



Gianluca Sabino Pio Cantoro

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WORK EXPERIENCE

15/07/2020 – CURRENT – Montelibretti, Rome, Italy

RESEARCHER (PERMANENT) – INSTITUTE OF HERITAGE SCIENCE - ITALIAN NATIONAL RESEARCH COUNCIL (ISPC-CNR)

Researcher - Archaeologist

[Landscape archaeology, Ancient Topography, Remote Sensing]

01/10/2011 – 14/07/2020 – Rethymno, Greece

POST-DOCTORAL RESEARCHER – INSTITUTE FOR MEDITERRANEAN STUDIES (IMS) - FOUNDATION OF RESEARCH & TECHNOLOGY, HELLAS (FORTH)

Research Assistant at the Laboratory of Geophysical - Satellite Remote Sensing and Archaeo-environment

26/09/2016 – 25/08/2017

AERIAL ARCHAEOLOGY EXPERT – NATIONAL AERIAL-PHOTO ARCHIVE AT THE CENTRAL INSTITUTE FOR CATALOGUE AND DOCUMENTATION

- Data entry in Air-Photo database;
- Georeferencing of aerial images;
- preparation and testing of web platform for the photo-archive;
- consulting on development policies of the Photo-Archive

01/02/2013 – 30/07/2014 – Leiden, Netherlands

POST-DOCTORAL RESEARCHER – UNIVERSITY OF LEIDEN - FACULTY OF ARCHAEOLOGY

Aerial Remote Sensing module for the "Landscape of Early Roman Colonization" project

2013 – 2017 – [Greece], Greece

AERIAL AND GROUND PHOTOGRAMMETRY FOR CH – VARIOUS COMMITMENTS

- [2015–2017] 3D documentation of archaeological excavation Kalo Chorafi for the *Eforate of Antiquities of Rethymno*;
- [July 2013] Ground and Aerial Photogrammetric documentation of the Site of Malia for the *ECOLE FRANCAISE D'ATHENES*, Athens (Greece) - Extensive 3D photogrammetric documentation of the 'Magasins Dessenne' at Malia (Crete, Greece); [May 2017] 3D photogrammetric and laser scanning documentation of wall facades at the Minoan Palace;
- [May 2015] Photogrammetric 3D documentation of the archaeological shipsheds in the old town of Rethymno (Greece) - *IMS-FORTH*;
- [July 2016] Photogrammetric 3D documentation and architectural drawing production for the church of Malles (Ierapetra, Greece) - *IMS-FORTH*;
- [June 2017] Photogrammetric and 3D laser scanning of the archaeological site of Tripitos (Siteia, Greece) - *IMS-FORTH*;
- [July 2017] Photogrammetric and 3D laser scanning of the archaeological site of Driros (Siteia, Greece) - *IMS-FORTH*;
- [Oct 2017] Ground and Aerial Photogrammetry and 3D laser scanning of the archaeological buildings at Oxa mountain (Siteia, Greece) - *IMS-FORTH*;
- [Nov 2017] Photogrammetric and 3D laser scanning of the archaeological area of Elounda (Siteia, Greece) - *IMS-FORTH*;
- [Nov 2017] Photogrammetric and 3D laser scanning of the ancient basilica (with mosaic on pavement) of Goulediana (Rethymno, Greece) - *IMS-FORTH*;

2013 – 2015 – Rethymno, Greece

GEOPHYSICAL SURVEY & RPAS MAPPING – IMS-FORTH

Geophysical Survey & RPAS mapping (photogrammetry DEM and orthophoto) for

- "Neolithic Thessaly" project - 2013/2014
- Mantinea (Arcadia, Greece) - 2015
- Ilida (Ilia, Greece) - 2015

2012 – 2020 – various cities, Greece

GEOPHYSICAL SURVEY – IMS-FORTH

Geophysical Survey at:

- Prosilio (Boeotia, Greece) [26nov2017-9dec2017]
- Koumasa (Crete, Greece) [13nov2017-19nov2017]
- Plataies (Boeotia, Greece) [12nov2016-24nov2016]
- Levadeia (Boeotia, Greece) [2015]
- Hyettos (Boeotia, Greece) [30jul2013-14aug2013, 2014 and 2015]
- Isernia (Italy) [2014]
- Mantinea (Arcadia, Greece) [2014]
- Venosa (Italy) [29oct2013-2nov2013]
- Hyettos, Boeotia (Greece) - Fieldschool and geophysical survey [2013]
- Andros (Cyclades, Greece) [16oct2012-27oct2012]
- Eleftherna (Crete, Greece) [8oct2012-12oct2012]
- Diros, (Laconia, Greece) [1jul2012-4jul2012]
- Thebes (Boeotia, Greece) [14jun2012-20jun2012]
- Alepotripa (Laconia, Greece) [2012]

2009 – 2017 – Crete region, Greece

AERIAL ARCHAEOLOGICAL SURVEY – VARIOUS COMMITMENTS

- Aerial Archaeological Survey over central and eastern Crete for Cultural Heritage monitoring and database updating [Funded by RCH (Project: High above the mountains)] - 2017
- Aerial Archaeological survey on the North-Western coast of Crete for Cultural Heritage monitoring and database updating [Eforate of Antiquities of Rethymno (GR), Rethymno (Greece)] - 2015
- Aerial archaeological survey for the purpose of the ongoing research of the Chicago Field Museum at Veszto, Szeghalom, Bekes Ibrany and Csardaszallas (Hungary) [The Chicago Field Museum, Chicago (United States)] - 2013
- Multiple flights for aerial archaeological survey over Central and Western Crete [IMS-FORTH] - 2012
- Aerial Archaeological Survey in Eastern Crete [INSTAP-SCEC] - 2009

various cities, Greece

SHALLOW-WATER/MARINE GEOPHYSICS – IMS-FORTH

- Labayana (Argolida, Greece) - Shallow water geophysics of submerged Bronze Age town
- Elounda (Lasithi, Greece) - Shallow-water/marine geophysics of Hellenistic town
- Pafos (Cyprus) - Shallow water geophysics at the old port of Pafos

CURRENT – various places

RPAS (DRONE) FOR CULTURAL HERITAGE – VARIOUS COMMITMENTS

- In the framework of 'Byzantine Crete' project (University of Crete, Rethymno, Greece), a number of early Byzantine mountain castles in Crete have been surveyed with RPAS for high resolution orthophoto production
- 3D documentation of ongoing archaeological excavation at Aghios Vasilios, Sparti (Greece)
- Photogrammetric survey of the submerged archaeological sites of Tertsa, Stomio and Elounda (Ierapetra)
- RPAS mapping and 3D reconstruction of several sites for "Neolithic Thessaly" project
- Aerial and ground photogrammetric documentation of the Regio IV at archaeological excavation of Ostia Antica, Rome (Italy)
- Photogrammetric documentation and reconstruction of the Venetian Castle of Heraklion for structural assessment and support for forthcoming restoration

03/01/2011 – 31/05/2011 – Rome, Italy

LANDSCAPE ARCHAEOLOGIST – "L.A.T.E.R.E.S.", SOCIETY OF ARCHAEOLOGY AT ROME VIA CARDINAL SANFELICE, 7, 00162 ROMA (ITALY)

Selected by "L.A.T.E.R.E.S.", society of archaeology at Rome, as landscape archaeologist specialized in photogrammetry and photointerpretation for the "suburbio" (suburb) of Rome [5 months]

2009 – 2011

CONSULTANCY AND TECHNICAL SUPPORT – VARIOUS COMMITMENTS

- Consultancy and Technical support for the (graphic and photographic) documentation for the excavations of INSTAP-SCEC (Crete, Greece)
- Census of the previous situation, search of problems and possible solutions for a Feasibility study of a new Museum Network in the Province of Foggia
- Field survey documentation and aerial archaeology in the "Boeotia Project" (prof. J.L.Bintliff -Leiden univ.- and prof. B. Slapsak -Ljubljana univ.-)

04/2009 – 04/2009 – Ljubljana, Croatia

ARCHAEOLOGIST – UNIVERSITY OF LJUBLJANA ASKERCEVA 2, SI-1000 LJUBLJANA (CROATIA)

Survey and fast documentation (with GPS and photogrammetric reconstructions) in the island of Hvar, Croatia (protected by UNESCO)

2008 – 2009

UNIVERSITY TEACHING

- Lesson on GIS in Archaeology for the University of Ljubljana-Faculty of Arts, Department of Archaeology Aškerčeva 2, P.O. 580, SI-1000 Ljubljana (Slovenia)
- Lesson on Museology and e-museums for the University of Pisa - Dip. Natural Science via S. Maria, 56100 Pisa (PI) (Italy)

2006 – 2007 – Italy

GUIDE AND RESPONSIBLE FOR THE EDUCATIONAL PROGRAM IN THE MUSEUM – MUSEUMS AND SECONDARY SCHOOLS IN TUSCANY

Guide and responsible for the educational programs and laboratories of experimental archaeology in the Museums of Camaiore and Viareggio (both in Lucca province)

26/02/2007 – CURRENT

ENTITLED TOURIST GUIDE – TUSCANY REGION

Tourist guide with authorization to work as guide in Pisa - Piazza dei Miracoli (italian-english) and all Italy.

1995 – 2006 – Pisa, Italy

VOCATIONAL TRAINING EXCAVATIONS DURING BA - MA STUDIES – UNIVERSITY OF PISA

Trench master and excavator, Drafter, Photographer, Responsible for arch. documentation in the following archaeological projects:

- Eneolithic site in Terralba (Oristano, Sardinia);
- Multi-period site in Contraguda-Perfugas (Sassari, Sardinia);
- Neolithic settlement in Santo Stefano di Ortucchio (L'Aquila, Abruzzo);
- Italic and roman settlement "Blanda Julia" in Palecastro di Tortora (Cosenza, Calabria);
- Roman villa in Porta a Lucca in Pisa (Tuscany);
- Archaeological survey along the Fiumarella river in Cosenza, Calabria;
- Roman "statio" in Malvito – Pauciuri (Cosenza, Calabria);
- Neolithic settlement in Maddalena di Muccia (Macerata, Marche);
- Responsible for the Italian Cultural Heritage Ministry in the excavation in La Rotta di Pontedera (Pisa, Tuscany).

1999 – 2003 – various, Italy

CONTRACTED ARCHAEOLOGIST – VARIOUS COMMITMENTS

- Study of archaeological finds and preparation (with texts and descriptions into panels) for the exhibition "Cacciatori e agricoltori nella valle del Fiora"
- Analysis of animal bones from archaeological context: Grotta delle Settecannelle (VT)

- Archaeologist for the society "Coop. Archeologia"
- Director of archaeological excavation in Nuraghe Santu Antine (Sardinia-Italy); responsible for archaeological documentation

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GREEK	C1	C1	C1	C1	C1
FRENCH	B2	B2	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

[in press]

- Cantoro Gianluca, Handling hundreds of aerial images without ground references: archaeological photointerpretation in the era of digital photogrammetry, in Archeologia Aerea 10.
- Cantoro Gianluca, Chapter 4 "NUMÉRISATION 3D DU BÂTIMENT DESSENNE" in "Le Bâtiment Dessenne et les abords Sud-Ouest du palais dans l'établissement pré- et protopalatial de Malia".

[printed/peer-reviewed - 2021-2015]

- Cantoro Gianluca, Where... goats dare: Aerial Survey in Mountainous Landscapes between History and Ethnography, in Archeologia Aerea 9.
- Cantoro Gianluca, Handling hundreds of aerial images without ground references: archaeological photointerpretation in the era of digital photogrammetry, in Archeologia Aerea 10.
- Kleanthis Simyrdanis, Nikos Papadopoulos, Gianluca Cantoro, Shallow Off-Shore Archaeological Prospection with 3-D Electrical Resistivity Tomography: The Case of Olous (Modern Elounda), Greece, in Remote Sensing 8/11
- Cantoro, Gianluca, Jeremia Pelgrom, and Tesse D. Stek. Reading a difficult landscape from the air. A methodological case-study from a WWII airfield in South Italy. Journal of Cultural Heritage.
- Cantoro, Gianluca, Vassiliki Sythiakakis, and Stelios Manolioudis. Visualizing structural issues through photogrammetric 3D documentation of Cultural Heritage: the Venetian Castle at Heraklion, Crete (Greece). In The future of the past: from Amphipolis to Mosul. New approaches to cultural heritage preservation in the Eastern Mediterranean.
- Sarris, A., Papadopoulos, N., Dederix S., Cantoro, G., Agapiou, A., Tsigonaki, C., Devolder, M., 2013. "New Technologies for Capturing the Dynamics of Cultural Landscapes", Arxaiologiko Ergo Kritis, Rethymno Dec. 2013, 73-84.
- Cantoro, Gianluca. Aerial Reconnaissance in Archaeology - from Archives to DigitalPhotogrammetry, in (A. Sarris ed.) Best Practices of Geoinformatic Technologies for the Mapping of Archaeolandscapes (ISBN: 9781784911621), 103-114 .
- Cantoro, Gianluca. Aerial Photogrammetry: when Archaeology meets SIFT. In Recovering Lost Landscape. Belgrade, Serbia, 117-128.
- Cantoro, Gianluca, Nikos Papadopoulos, Nassos Argyriou, Kayt Armstrong, Carmen Cuenca-Garcia, Jamieson Donati, Tuna Kalayci, Ian Moffat, Apostolos Sarris, and Francois-Xavier Simon. 2015. A Satellite, Aerial and Low-Altitude approach for Ancient Greek Cities. International Society for Archaeological Prospection Newsletter 42: 3-6.
- Pelgrom, Jeremia, Maria Luisa Marchi, Gianluca Cantoro, Anita Casarotto, Arthur Hamel, Lucia Lecce, Jesus Garcia Sanchez, and Tesse D. Stek. 2014. New approaches to the study of village sites in the territory of Venosa in the Classical and Hellenistic periods. Agri Centuriati - An International Journal of Landscape Archaeology XI.

- Chalikias, Konstantinos, and Gianluca Cantoro. 2014. Endangered Cretan Landscapes: Using Digital Applications and Geospatial Information for the Recording and Monitoring of Recent Landscape Transformation in Southeast Crete. In Proceedings of the 1st CAA-GR conference. Rethymno, Crete (Greece): GeoSat ReSeArch Lab IMS-FORTH, 229-236.
- Pelgrom, Jeremia, G. Cantoro, M. L. Marchi, A. De Siena, and T. Stek. 2013. Roman Colonial Landscapes: Ager Venusinus. Paestum: 24-25.
- Cantoro, Gianluca. 2013. Endangered heritage: monitoring natural actions by means of Aerial Archaeology. In Proceedings of the 4th EARSeL 2013, Matera, Italy, ed. Rosa Lasaponara, Nicola Masini, and M. Biscione. Matera, Italy, 235-250.
- Cantoro, Gianluca, and Apostolos Sarris. 2012. Fundamental Tools for Photo-Interpretation in Mountainous Rocky Areas: Photogrammetry and Ground-Truthing. In Proceedings of the 32nd EARSeL Symposium, 100-112. Mykonos, Greece.
- Cantoro, Gianluca. 2012a. A free set of tools for automated imagery rectification. International Society of Archaeological Prospection (ISAP) 30: 9-11.
- Cantoro, Gianluca. 2012b. Speeding up Georeferencing with Subpixel Accuracy. In Archaeology in the Digital Era Volume II, 752-760. Southampton: Amsterdam University Press.
- Cantoro, Gianluca. 2011. Georeferenziazione accurata, veloce e gratuita (Accurate, Fast and Free Georeferencing). Archeomatica 4: 20-23.
- Cantoro, Gianluca. 2008a. Raw Materials Project. Archaeological WEBGIS with Googlemaps API. In Proceedings of XXI CIPA Symposium, ed. Andreas Georgopoulos. Athens, 1-2.
- Cantoro, Gianluca. 2008b. Reinterpretazione delle mappe di Google: webGIS dinamico elementare e formati aperti con ASP e XML (Reinterpreting Google maps: dynamic webgis and open formats with asp and xml). In III Workshop Open Source, Free Software e Open Format nei processi di ricerca archeologica. Padova.
- Serradimigni, Marco, Carlo Tozzi, and Gianluca Cantoro. 2008. Il Giacimento del Paleolitico Superiore di Catignano C (Pescara). *Bullettino di Paleontologia Italiana* 97: 57-71. Cantoro, Gianluca. 2007. Le sepolture di epoca romana di Cala Giovanna Piano. In *Preistoria e Protostoria dell'Area Tirrenica*. Pisa: Felici Editore, 161-166.
- Ucelli Gnesutta, Paola, Giovanni Boschian, Gianluca Cantoro, Elisabetta Castiglioni, and Mario Dini. 2006. I livelli epigravettiani della Grotta delle Settecannelle (Viterbo) in *Rivista di scienze preistoriche*: LVI, 2006. doi: 10.1400/206417.
- Cantoro, Gianluca, Maria Assunta Iaconis, and Domenico Barreca. 2001. Nuove ricerche nell'insediamento di Catignano, Ponte Rosso (PE). *Rassegna di Archeologia* 18a: 57-75. 17/1/17 © European Union, 2002-2016 | <http://europass.cedefop.europa.eu>

- Cantoro G., Tsigonaki Ch., Armstrong K., Sarris A., Integrating low altitude with satellite and airborne aerial images: photogrammetric documentation of Early Byzantine settlements in Crete, in Proceedings of the CAA 2015 Meeting, Siena (Italy).
- Sarris, A., Donati, J., Kalayci, T., Simon, F-X., Manataki, M., Cuenca-Garcia, C., Cantoro, G., Amalgamation of Satellite Remote Sensing and Geophysical Prospection for the Investigation of Ancient Cities: Two Case Studies from Demetrias and Pherai at the Region of Magnesia, Thessaly, Central Greece. 8th Congress of Balkan Geophysical Society in Chania, Crete, Greece, 4-8 October 2015.
- Cantoro, G., Sarris, A., Guenca-Garcia, C., Kalayci, T., Simon, F-X., Donati, J., Manataki, M., Vouzaxakis, K., Rondiri, V., Arachoviti, P., Almatzi, K., Efstathiou, D, & Stamelou, E., From Field-work to... "air-work": Photogrammetric Applications in Neolithic Landscape Reconstruction, AARG2014, Aerial Archaeology Research Group, Dublin, Ireland, 2014.
- Cantoro, G., Sarris, A., Kalayci, T., Simon, F-X., Donati, J., Manataki, M., Vouzaxakis, K., Rondiri, V., Arachoviti, P., Almatzi, K., Efstathiou, D, & Stamelou, E., Photogrammetric low altitude fieldwork in "Neolithic Thessaly (Greece)": potentials and issues, UAV Conference 2014: Big Work for Small Planes – Using UAVs and Kites for Archaeology, Organized by the ArchaeoLandscapes Europe Project (ArcLand) and the Berlin Free University Excellence Cluster Topoi, Topoi house Dahlem, Berlin, Germany, 23 – 24 May 2014.
- Sarris, A., Donati, J., Cantoro, G., Garcia, C.C., Kalayci, T., Simon, F-X., Manataki, M., Vouzaxakis, K., Rondiri, V., Arachoviti, P., Almatzi, K., Efstathiou, D, & Stamelou, E., Habitation Patterns of the Neolithic Agricultural Villages in Eastern Thessaly (Greece) Through Remote Sensing Applications, European Association of Archaeologists, 20th Annual Meeting, Istanbul, Turkey, 10-14 September, 2014
- Chalikias, K., Cantoro, G. 2013. "Modern Landscape Transformation in East Crete and its Negative Impact on the Cultural and Environmental Heritage: An Archaeological Approach with the Use of Aerial Imagery and Geospatial Data". Archaeological Institute of America - Annual Meeting, Session: 6H: Current Approaches in Heritage Policy and Conservation. Jan. 2013.
- Cantoro, G. 2012. "Fast and Automated Image Rectification with a Small (Free) Software", Aerial Archaeology Research Group News 2012.
- Cantoro, G. 2009. "Creating a Protocol for Mountainous Rocky Areas: Case-studies in Eastern Crete." In Proceedings of the AARG International Annual Meeting, 25-27 September 2009, edited by AARG, Siena.
- Cantoro, G. 2008. "A Modern Ikaros, Diagnostic Methodologies and New Approaches in Defined Contexts." In Proceedings of the AARG International Annual Meeting, 8-11 September 2008, edited by AARG, Ljubljana.
- Cantoro G., 2004. Panels for the exhibition "Cacciatori e Agricoltori Preistorici nella Valle del Fiora"- Viterbo 3 Aprile-2 Maggio 2004.

● DRIVING LICENCE

Driving Licence: B1

Driving Licence: B

● FUNDED PROJECTS

Fundings as PI

- 22nd Onassis Fellowships Program For International Scholars 2016-2017 (<http://www.onassis.org/en/scholarships-foreigners.php>);
- Principal Investigator (PI) per il progetto High-Above-the-Mountains, finanziato -dopo selezione nazionale- dal Research Centre for the Humanities (<http://www.rchumanities.gr/en/>);
- Co-PI per il primo ISAP (International Society for Archaeological Prospection) Fund award 2016 (<http://www.archprospection.org/isap-fund>);
- Borsa di studio e alloggio per gli studi di laurea dal 1996 al 2000.
- Borsa di Dottorato della Regione Puglia per il periodo 2007-2010.
- Research fellowship per periodo di studio in Grecia, dal Ministero degli Esteri, 2009.
- Research fellowship per periodo di studi in Slovenia, dal Ministero degli Esteri, 2008-2009.

● PEER REVIEW

Peer reviewer

Peer reviewer for: Computer Application and Quantitative Methods in Archaeology [International and Greek chapter]; Geosciences; SDH; Archeologia Aerea; Journal of Archaeological Prospections; Journal of Field Archaeology; Journal of Cultural Heritage; Remote Sensing; GeoArchaeology; Journal of Open Archaeological Data; Applied Science; Drones; GeoInformation; Heritage; IJERPH, Journal of Humanities, Art and Design; STAR; Sustainability; Urban Science.