

Maria Cristina Manzetti, Ph.D.

Born on 07/01/1985 in Genzano di Roma, Italy
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Postdoctoral positions

01/09/2021-31/08/2024, Yufe Postdoctoral Researcher at the Department of History and Archaeology at University of Cyprus.

01/03/2021 – 31/08/2021, Secondment within the project “STABLE-Structural stABiLity risk assessment” H2020-MSCA-RISE-2018 (Marie Skłodowska-Curie Research and Innovation Staff Exchange) at Alma Sistemi Company at Guidonia, Italy.

01/02/2021 – 31/08/2021, Post-doc within the Subproject “DIATOPO” of the Act “Crete Temporal Landscapes of Crete: Higlighting the Mirabello Sea and Mountainous Wealth” at GeoSatResearch Lab – Institute for Mediterranean Studies, Rethymno, Greece.

Scholarships

01/10/2021 – 31/01/2022, Lerici Scholarship at the Department of Archaeology and Ancient History at Lund University, Sweden.

1/11/2018 – 31/10/2019, fellow within the project KRIPIS – POLITEIA II: “Culture-Technology: New technologies in research, study, documentation and accessibility in the information of items and monuments of cultural heritage (2014-2020)” at GeoSatResearch Lab – Institute for Mediterranean Studies, Rethymno, Greece.

The research focused on the 3D reconstruction of four Neolithic villages of Thessaly during their full living period, plus the 3D visibility analysis and the space syntax analysis to understand their spatial and symbolical organisation of those societies.

7/04/2019 – 7/07/2019, visiting fellowship within the project “PD-Invisible: PaDova Innovative VISions – visualization and Imaginings Behind the city Learning” at Department of Cultural Heritage at University of Padua, Italy.

The research focused on the georeferencing of old cadastral maps of Padua through ArcMap and on the study of the historical evolution of the town.

1/11/2017 – 31/10/2018, fellow within the project Stavros Niarchos Foundation-FORTH “Advancing Young Researchers’ Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges – ARCHERS” at GeoSatResearch Lab – Institute for Mediterranean Studies, Rethymno, Greece.

The research focused on the developing an app for head-mounted display to visit ancient theatres and to listen ancient performances.

1/11/2014 – 31/10/2017, IKY-State Scholarship Foundation, scholarship for foreigners, for post graduated researchers in Greece. This is the scholarship which funded my PhD research.

Education

22/10/2018, Ph.D. in Architecture, course of Digital Media and Cultural Heritage, School of Architectural Engineering, Technical University of Crete Chania, Greece.

Title of the thesis “An interdisciplinary approach for the study and the valorisation of the Roman theatres of Crete”.

The research focused on: 3D reconstructions of ancient theatres, 3D visibility analysis, virtual acoustics analysis, development of a web-database containing the new information obtained, development of an app for head-mounted display where the user moves around the theatres and listens a performance from different seats (<https://romantheatres.ims.forth.gr/>).

11/12/2011, Master of II level in Geotechnologies applied to archaeology, Centre of Geotechnologies of San Giovanni Valdarno, University of Siena, Italy.

The course focused on: photogrammetry, GIS, 3D modelling, database, laser scanner, geophysical prospection.

21/05/2010, Master degree in Archaeology, University of Rome Tor Vergata, Italy. Title of the thesis “*Mons Aventinus: un’ipotesi ricostruttiva dei paesaggi urbani in età romana*”. Mark: 110 *cum laude*.

Acquired competences: advanced level of understanding the historical and methodological aspects pertaining to the various sectors and disciplines ranging from prehistoric to high medieval periods.

6/12/2017, Bachelor degree in Science of Cultural Heritage, University of Rome Tor Vergata, Italy. Title of the thesis “Per una carta archeologica dell’Aventino”. Acquired knowledge: basic competences in archaeological, historical and artistic heritage; legal and administrative knowledge pertaining to the cultural heritage.

Conference Proceedings and Journal article

1. **Manzetti M.C.**, 2019. The Performances at the Theatre of the Python in Gortyna, Crete. Virtual Acoustics Analysis as a Support for Interpretation, in *Open Archaeology*,5 (1), De Gruyter, pp. 434-443. DOI: <http://doi.org/10.1515/opar-2019-0027>.
2. **Manzetti M.C.** and Parthenios P, 2018. A new methodology for ancient theatre architecture hypotheses verification, in *Proceeding of the 3rd Conference on Virtual Archaeology*, 28th – 30th of May 2018, Saint Petersburg, Russia, pp.122-126.

3. **Manzetti M.C.**, 2018. Experiencing an ancient performance in a Roman theatre, in *Proceedings of the 3rd Conference on Archaeoacoustics*, 5th – 8th of October, Tomar, Portugal, pp. 122-126.
4. **Manzetti M.C.**, 2017. Reconstructing ancient theatres according to virtual acoustics analysis, in *Proceedings of the 2nd Conference on Computer Applications and Quantitative Methods in Archaeology Greek Chapter (CAA-GR)*, 20-21 December 2016, Athens, Greece, pp. 81-87.
5. **Manzetti M. C.**, 2016. 3D visibility analysis as a mean to validate ancient theatre's reconstructions: the case study of the large Roman theatre of Gortyna, in *Virtual Archaeology Review*, 7 (15), pp. 36-43; doi: org/10.4995/var.2016.5922
6. **Manzetti M.C.**, 2016. 3D visibility analysis as a mean to validate ancient theatre's reconstructions, in *Proceedings of the 8th International Congress on Archaeology, Computer Graphics, Cultural Heritage and Innovation "ARQUEOLOGICA 2.0"* in Valencia (Spain), Sept. 5 – 7, 2016, pp. 267-269.
7. **Manzetti M.C.**, Parthenios P., Sarris A., 2015. Integrating traditional methods with new technologies, in *Proceedings of Digital Heritage Conference*, Granada (Spain), Sept. 28 – Oct.2, 2015, vol. II, pp. 173 – 176, doi: 10.1109/DigitalHeritage.2015.7419480.
8. Sarris A., Papadopoulos N., Kokkinou E., Soupios P., Teichmann M., Simyrdanis K., Kakoulaki G., Alexakis D., **Manzetti M.C.**, Luce J.M., Uphill and downhill geophysical challenges in Delphi, Greece, in Aleksandra Rzeszotarska-Nowakiewicz (ed) *Archaeologia Polona: Special theme: Archaeological Prospection*, 11th International Conference on Archaeological Prospection (AP2015), 15th-19th September 2015, Institute of Archaeology and Ethnology, Polish Academy of Sciences, Warsaw, Poland, Vol. 53, pp. 343-346.
9. Sarris A., Kalayci T., Simon F.X., Donati J., Cuenca Garcia C., Manataki M., Cantoro G., Karampatsou G., Kalogiropoulou E., Argyriou N., Dederix S., **Manzetti M.C.**, Nikas N., Vouzaxakis K., Rondiri V., Arachoviti P., Almatzi K., Efstathiou D., Stamelou E., Cultural variations of the Neolithic landscape of Thessaly, in Aleksandra Rzeszotarska-Nowakiewicz (ed) *Archaeologia Polona: Special theme: Archaeological Prospection*, 11th International Conference on Archaeological Prospection (AP2015), 15th-19th September 2015, Institute of Archaeology and Ethnology, Polish Academy of Sciences, Warsaw, Poland, Vol. 53, pp. 355-359.

Book chapters

1. Đorđević Z., Dragišić M., **Manzetti M.C.**, Novković D., 2020. Digitization of Acoustics Heritage in a Service of Protection, Research and Promotion of European Cultural Heritage. In: Kremers H. (eds.) *Digital Cultural Heritage*. Springer, Cham, pp. 433-447. DOI: http://doi.org/10.1007/978-3-030-15200-0_30
2. **Manzetti M.C.**, 2019. L'acustica del teatro, in J. Bonetto, D. Francisi, S. Mazzocchin (eds.), *Gortina IX.2 Il teatro del Pythion. Scavi e ricerche 2001-2013*, Monografie della Scuola Archeologica di Atene e delle Missioni Italiane in Oriente, XXVIII, Firenze, volume I, pp. 554-565.

Conferences presentations

14 – 18 June 2021, Conference on Computer Applications and Quantitative Methods in Archaeology (CAA 2021), Digital Crossroad, online. Oral presentation “A methodological approach for Intra-Site Analysis of Spatial Organization of Thessalian Neolithic Settlements”.

12 – 15 November 2018, Visual Heritage 2018 - CHNT, Wien, Austria. Oral presentation “Valorisation of the Roman theatres of Crete by mean of a VR application”.

19 – 21 October 2018, Digital Humanities and Ritual Spaces, Rethymno, Greece. Oral presentation “The performances at the theatre of the Pythion at Gortyna (Crete)”.

28 – 30 May 2018, 3rd Conference on Virtual Archaeology 2018, Saint Petersburg, Russia. Oral presentation “A new methodology for ancient theatre architecture hypotheses verification”.

5 – 8 October 2017, 3rd Conference on Archaeoacoustics III, Tomar, Portugal. Oral presentation Experiencing an ancient performance in a Roman theatre”.

20 – 21 December 2016, 2nd Conference on Computer Applications and Quantitative Methods in Archaeology Greek Chapter (CAA-GR), Athens, Greece. Oral presentation “Reconstructing ancient theatres according to virtual acoustics analysis”.

5 – 7 September 2016, 8th International Congress on Archaeology, Computer Graphics, Cultural Heritage and Innovation “ARQUEOLOGICA 2.0”, Valencia, Spain. Oral presentation “3D visibility analysis as a mean to validate ancient theatre’s reconstructions”.

28 September – 2 October 2015, Digital Heritage Conference, Granada, Spain. Poster “Integrating traditional methods with new technologies”.

Invited presentations

25/02/2021, Webseminar from the digitalisation to the virtual reconstruction and sound simulation of ancient musical instruments: methods, results, perspectives, Istituto di Scienza del Patrimonio Culturale, CNR, “Virtual Acoustic Reconstruction to help archaeological interpretations: the case of the Roman theatres”

26/02/2019, Department of History and Archaeology, University of Barcelona (Spain), “An interdisciplinary approach for the study of the Roman theatres”.

14/02/2019, School of Architecture, National Technical University of Athens (Greece), “The study and the valorisation of the Roman theatres in Crete”.

6/02/2019, Institute of Marine Engineering, Council of National Research in Rome (Italy), “L’archeologia virtuale per lo studio e la valorizzazione dei teatri romani a Creta”.

9/1/2017, Department of Archaeology, University of Padua (Italy), “Dalla realtà virtuale all’archeologia virtuale”.

Attended Workshop

4-5/10/2018, Institute for Mediterranean Studies – Foundation for Research and Technology, Hellas, Rethymno, Crete. Heurist Workshop of RESTeCH III GeoInformatics in the Domain of Archaeological Research.

30 November - 2 December 2016, Maison des Science de l’Homme d’Aquitaine e Archeovision Lab a Bordeaux, Francia. Parthenos (Pooling Activities, Research and Tools for Heritage E-research, Networking, Optimization and Synergies)Workshop “Digital 3D objects in Art and Humanities: challenges of creation, interoperability and preservation”.

9-20 February 2015, Laboratory of Geophysical – Satellite Remote Sensing and Archaeo-environment of the Institute for Mediterranean Studies – Foundation for Research and Technology, Hellas, Rethymno, Crete. International Technical Workshop “KRIPIS – POLITEIA: Culture-Technology: New technologies in research, study, documentation and accessibility in the information of items and monuments of Cultural Heritage (2013-2015)”.

Internships

12/03/2014 – 30/05/2014, intern at Visual Dimension, Oudenaarde, Belgium. Project V-Must – Virtual Museum Transnational Network Competence Centre.

05/06/ 2012 – 08 /09/2012, interns at GeoSatResearch Lab of the Institute for Mediterranean Studies a Rethymno, FORTH, Crete, Greece. Leonardo Da Vinci Project.

04/07/2011 – 29/10/2011, interns at Menci Software, Arezzo, Italy, for the master of II level. Activity of photogrammetry on Cultural Heritage.

Fieldworks

December 2017, geophysical prospection at Pella, Greece: GPR, electro-resistivity and magnetometry, with GEeoSatResearch Lab. Director: Apostolos Sarris.

November 2017, geophysical prospection at Koumassa, Crete, Greece: GPR, electro-resistivity and magnetometry, with GEeoSatResearch Lab. Director: Apostolos Sarris.

August 2014, geophysical prospection in Tessaly, Greece: GPR, electro-resistivity and magnetometry, with GEeoSatResearch Lab. Director: Apostolos Sarris.

July 2013, geophysical prospection at Delphi, Greece: GPR, electro-resistivity and magnetometry, with GEeoSatResearch Lab. Director: Apostolos Sarris.

June – July 2010, archaeological excavations at Gabii, Rome, with University of Rome Tor Vergata. Directors: Dr. Marco Fabbri, Prof. Massimo Osanna.

October – December 2009, archaeological excavations at Gabii, Rome, with University of Rome Tor Vergata. Directors: Dr. Marco Fabbri, Prof. Massimo Osanna.

July – August 2009, archaeological excavations at Gabii, Rome, with University of Rome Tor Vergata. Directors: Dr. Marco Fabbri, Prof. Massimo Osanna.

July – October 2008, archaeological excavations at Gabii, Rome, with University of Rome Tor Vergata. Directors: Dr. Marco Fabbri, Prof. Massimo Osanna.

July – October 2007, archaeological excavations at Gabii, Rome, with University of Rome Tor Vergata. Directors: Dr. Marco Fabbri, Prof. Massimo Osanna.

May - June 2006, archaeological excavations at Tor Vergata, Rome, with University of Rome Tor Vergata. Director: Andreina Ricci.

June - July 2005, archaeological excavations at Passolombardo, Rome, with University of Rome Tor Vergata. Director: Andreina Ricci.

Languages

Italian (mother tongue)

English (excellent reading skills and very good oral and written communication skills)

Spanish (good reading skills and oral and written communication skills)

Modern Greek (basic oral and written communication skills)

French (basic oral and written communication skills)

Technological skills

Software: 3D StudioMax, Odeon Room Acoustics, ArcGis, ArcScene, AutoCad, Unity 3D, Blender, SketchUp, ZScan, ZMap, UMap, SiteManager, Gimp, Photoshop, Rhinoceros, Erdas, Cyclone.