

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n. 1 \_\_\_\_ posto/i di Ricercatore a tempo determinato in tenure track (RTT)

per il settore concorsuale 10/A1 - Archeologia,  
settore scientifico-disciplinare L-ANT/01 - Preistoria e Protostoria (ora gruppo scientifico-disciplinare  
10/ARCH-01 - Archeologia settore scientifico-disciplinare ARCH-01/A - Preistoria e protostoria)  
presso il Dipartimento di Dipartimento di Beni Culturali e Ambientali,  
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## Giusi Sorrentino



Place and date of birth  
Nationality

**Napoli (Italy), 1st July 1987**  
**Italian**

Permanent address

**Via L. Cherubini 5,  
50019 Sesto Fiorentino,  
Firenze (Italy)  
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PEC

### Current Position

From 1st Dec 2023

**Postdoc research grant (PRIN - SMarT4BioArCH)**  
**Ca' Foscari University of Venice (Italy)**

From 22nd Jan 2024

**Guest Scholar**  
**IMT school for advance study Lucca (Italy)**

### Education

31st Oct. 2023

**PhD cum laude**  
**MSCA PhD in "Technology Driven Sciences: Technologies for Cultural Heritage" (T4C)**  
University of Turin, Physics Department  
Research title: ***Retrieve a novel: new multi-scale surface texture analysis of ground stone tools (REVEAL)***

31st August 2022

**Percorso formativo 24 CFU DM616/2017**  
University of Turin

Sep. 2013 - July 2018	<b>M.A. Degree in Archaeology</b> University of Pisa - Department of Civilisations and Forms of Knowledge Thesis: <i>Exploring Ground Stone Tools. A case study from Ayia Varvara Asprokremnos (Cyprus).</i> Supervisors: Prof. Giampaolo Graziadio, Prof. Vincenzo Palleschi Degree grade: 110 with honours
Sep. 2008 – Feb. 2013	<b>B.A. Degree in Science of Cultural Heritage</b> University of Pisa - Department of Civilizations and Forms of Knowledge Thesis: <i>Analisi archeometriche sui reperti provenienti dalla necropoli etrusca il Pratino (Tuscania, VT)</i> Supervisor: Prof. Vincenzo Palleschi Degree grade: 107

## Professional experience

1st Nov. 2019 – 31st Jan. 2023	<b>H2020-MSCA-COFUND, G.A. nr. 754511 — PhD program in Technology Driven Sciences: Technologies for Cultural Heritage (T4C)</b> University of Turin
1st Jan. – 31st Dec. 2022	<b>Visiting scholar at MT School for Advanced Studies Lucca (Italy)</b>
2nd June 2015 – 1st Oct. 2019	<b>Assistant researcher</b> The Cyprus Institute - Science and Technology in Archaeology Research Center, Nicosia (Cyprus)

## Additional professional experience

Feb. 2022	<b>Beamtime at SYRMEP -Elettra Synchrotron Trieste</b>
Nov. 2021	<b>Beamtime at SISSI line - Elettra Synchrotron Trieste</b>
3 months during 2021-2023	<b>Secondment at Bruno Kessler Foundation (3DOM - FBK), Povo, Trento</b>
4 Oct. 2021	<b>Organizer and tutor – Experimental archaeology workshop</b> University of Turin, Physics Department
5 months during 2020-2022	<b>Secondment at Centro di Conservazione e Restauro La Venaria Reale, Venaria, Torino</b>
1 month during 2020	<b>Secondment at Museum of Ethnography and Natural History of Moldova</b>
14 Sep.-7 Oct. 2020	<b>Tutor to the laboratory “Nulla è come sembra nemmeno i colori”</b> The activity, addressed to secondary schools’ class, was organized by Next-Land project and held at the MAO in Torino

May-Oct 2019	<b>Coordination and administration for the conference ICAS-EMME2 Nicosia, Cyprus</b>
15-16 Mar. 2019	<b>Tutor - The sCyence Fair, Nicosia (Cyprus)</b>
2017-2018	<b>Participate in the EU project GRAVITATE</b> European Union's Horizon 2020 research and innovation program under grant agreement No 665155
2016 - 2017	<b>Participate in the EU project ARIADNE</b> Community's Seventh Framework Programme, contract no. FP7 INFRASTRUCTURES-2012-1-313193
July 2014	<b>Internship - Archaeological excavation of the Etruscan necropolis Pratino (Tuscania, VT)</b> Director: Prof. Stefano Giuntoli Centre for Ancient Mediterranean and Near Eastern Studies (Firenze)
2013-2014	<b>Tutor - Percorsi di scienza alle Terme di Montecatini</b> Supervisor: Prof. Vincenzo Palleschi

## Associations and memberships

Since 2023	<b>Member of UISPP</b>
Since 2022	<b>Member of the Association of Archaeological Wear and Residue Analysts (AWRANA)</b>
Since 2021	<b>Member of the Marie Curie Alumni Association</b>
Since 2020	<b>Italian Archaeometric Society (AIAr)</b>
2020-2023	<b>National Institute for Nuclear Physics (INFN)</b>

## Courses and further training activities

15 - 24 Nov. 2022	<b>School of Infrared and Raman Spectroscopies Applied to Cultural Heritage</b> Centro Conservazione e Restauro (CCR) "La Venaria Reale"
27-28 Jun. 2022	<b>IV School AIAr – Pigment in the mural painting: from macro to micro</b> University of Padua
10 - 12 Feb. 2021	<b>AMARCH 2021 - Analisi sui Materiali per l'ARChEologia e i beni culturali: Il contributo delle tecniche X</b> Laboratorio Bagolini di Archeologia, Archeometria e Fotografia del Centro di Alti Studi Umanistici (CeASUm)

9- 13 Nov. 2020	<b>Aldo Armigliato SEM School 2020</b> CNR-IMM Bologna
6 April 2020	<b>Basic ImageJ course</b> , by UniTo
21- 27 July 2019	<b>Summer School - PROMISED: Promoting Archaeological Science in the Eastern Mediterranean</b>
4 - 8 April 2016	<b>Erasmus+ Training</b> Centre de Recherché et de Restauration des Musées de France (C2RMF) <i>Characterization of use-wear traces on stone artefacts</i> Supervisor: Nicolas Melard
18 - 22 January 2016	<b>Summer School - Mapping existing datasets to CIDOC-CRM</b> PIN srl Servizi Didattici e Scientifici per l'Università di Firenze Supervisor: Prof. Franco Niccolucci
11 - 15 January 2016	<b>Training – Statistical Techniques for Data Processing</b> Institute of Chemistry of Organometallic Compounds - ICCOM- CNR- Pisa Supervisor: Prof Vincenzo Palleschi
January– May 2015	<b>Erasmus+ Training</b> The Cyprus Institute - Science and Technology in Archaeology Research Center <i>Study of soil from Hala Sultan Tekke with XRF to individuate areas of metals works. Study of pigment using different techniques including digital microscope, XRF, spectrophotometer. Elaboration of 3D models of Cypriot archaeological findings from the British Museum obtained from structure from motion (SFM) techniques.</i> Supervisor: Prof. Sorin Hermon
September 2013	<b>Archaeological excavation of an Early Prehistoric site</b> University of Pisa - Department of Civilizations and Forms of Knowledge <i>Excavation, cleaning and cataloguing of archaeological finds - Trasanella, Matera, Italy</i> Director: Prof. Giovanna Radi
April – June 2013	<b>Course of restoration of Etruscan pottery and metal objects from Pratino necropolis, Tuscania (VT)</b> CAMNES (Center for Ancient Mediterranean and Near Eastern Studies) Restorers: Barbara Morelli and Emilia Vaccari
April – June 2012	<b>Course of restoration of Etruscan pottery from Pratino necropolis, Tuscania (VT)</b> CAMNES (Center for Ancient Mediterranean and Near Eastern Studies) Restorers: Barbara Morelli and Emilia Vaccari
October 2010	<b>Campaign of classification, cataloguing and restoration of medieval artefacts</b> <b>University of Urbino “Carlo Bo”</b> <i>Classification, cataloguing and restoration medieval pottery and metal object</i>

*from Montecopiolo castle- Montefeltro, Pesaro Urbino, Italy*  
Director: Prof. Daniele Sacco

August 2009

**Archaeological excavation of the medieval castle of Montecopiolo  
University of Urbino“Carlo Bo”**

*Excavation, cleaning and cataloguing of archaeological finds from  
Montecopiolo castle- Montefeltro, Pesaro Urbino, Italy*  
Director: Prof. Daniele Sacco

July 2009

**Archaeological excavation of an Etruscan village  
University of Ferrara**

*Excavation, cleaning and cataloguing of archaeological finds from the  
Etruscan village in Rocca di Parlascio, Casciana Terme, Pisa, Italy*  
Director: Prof. Stefano Bruni

August 2008

**Archaeological excavation of a Bronze Age site  
University of Bologna**

*Excavation, graphic documentation, cleaning and cataloguing of  
archaeological finds from the Bronze Age site in Mursia, Pantelleria, Trapani,  
Italy*  
Director: Prof. Maurizio Cattani

## Language skills

Mother tongue: Italian

English: B2

## Publications

**2024**

Sorrentino G., Longo L., Lo Giudice A., Re A., Paggi M.  
**Replicative experimental use of Palaeolithic Ground Stone Tools: Tracing and quantifying wear.**  
**Journal of Archaeological Science: Reports, 57, 104669.**  
<https://doi.org/10.1016/j.jasrep.2024.104669>

**2023**

Sorrentino G., Menna F., Remondino F., Paggi M., Longo L., Borghi A., Re A., Lo Giudice A.  
**Close-range photogrammetry reveals morphometric changes on replicative ground stones.**  
**PLoS ONE 18(8): e0289807**  
<https://doi.org/10.1371/journal.pone.0289807>

Giusi Sorrentino.  
**Raw Data Examples for Close-Range Photogrammetry of Replicative Experiments on Ground Stone Tools  
[Data set]. In PLOS ONE. Zenodo.**  
<https://doi.org/10.5281/zenodo.8196541>

G. Sorrentino, L. Longo, T. Obada, A. Borghi, A., Re, M. Paggi, A. Lo Giudice.

**Tracing Old Gestures: A Multiscale Analysis of Ground Stone Tools Developed on Sequential Lab-Controlled Replicative Experiments.**

**Heritage, 6, 4737-4767.**

<https://doi.org/10.3390/heritage6060252>

**Cover –story of the Heritage 2023, 6 (6):** <https://www.mdpi.com/2571-9408/6/6>

*Marulli M.R., Sorrentino G., Menna F., Paggi M.*

**Digital twin models of replicative ground stones: insight into simulating usage of Upper Paleolithic tools.**

**Scientific Reports, 13, 18298**

<https://doi.org/10.1038/s41598-023-45425-4>

*Polig M., Hermon S., Jusseret S., Sorrentino G., Driessen J., Kanta A., Bretschneider J.*

**High-Resolution 3D Documentation of Archaeological Artefacts. A Copper-Alloy Object from Pyla-Kokkinokremos (Cyprus) as a Case-Study.**

**In: The Ancient World Goes Digital, Chapter 2. The Netherlands: Brill, Leiden.**

[https://doi.org/10.1163/9789004527119\\_004](https://doi.org/10.1163/9789004527119_004)

*D. Nykonenko, O.Yatsuk, L. Guidorzi, A. Lo Giudice, F. Tansella, L. Pia Cesarea, G. Sorrentino, P. Davit, M. Gulmini, A. Re*

**Glass beads from a Scythian grave on the island of Khortytsia (Zaporizhzhia, Ukraine): insights into bead making through 3D imaging.**

**Heritage Science 11, 238.**

<https://doi.org/10.1186/s40494-023-01078-0>

*Birarda G., Badetti E., Cagnato C., Sorrentino G., Pantyukhina I., Stani C., Dal Zilio S., Khlopachev G., Covalenco, Obada T., Skakun N., Sinytsin N., Terekhina V., Marcomini A., Lubritto, Vaccari E., Longo L.*

**Morpho-chemical characterization of individual ancient starches from Paleolithic Pontic Steppe ground stones.**

**Scientific Reports, 13, 21713**

<https://doi.org/10.1038/s41598-023-46970-8>

## 2022

*G. Sorrentino, A. Lo Giudice, A. Re, A. Borghi, L. Longo*

**Più di un semplice ciottolo: Esperimenti in condizioni controllate per la trasformazione di piante.**

**Archeologie Sperimentali: Temi, Metodi, Ricerche.**

<https://doi.org/10.13135/2724-2501/6616>

*L. Longo, G. Birarda, C. Cagnato, E. Badetti, S. Covalenco, I. Pantyukhina, N. Skakun, L. Vaccari, V. Terekhina, G. Sorrentino*

**Coupling the beams: How controlled extraction methods and FTIR-spectroscopy, OM and SEM reveal the grinding of starchy plants in the Pontic steppe 36,000 years ago**

**Journal of Archaeological Science: Reports, 41, 103333**

<https://doi.org/10.1016/j.jasrep.2021.103333>

## 2021

*L. Longo, N.N. Skakun, E. Pantyukhina, V. Terekhina, G. Sorrentino*

**Aurignacian grinding stone from Surein I (Crimea): “trace-ing” the roots of starch-based diet**

**Journal of Archaeological Science: Reports, 38, 102999**

<https://doi.org/10.1016/j.jasrep.2021.102999>

L. Longo, S. Altieri, G. Birarda, C. Cagnato, V. Graziani, T. Obada, I. Pantyukhina, P. Ricci, N. Skakun, G. Sorrentino, V. Terekhina, L. Tortora, L. Vaccari, C. Lubritto

**A Multi-Dimensional Approach to Investigate Use-Related Biogenic Residues on Palaeolithic Ground Stone Tools.**

**Environmental Archaeology**

<https://doi.org/10.1080/14614103.2021.1975252>

G. Sorrentino, A. Lo Giudice, A. Re, A. Borghi, L. Longo

**Replicate Plant Processing REVEALS Ground Stones complex Biography**

**YouTube video:** <https://youtu.be/vvJLDTX13Fo?feature=shared>

Sorrentino G.

**La superficie degli utensili di pietra rivela la lunga strada verso... la pizza!**

**Frida: Forum della Ricerca di Ateneo**

## 2020

Birarda G., Cagnato C., Cefarin N., Stani C., Pantyukhina I., Badetti E., Covalenco S., Marcomini A., Obada T., Sava E., Sorrentino G., Skakun N., Vaccari L., Longo L.

**Direct morpho-chemical characterization of elusive plant residues from Aurignacian Pontic Steppe ground stones: supper's ready for Homo sapiens.**

**BioRxiv**

<https://doi.org/10.1101/2020.07.23.212324>

Nikita E. et al.

**Science and Technology in Archaeology and Culture Research Center Archaeological Science Classroom Activities**

**Book chapter**

**ISBN: 978-9925-7759-0-3**

Nikita E. et al.

**Αρχαιολογικές Επιστήμες: ΣΧΟΛΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ**

**Book chapter**

**ISBN: 978-9963-2858-8-4**

## 2019

G. Guarducci, V. Palleschi, M. Lezzerini, S. Pagnotta, G. Gallelo, E. Grifoni, S. Legnaioli, G. Lorenzetti and G. Sorrentino

**Pottery Sherds Analyses. In: Nairi Lands.**

**Book chapter**

<https://doi.org/10.2307/j.ctv138ws3b>

G. Sorrentino

**L'industria in pietra levigata di Ayia Varvara Asprokremmos (Cipro): un'analisi a ingrandimenti crescenti  
Ricerche italiane in Egeo – PANORAMA conference**

McCartney C., Sorrentino G.

**Ayia Varvara Asprokremmos – a preliminary analysis of stone tools used in pigment processing and ochre**

**tanning of hide.**

**In: Astruc, L.; McCartney, C.; Briois, F.; Kassianidou, V. (eds), *Near Eastern Lithic Technologies on the Move. Interactions and Contexts in Neolithic Traditions*. Nicosia: Astrom Editions, *Studies in Mediterranean Archaeology*, 150, 63-78. ISBN: 9789925745531**

## 2018

Biasotti S., Moscoso Thompson E, Bathe L., Berretti S., Giachetti A., Lejemble T., Mellado N., Moustakas K., Tortorici C., Velasco Forero S., Werghi N., Polig M., Sorrentino G., Hermon S.

**Recognition of geometric patterns over 3D models.**

**Telea A. and Theoharis T. (eds). *SHREC'18 track: Recognition of geometric patterns over 3D models*.**

**DOI: [10.2312/3dor.20181055](https://doi.org/10.2312/3dor.20181055)**

Longo I., Skakun N., Sorrentino G., Vassallo V., Abate D., Terehina V., Sinitsyn A., Khlopachev G., Hermon S.  
**Les gestes retrouvés: a 3D visualization approach to the functional study of Early Upper Palaeolithic ground stones.**

**In: Matsumoto M. and Uleberg E. (eds). *Oceans of Data. Proceedings of the 44th Conference on Computer Applications and Quantitative Methods in Archaeology*. Archaeopress and the authors 2018.**

**ISBN 978 1 78491 730 2**

Vassallo V., Sorrentino G., Gasanova S., Hermon S.

**Integrating Analytical with Digital Data in Archaeology: Towards a Multidisciplinary Ontological Solution. The Salamis Terracotta Statues Case-Study.**

**In: Matsumoto M. and Uleberg E. (eds). *Oceans of Data. Proceedings of the 44th Conference on Computer Applications and Quantitative Methods in Archaeology*. Archaeopress and the authors 2018.**

**DOI: <https://doi.org/10.2307/jj.15135958.15>**

E. Moscoso, S. Biasotti, G. Sorrentino, M. Polig, S. Hermon

**Towards an Automatic 3D Patterns Classification: the GRAVITATE Use Case.**

**Eurographics Workshop on Graphics and Cultural Heritage 2018**

**<https://doi.org/10.2312/qch.20181372>**

## 2017

Hafez I.T., Sorrentino G., Faka M., Cuenca-García C., Makarona C., Charalambous A., Nys K., Hermon S.

**Geochemical survey of soil samples from the archaeological site Dromolaxia-Vyzakia (Cyprus), by means of micro-XRF and statistical approaches.**

**Journal of Archaeological Science: Reports, 11, 447-462**

**<https://doi.org/10.1016/j.jasrep.2016.12.023>**

## 2015

Sorrentino G., Grian Cristofaro C., Pagnotta S., Legnaioli S., Grifoni E., Lorenzetti G., Palleschi V.

**Fotogrammetria e ricostruzione tridimensionale dello specchio in bronzo T1/33.**

**In: Giuntoli S. (Eds.). *Le Necropoli Etrusche di Macchia della Riserva a Tuscania 1. Pian delle Rusciare. Studies on the Ancient Mediterranean and the Near East 1 (SANEM)*. Arbor Sapientiae Editore, Sanem. EAN: 9788897805410**

Sorrentino G., Benedetto A., Grifoni E., Legnaioli S., Lorenzetti G., Marras L., Pagnotta S., Palleschi V.

**Analisi dei reperti metallici con metodi archeometrici.**

**In: Giuntoli S. (Ed); *Le Necropoli Etrusche di Macchia della Riserva a Tuscania 1. Pian delle Rusciare***

**Studies on the Ancient Mediterranean and the Near East 1 (SANEM). Studies on the Ancient Near East and**



*the Mediterranean. Arbor Sapientiae Editore, Sanem.*  
EAN: 9788897805410

Sorrentino G., Giuntoli S., Lezzerini M., Grifoni E., Legnaioli S., Lorenzetti G., Pagnotta S., Palleschi V.  
[Classification Studies on Etruscan Archaeological Copper-Based Alloy Findings from the Necropolis of 'Pratino' in Tuscany](#)  
*Journal of Applied and Laser Spectroscopy*, 2 (1), 15-19

2014

Sorrentino G., Giuntoli S., Lezzerini M., Legnaioli S., Lorenzetti G., Cavalcanti G.H, Palleschi V.  
*Spectroscopic studies on Etruscan archaeological findings*  
*In: Proceeding of the 6th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin, 2013, Athens; VALMAR – Centro Copie l'Istantanea, Roma*  
ISBN 978-88-97987-03-1

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## Conference and workshop

**SAA 89th Annual Meeting**  
New Orleans, Louisiana  
17-21 April 2024

G. Sorrentino, A. Lo Giudice, M. Veronese, E. Badetti, L. Longo  
**Replicating Plant Processing: Insights into Ancient Diets and Perishable Technologies**

**Thematic Congress AIAR**  
Milan, Italy  
7-9 Feb. 2024

G. Sorrentino, L. Longo  
**New radiocarbon dates reveal Brînzești I cave's oldest past**

G. Sorrentino, M. Marulli, F. Menna, A. Re, A. Lo Giudice, M. Paggi, L. Longo  
**Establishing an archaeological experimental collection: Exploring Ground Stone Tools analysis through different settings**

**XX UISPP World Congress**  
Timisoara, Romania  
5-9 Sep. 2023

G. Sorrentino, L. Longo, M. Paggi, F. Menna, A. Borghi, T. Obada, A. Re, A. Lo Giudice  
**Analyzing Surface Texture Modification of GSTs in Sequential Experiments through Integrated Imaging Techniques**

L. Longo, M. Veronese, C. Cagnato, A. Tetruashvili, G. Sorrentino, E. Badetti, A. Marcomini, M. Meneghetti, G. Artioli  
**Unexpected hints into the transformative potentials of macro-lithic tools by Homo sapiens in the Caucasus**

**XII National Congress AIAR**  
Messina, Italy  
19-21 Apr. 2023

G. Sorrentino, A. Lo Giudice, A. Re, A., L. Longo, F. Remondino, F. Menna  
**3D morphometric analysis to trace surface depletion in ground stone tools replicative usage**

**Thematic Congress AIAR**  
Padua, Italy  
29 Jun. - 1 Jul. 2022

G. Sorrentino, L. Vigorelli, A. Re, L. Longo, M. Paggi, F. Menna, A. Karami, L. Mancini, A. Lo Giudice  
**3D multimodal and multiscale approach for the study of Upper Paleolithic ground stone tools**

<b>III AWRANA conference</b> <b>Barcelona, Spain</b> 5-8 Apr. 2022	<i>G. Sorrentino, L. Longo, T. Obada, M. Paggi, A. Borghi, A. Re, A. Lo Giudice</i> <b>Multiscale Surface Texture Analysis for Early Upper Paleolithic macrolithic tools</b>
	<i>L. Longo, C. Cagnato, L. Comis, G. Sorrentino</i> <b>The devil is in the details: why increasing transparency on tool biography, sampling, experiment set-up and analytical techniques is as relevant as the results.</b>
<b>Seminar</b> IMT School of Advance study Lucca, Italy 4 April 2022	<i>G. Sorrentino</i> <b>A history carved in stones: multi-scales approaches for surface texture analysis</b>
<b>II International Workshop on Heritage Stones</b> <b>Turin, Italy</b> 5-7 Oct. 2021	<i>G. Sorrentino, A. Lo Giudice, A. Re, L. Vigorelli, A. Borghi, M. Paggi, L. Longo</i> <b><i>The (Pre)history Carved in Stones: Examples from Brînzei I Cave (Moldova).</i></b>
	<b><i>Chairing the session "Heritage Stones Worldwide"</i></b>
<b>XIX UISPP World Congress</b> <b>Meknes, Morocco</b> 2-7 Sep. 2021	<i>L. Longo, E. Badetti, G. Birarda, C. Cagnato, A. Tetruashvili, G. Sorrentino</i> <b>Experiments across disciplines: unfolding starchy plant processing with pebble tools during the EUP in the Eurasian Steppe</b>
<b>XI National Congress AIAr</b> <b>Naples Italy</b> 29 Jul. 2021	<i>G. Sorrentino, A. Lo Giudice, A. Re, A. Borghi, R. Damiano, E. Diana, T. Obada, M. Paggi, L. Longo</i> <b>A multi-layered study of ground stone tools surface: the case study of Brînzei</b>
	<i>L. Longo, E. Badetti, G. Birarda, C. Cagnato, F. C. Izzo, A. Marcomini, L. Vaccari, G. Sorrentino</i> <b>Molecular Gastronomy and Human Evolution</b>
<b>XII Experimental Archaeology Conference (EXARC)</b> Online, 29- Mar.- 1 Apr. 2021	<i>G. Sorrentino, A. Lo Giudice, A. Re, A. Borghi, L. Longo</i> <b>Replicate Plant Processing REVEALS Ground Stones complex Biography</b>
<b>ICAS-EMME2</b> <b>Nicosia, Cyprus</b> 12-14 Nov. 2019	<i>G. Biranda, L. Vaccari, N. Cefarin, C. Cagnato, I. Pantushina, N. Skakun, C. Lubritto, G. Sorrentino, L. Longo</i> <b>STARCH: at the origins of starch food diet. SR-FTIR and SEM applied to Palaeolithic Grinding Stones from the Pontic area</b>
<b>Thematic Congress AIAr</b> <b>Reggio Calabria, Italy</b> 27-29 Mar. 2019	<i>Longo L., Ricci P., Skakun N., Terehina V, Sorrentino G. Vaccari L., Birada G., Cefarin N, Tortora L., Cagnato C, Covalenco S, Obada T., Altieri S., Lubritto C</i> <b>"Stone tools as bioarchives" an integrated multi-scale contextual approach</b>
<b>Nicosia, Cyprus</b> 15-16 Mar. 2019	The sCyence Fair Archaeological science-themed activities
<b>Fair of European Innovators in Cultural Heritage</b>	<i>Modafferi S., Sorrentino G.</i> <b>GRAVITATE: Geometric Reconstruction And noVel semantic reunificaTion</b>

Brussel, Belgium  
15-16 Nov. 2018

**of cultural heritage objects**

**XXXVII Annual CAARI  
Archaeological Workshop**  
Nicosia, Cipro  
16 Jun. 2018

*Sorrentino G., Gasanova S., Hermon S., Polig M., Jusseret S., Driessen J.,  
Kanta A., Bretschneider J.*

**Seeing the un-seen: 3D, imaging and chemical interrogations of an  
alabaster vessel**

*Hermon S., Polig M., Sorrentino G., Gasanova S., Jusseret S., Driessen J.,  
Kanta A., Bretschneider J.*

**STAR-LAB - in-situ science and technology investigations of archaeological  
material at Pyla-Kokkinokremos**

**Centre for Digital Heritage  
meeting**  
Lund, Sweden  
18-20 Jun. 2018

*Polig M., Hermon S., Sorrentino G., Modafferi S.*

**GRAVITATE - an integrated approach for the study of dispersed cultural  
collections based on semantic and geometric tools.**

**XVIII UISPP World Congress**  
Paris, France  
4-9 Jun. 2018

*Longo L., Skakun N., Terekhina V., Sorrentino G., Pantuhkina G., Cagnato C.,  
Covalenco S., Obada T., Hussain Q., Ong G., Ong I., Tung W., Birada G.,  
Tortora L., Vaccari L.*

**Szeletian grinding stones and pestles from Brînzești I cave, lev. III**

**SHREC2018**  
Delft, Netherlands  
15-16 Apr. 2018

*Moscoso E., Biasotti S., Sorrentino G., Polig M., Hermon S.*

**Recognition of geometric patterns over 3D models**

**Computer Applications and  
Quantitative Methods in  
Archaeology Conference  
(CAA)**  
Tübingen, Germany  
19-23 Mar. 2018

*Hermon S., Spagnuolo M., Catalano E., Sorrentino G., Polig M., Modafferi S.*  
**Novel approaches to the re-assembly, re-association and re-unification of  
cultural heritage collections – The GRAVITATE project solution**

*Hermon S., Polig M., Sorrentino G., Bashevoy M., Modafferi S.*

**GRAVITATE – A tool for the reunification of cultural heritage objects**

*Polig M., Hermon S., Jusseret S., Driessen J., Sorrentino G., Kanta A.,  
Bretschneider L.*

**Virtual Experimentation - Reasoning on the original appearance and use  
of an extraordinary archaeological find from Pyla-Kokkinokremos (Cyprus)  
with high-resolution 3D models**

**VIII World Archaeological  
Congress**  
Kyoto, Japan  
28 Aug. – 2 Sep. 2016

*Longo L., Skakun N., Sinitsyn A., Khlopachev G., Sorrentino G., Hermon S.*  
**Functional analysis on Aurignacian grinding stones: Unfolding the  
complexity of nutrition at the dawn of modern humans in Europe**

**II International Conference on  
Science and Engineering in  
Arts, Heritage, and**

*Longo L., Skakun N., Sorrentino G., Abate D., Sinitsyn A., Khlopachev G.,  
Hermon S.*

**Unfolding the complexity of nutrition at the dawn of modern humans. A**

## **Archaeology**

Oxford, UK

20 – 21 Jun. 2016

## **multi-layered digital 3D storytelling approach**

### **Computer Applications and Quantitative Methods in Archaeology Conference (CAA)**

Oslo, Norwegian

29 Mar. - 2 Apr. 2016

*Longo I., Skakun N., Sorrentino G., Vassallo V., Abate D., Terehina V., Sinitsyn A., Khlopachev G., Hermon S.*

***Les gestes retrouvés: a 3D visualisation approach to the functional study of Early Upper Palaeolithic grinding stones***

*Vassallo V., Sorrentino G., Gasanova G., Hermon S.*

**Integrating Analytical with Digital Data in Archaeology: Towards a Multidisciplinary Ontological Solution. The Salamis Terracotta Statues Case-Study**

### **Computer Applications and Quantitative Methods in Archaeology Conference (CAA)**

Siena, Italy

30 Mar. – 3 Apr. 2015

*Sorrentino G., Benedetto A., Grifoni E., Legnaioli S., Lorenzetti G., Marras L., Pagnotta S., Palleschi V.*

**3D reconstruction and elemental analysis of the Etruscan “Telephus mirror” of Tuscania**

### **I Workshop ALS - Laboratorio Take-Away**

Pisa, Italy

2 July 2014

*Sorrentino G.*

**Le necropoli etrusche di Tuscania: analisi XRF e LIBS sui reperti**

### **III RIO Symposium on Atomic Spectrometry**

Merida, Yucatan, Mexico

19-25 Oct. 2014

*Sorrentino G., Giuntoli S., Benedetto A., Lezzerini M., Grifoni M., Legnaioli S., Lorenzetti G., Pagnotta S., Palleschi V.*

**X-Ray Fluorescence analysis of Etruscan archaeological findings from Pratino Necropoli, Tuscania (VT)**

### **IV International Conference Diagnosis Conservation and Valorization of the Cultural Heritage**

Napoli, Italy

12-13 Dec. 2013

*Sorrentino G., Giuntoli S., Lezzerini M., Carpenters S., Lorenzetti G., Cavalcanti G.H., Palleschi V.*

**Spectroscopic studies on Etruscan archaeological findings**

*Pagnotta S., Arias C., Legnaioli S., Lorenzetti G., Sorrentino G., Lezzerini M., Radi G., Palleschi V.*

*SOM based algorithm for clustering archaeological pottery: an improvement of the p-Kmeans technique applied to the LIBS integral intensity database*

### **VI International Congress Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin**

*Sorrentino G., Giuntoli S., Lezzerini M., Carpenters S., Lorenzetti G., Cavalcanti G.H., Palleschi V.*

**Spectroscopic studies on Etruscan archaeological findings**

Aten, Greece  
22-25 Oct. 2013

**XXXVIII International  
Colloquium Spectroscopicum**  
Tromsø, Norwegian  
16-20 Jun. 2013

*Sorrentino G., Giuntoli S., Lezzerini M., Carpenters S., Lorenzetti G.,  
Cavalcanti G.H, Palleschi V.*

**Spectroscopic studies on Etruscan archaeological findings**

Data

14/07/2024

Luogo

Venezia