanning of Historical Center of the of Siena (Tuscany, Italy). "Sotto Siena (SoS)" research project led by University of Siena (on-going project).

MAIN WORKS IN THE ARCHAEOLOGICAL FIELD

- 1) GPR and ERT measurements at the Food and Agriculture Organizations of United Nations (Rome). Client: **Gruppo FCC SPA (Roman archaeology, 2780 m² surveyed).**
- 2) Multichannel GPR survey of the Palestra Grande of Pompeii. Client: **Istituto Nazionale di Geofisica e Vulcanologia (INGV). (Roman archaeology, 500 m² surveyed).**
- 3) Extensive 3D GPR survey at the Visigothic site of Vega Baja (Toledo, Spain) (11 Hectars surveyed). Client: **Fundación Impulsa. (Visigothic time).**
- 4) Extensive 3D GPR survey at the Visigothic site of Vega Baja (Toledo, Spain) (1 Hectar surveyed). Client: **Ayuntamiento de Toledo (Spain). (Visigothic time).**
- 5) Extensive 3D GPR survey at the Visigothic site of Vega Baja (Toledo, Spain) (2 Hectars surveyed). Client: **Global Arqueología. (Visigothic time).**
- 6) 3D Ground Penetrating Radar in the Place Nagusia of Otxandio (Bask Country, Spain). Client: **Municipality of Otxandio (Spain). (Medieval archaeology, 1700 m² surveyed).**
- 7) 3D GPR survey at Alcazar Real of Guadalajara (Spain). Client: **Ayuntamiento de Guadalajara (Spain). (Medieval archaeology, 5600 m² surveyed).**
- 8) Large scale 3D high-definition Stream-X survey at the Toledo's Archbishop Palace of Alcalá de Henares (Madrid, Spain). **(Medieval archaeology, 35000 m² surveyed).** Client: **Asociación A.R.P.A.**
- 9) Search by multi-frequency GPR of hidden rooms at Tutankhamon tomb (Luxor, Egypt). Client: **National Geographic.**
- 10) 3D GPR, MAG and ERT survey at Valley of the Kings (Luxor, Egypt). **(3000 m² surveyed)** Client: **National Geographic.**

- 11) In search of the Monastery of San Genuario di Lucedio di Crescentino (Vercelli, Italia). **(Medieval archaeology, 3500 m² surveyed)**. Client: **Università del Piemonte Orientale**
- 12) Extensive GPR survey at Livorno Ferraris (Vercelli, Italia) for the archaeological characterization of the subsurface. Client: **Università di Pavia. (Roman archaeology, 40.000 m² surveyed)**.
- 13) 3D-GPR survey at the Preuilly Abbey site, Egligny (France). **(Medieval archaeology, 35.000 m² surveyed)**. Client: **Patricia Husson**.
- 14) GPR survey at the archaeological park of Sepino (Campobasso, Italy). **(Roman archaeology, 80.000 m² surveyed)**. Client: **ATS srl**.
- 15) GPR survey at the site of Taposiris Magna (Alexandria, Egypt). Client: **Dominican Institute for Archaeological Research (DIAR). (5000 m² surveyed)**.
- 16) GPR and Magnetic survey at Isola Cantone (Torino, Italy). **(Medieval archaeology, 800 m² surveyed)**. Client: **Università degli Studi di Torino**.
- 17) 3D GPR survey at Tarquinia (Italy) for the definition of the archaeological risk. **(Pre-roman time 100.000 m² surveyed)**. Client: **ENVICONS SRL**
- 18) Rediscovery of the Roman villa of Rielves. 3D GPR survey. **(Roman archaeology 40.000 m² surveyed)**. Client: **Municipality of Rielves (Toledo, Spain)**.
- 19) 3D GPR survey at the Abazia di Vezzolano (Asti, Italia). **(Medieval archaeology 3.500 m² surveyed)**. Client: **Direzione Regionale Musei Piemonte**.
- 20) 3D GPR survey at Villa Medidoff (Firenze). **(Medieval archaeology 30.000 m² surveyed)**. Client: **Geostudi Astier srl**.
- 21) 3D GPR survey at the Convento dei Capuccini di Tortona. **(Medieval archaeology 2.000 m² surveyed)** Client: **Università del Piemonte Orientale**.

LANGUAGE SKILLS

| | Speaking | Reading | Writing |
|---------|----------|---------|---------|
| Spanish | A | A | A |
| French | A | A | I |
| English | I | A | I |

(B: basic; I: intermediate; A: advanced)

SELECTED PUBLICATIONS

Stefano Campana, Stefano Camporeale, Rossella Pansini, Simay Guzel, Maria Gabriella Carpentiero, Filippo Barsuglia, Gianluca Catanzariti, Gianfranco Morelli, Giulia Penno, Jacopo Tabolli, Valentina Trotta. 2023. Sotto Siena (SOS): verso nuovi paradigmi di archeologia urbana. In Siena e i terremoti. ISSN 2035-5327.

Michel Dabas, Gianluca Catanzariti F. Blairy, 2021. Les prospections micro-topographiques et géophysiques de l'Abbaye de Preuilly. Capitolo 4-2 p.367-400. CReA-Patrimoine. Université Libre de Bruxelles. ISBN : 978-29602029-3-9

Francesco Porcelli, Luigi Sambuelli, Cesare Comina, Antonia Spano, Andrea Lingua, Alessio Calantropio, Gianluca Catanzariti, Filiberto Chiabrando, Federico Fischanger, Paolo Maschio, Ahmed Ellaithy, Giulia Airoidi and Valeria De Ruvo, 2020. Integrated Geophysics and Geomatics Surveys in the Valley of the Kings. Sensors 2020, 20, 1552; doi:10.3390/s20061552.

K. Strutt, J. Ogden, S. Campana, G. Catanzariti, and G. Morelli, 2020. Integrating Magnetic and GPR surveys at Çatalhöyük (Turkey). Near Eastern archaeology 83.2.

Francesco Rubat Borel, Gianluca Catanzariti, Paola Comba, Giulia Airoidi, Serena Prati, Diego Moro, 2019. Salussola, Chiesa di San Pellegrino. Documentazione grafica e fotografica della chiesa e indagini georadar. Quaderni di Archeologia del Piemonte. N. 3. Torino, 2019. Soprintendenza Archeologia, Belle Arti e Paesaggio per le province di Alessandria, Asti e Cuneo.

F. Fischanger, G. Catanzariti, C. Comina, L. Sambuelli, G. Morelli, F. Barsuglia, A. Ellaith, F. Porcelli, 2019. Geophysical anomalies detected by electrical resistivity tomography in the area surrounding Tutankhamun's tomb. *Journal of Cultural Heritage* v. 36 (2019) p.63-71.

L. Sambuelli, C. Comina, G. Catanzariti, F. Barsuglia, G. Morelli, F. Porcelli, 2019. The third KV62 radar scan: Searching for hidden chambers adjacent to Tutankhamun's tomb. *Journal of Cultural Heritage* v. 39 (2019) p.288-296.

M. Forte, N. Danelon, D. Johnston, K. McCusker, E. Newton, G. Morelli and G. Catanzariti, 2020. A Digital Challenge for the Interpretation of Etruscan and Roman Cities. In *Digital Cities between History and Archaeology*. Oxford University press.

M. Dabas, F. Blary, G. Catanzariti, P. Charruadas, S. Flageul, B. Nieuwenhoeve, P. Sosnowska, A. Tabbagh, 2019. The Challenge of Urban Archaeological Geophysics: The Example of Grand' Place in Brussels, Belgium. 13th International Conference on Archaeological Prospection 28 august - 1 September 2019 Sligo - Ireland

A. Tabbagh, M. Dabas, F. Blary, G. Catanzariti, P. Charruadas, S. Flageul, B. Van Nieuwenhoeve and P. Sosnowska. 2019. Geophysical Survey of the Grand Place in Brussels - An Example of Prospection in an Urban Context. 25th European Meeting of Environmental and Engineering Geophysics.

A. Molina-Cardín, S. A. Campuzano, M. L. Osete, M. Rivero-Montero, F. J. Pavón-Carrasco, A. Palencia-Ortas, F. Martín-Hernández, M. Gómez-Paccard, A. Chauvin, S. Guerrero-Suárez, J. C. Pérez-Fuentes, G. McIntosh, G. Catanzariti, J. C. Sastre Blanco, J. Larrazabal, V. M. Fernández Martínez, J. R. Álvarez Sanchís, J. RodríguezHernández, I. Martín Viso, and D. Garcia Rubert, 2018. Updated Iberian Archeomagnetic Catalogue: New Full Vector Paleosecular Variation Curve for the Last Three Millennia. *Geochemistry, Geophysics, Geosystems*, 19. <https://doi.org/10.1029/2018GC007781>

G. Tronca, I. Tsalicoulou, S. Lehner, G. Catanzariti, 2018. Comparison of pulsed and stepped frequency continuous wave (SFCW) GPR systems. Published in: 2018 17th International Conference on Ground Penetrating Radar (GPR). IEEE

Rajala U., Karivieri A., Viberg A., Sorge E., Morelli G., Catanzariti G., 2018. The Stockholm Volterra Project: exploring a cityscape in an urban context. In: *The Archaeology of Death: Proceedings of the Seventh Conference of Italian Archaeology held at the National University of Ireland, Galway, April 16-18, 2016* / Archaeopress, 2018, p. 553-562.

Christian Dietz, Gianluca Catanzariti, 2017. Three-Dimensional Laser-Scanner Reconstructions. Appendix 2 published in *The Archaeology of the Jesuit Missions in Ethiopia (1557-1632)* by Víctor M. Fernández, Jorge de Torres, Andreu Martínez d'Al s-Moner, Carlos Cañete. BRILL EDITION, ISBN. 978-90-04-28232-2.

Gianluca Catanzariti, Christian Dietz, 2017. 3D Ground Penetrating Radar (GPR) Survey at the Azäzo—Gännätä Iyäsus Jesuit Mission. Appendix 3 published in *The Archaeology of the Jesuit Missions in Ethiopia (1557-1632)* by Víctor M. Fernández, Jorge de Torres, Andreu Martínez d'Al s-Moner, Carlos Cañete. BRILL EDITION, ISBN. 97890-04-28232-2.

G. Catanzariti, 2016. Rilievi Georadar presso l'area archeologica di via Brisa in Milano. Quaderni del civico museo archeologico e del civico gabinetto numismatico di Milano a cura di A.M. Fedeli e C. Pagani. Fascicolo 5.

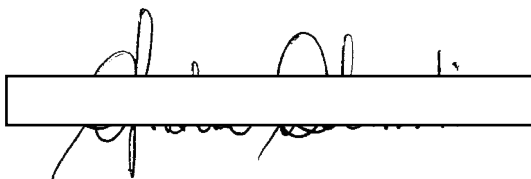
Felici, C. and Campana, S. and Fiocchi Nicolai, V. and Spera, L. and Catanzariti, G. and Morelli, G. and Pericci, F. and Saito, K. 2016. Il comprensorio della catacomba di San Callisto tra la via Appia e la via Ardeatina (Roma) alla luce delle indagini geofisiche estensive. *Archeologia e Calcolatori*, 27. pp. 227-249. ISSN 1120-6861

M.L. Osete, A. Chauvin, G. Catanzariti, A. Jimeno, S.A. Campuzano, J.P. Benito-Batanero, C. Tabernero-Galán, P. Roperch, 2016. New archaeomagnetic data recovered from the study of celtiberic remains from central Spain (Numantia and Ciadueña, 3rd-1st centuries BC). Implications on the fidelity of the Iberian paleointensity database. Physics of the Earth and Planetary Interiors 260 (2016) 74-86.

Novo, J. Leckebusch, D. Goodman, G. Morelli, S. Piro, G. Catanzariti. 2013. Advances in GPR Imaging with Multichannel Radar Systems. Journal of Surveying and Mapping Engineering. v: 1 Iss. 1, p. 1-6.

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi del Regolamento UE 2016/679 (GDPR) e del D.Lgs. 2018/101.

Gianluca Catanzariti



Torino, 01/01/2026