

## PERSONAL INFORMATION



## Alessia Brucato



## Email

alessia.brucato@uniba.it



## International Scientific ID

ORCID - <https://orcid.org/0000-0002-2762-8469>

IRIS - [rp57530](https://iris.uniba.it/ris/record/57530)

ResearchGate - <https://www.researchgate.net/profile/Alessia-Brucato>

Academia - <https://uniba-it.academia.edu/AlessiaBrucato>



## Webpage

CNR ISPC - <https://uniba-it.academia.edu/AlessiaBrucato>

UNIBA DIRIUM - <https://www.uniba.it/it/ricerca/dipartimenti/dirium/postlaurea/exd/dottorandi-2021-2022/alessia-brucato>

*Archaeologist working within international academic research teams in North Africa. Master's degree in Near Eastern Prehistoric Archaeology. Currently enrolled in a Ph.D. course at the University of Bari Aldo Moro with a research project about Machine Learning and Remote Sensing applications in Archaeology.*

## CURRENT ACADEMIC POSITION

2022 - 2025	Ph.D. Candidate in Archaeology / Dottoranda in Archeologia – UNIBA DIRIUM, CNR ISPC, POLIBA
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## EDUCATION

## ACADEMIC DEGREES

2017	M.A. in Archaeology / LM in Archeologia e Culture del Mondo Antico – UNIBO
2015	B.A. in Classics / L in Lettere Classiche – UNIPA

## WORKSHOPS, SCHOOLS, CLASSES, SEMINARS, CONFERENCES

2023/2024	(conference) <i>UISPP2023 – Exploring the world Prehistory XX world Congress –</i>
2023	(conference) <i>EAA2023 – Weaving Narratives 29<sup>th</sup> Annual Meeting</i>
2023	(conference) <i>AENT2023 – 2<sup>nd</sup> International Conference on Ancient Egypt and Digital Humanities</i>
2023	(conference) <i>POZNAN2023 – From foragers to farmers in Northeastern Africa</i>
2023	(conference) <i>CAA2023 - 50 years of Synergy</i>
2023	(seminars) <i>PASAP_Med 2022 – UNIBA DIRIUM, CNR ISPC, POLIBA</i>
2022	(workshop) <i>GIS for Archaeological Applications – private</i>
2022	(workshop) <i>3D Modeling &amp; BIM 2022 – UNIROMA1</i>
2022	(class) <i>Public Speaking and Scientific Writing – UNIBA</i>
2022	(class) <i>Python per il Calcolo Scientifico – UNIBA</i>
2022	(seminars) <i>PASAP_Med 2022 – UNIBA DIRIUM, CNR ISPC, POLIBA + UNIROMA3</i>
2022	(class) <i>Preistoria e Protostoria – UNIOR</i>
2022	(lecture) <i>Wadi Rasras: An exceptional rock art site in desert east of Aswan – MAECI ICIC IAC</i>
2022	(lecture) <i>Analisi funzionali e dei residui in archeologia. Casi studio africani – UNIOR</i>
2021-2022	(courses) <i>remote sensing, programming, machine learning – Coursera</i>
2022	(conference) <i>ESALPS2022 – Taking the Pulse of our Planet from Space</i>
2022	(conference) <i>CAA2022 – iNSIDE iNFORMNATION</i>
2022	(conference) <i>UQ2022 – Tecnologie Open Source per i Beni, le Attività Culturali e il Turismo</i>
2022	(conference) <i>EEAR-CSIC2022 – Mesolithic-Neolithic Transition</i>
2022	(conference) <i>Terzo Convegno Internazionale di Archeologia Aerea 2022 – Città Invisibili. Remote e Proximal Sensing in Archeologia: Metodi non Invasivi per lo studio delle città antiche</i>
2022	(conference) <i>Iperion HS 8° Webinar 2022</i>
2019	(school) <i>Acquiring and post-processing 3D data in Anthropology and Archaeology – Summer School</i>
2018	(school) <i>Dal 3D al GIS Marzo 2018 – Summer School</i>
2017	(fieldwork school) <i>Geophysics Surveys – Suasa e Corinaldo – DISCI UNIBO</i>
2015	(fieldwork school) <i>Excavation and Documentation – Mozia – UNIPA</i>

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**RESEARCH**


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**ACADEMIA AND INSTITUTIONS**

Present	OBAP – ISMEO
Present	FOPP – ISMEO
Present	AKAP – UNIBO, YALE
Present	Team of Geo-Analytics – PLANETEK ITALIA s.r.l.
Present	Laboratory of Computational Archaeology – GIAP ICAC CEICS
Present	Gruppo di ricerca di Preistoria e Protostoria, DHILab, Archaeological Mapping Lab, AirLab – CNR ISPC, E-RIHS.it
Present	Patrimoni Archeologici, Storici, Paesaggistici e Architettonici Mediterranei - UNIBA

**ARCHAEOLOGICAL FIELDWORK**

2023	FOPP 2023 – ISMEO
2022	AKAP 2022 – UNIBO, YALE
2020	AKAP 2020 – UNIBO, YALE
2019	EDSP 2019 – YALE
2019	SAP 2019 – UCLA Cot_IA, IFR
2018	AKAP 2018 – UNIBO, YALE
2016	Heuneburg, Alte Burg, Große Heuneburg, other sites – LDR Struttgart

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**PUBLICATIONS AND DISSEMINATION**


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**SCIENTIFIC PEER-REVIEWED PAPERS**

2023	<i>Le analisi automatizzate delle immagini satellitari per la ricerca e tutela dei beni archeologici. Review di tre casi studio in ambiente arido.</i>
2022	<i>The site of Nag el-Hamdulab in 360°. An alternative way to experience a story from the past</i>

**SCIENTIFIC PEER-REVIEWED ABSTRACTS**

2022	<i>Archeologia Spaziale: Il telerilevamento per lo studio e la salvaguardia del patrimonio culturale attraverso gli Open Data e gli strumenti FLOSS</i>
2022	<i>Application of machine learning algorithms on satellite imagery for the detection of potential new prehistoric sites in the Egyptian Western Desert</i>

**OTHER MEDIA PUBLICATIONS**

<i>Forthcoming</i>	<i>Ancient Mesopotamia Speaks in 360° – YALE Peabody Museum, CH360</i>
2023	<i>The Rock Art Site of Nag el Hamdulab in 360° – AKAP, YALE</i>
2019	<i>The Pregnant Woman (Sheik Mohammed 14, Tomb 24) – Egypt's Unexplained Files: Finding Nefertiti – Contents in Documentary Series</i>

**CONFERENCES**

2023/2024	<i>UISPP2023 – Exploring the world Prehistory XX world Congress – Session Challenges of satellite remote sensing applications in detecting and interpreting prehistoric contexts in Saharan North Africa</i>
2023	<i>EAA2023 – Weaving Narratives 29<sup>th</sup> Annual Meeting - S507.1891 Automatic satellite-based detection and monitoring of quarrying activities in high-risk archaeological areas of central Sicily</i>
2023	<i>AENT2023 – 2<sup>nd</sup> International Conference on Ancient Egypt and Digital Humanities</i>
2023	<i>POZNAN2023 – From foragers to farmers in Northeastern Africa - Satellite remote sensing detection of Early Mid Holocene slab structure sites of forager-herder groups in the Egyptian Western Desert</i>
2023	<i>CAA2023 - 50 years of Synergy - S34.383 Remote sensing based approaches for the automatic extraction and characterization of archaeological looting features: the coastal desert of Peru</i>
2023	<i>CAA2023 - 50 years of Synergy - S34. Computational Approaches and Remote Sensing Applications in Desertic Areas</i>
2022	<i>Festival della Scienza – I Linguaggi delle Scienze del Patrimonio: dal macro al micro – Visione dall'Alto</i>
2022	<i>CAA2022 – iNSIDE iNFORMATION - S.14.108 Application of ML algorithms on satellite imagery for the detection of potential new prehistoric sites in the Egyptian Western Desert</i>
2022	<i>ESALPS2022 – Taking the Pulse of our Planet from Space - D2.12.2 Machine Learning based approach for satellite detection of potential new archaeological sites linked to the mobility of prehistoric groups in the Egyptian Western Desert</i>
2021	<i>UQ2021 – Nuove tecnologie open source per la gestione dei beni, delle attività culturali e del turismo – Sessione Siti Archeologici – Machine Learning applications for satellite imagery analyses in Archaeological research and Cultural Heritage monitoring. A Review</i>

2019	<i>IFAO2019 – Clamour from the past – Session Graffiti, rock inscriptions and secondary epigraphy from Ancient Egypt – Digital Documentation and Virtual Reality: A New Storytelling for Egyptian Rock Art and Inscriptions</i>
2019	<i>AENT2019 INDIANA – 1<sup>st</sup> International Conference on Ancient Egypt and Digital Humanities – Digital Documentation and Virtual Reality: A New Form of Storytelling for Egyptian Rock Art and Inscriptions</i>
2018	<i>IFRAO2018 - 20th International Rock Art Congress - The Rock Art Site of Nag el-Hamdulab</i>

## TEACHING AND TUTORSHIPS

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### TUTORSHIPS

2023	Co-tutor B.A. Thesis / Co-tutor Tesi Triennale - UNIOR
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### LECTURES

2019	<i>SAP2019 UCLA IFR – Topography and Photogrammetry in Archaeology</i>
2018	<i>AKAP2018 AASTMT – Topography and Photogrammetry in Archaeology</i>

## WORK

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Present	<i>CH360 – Co-Founder</i>
2023	<i>Digital Restoration – Necropolis of Santa Flavia – CH360</i>
2022	<i>STP 2022 – IKSIO PAN</i>
2021	<i>BSP 2022 – IKSIO PAN</i>
2021	<i>Archeologia preventiva – Imola – Studio Associato Malfitano Negri</i>
2021	<i>Archeologia preventiva – Ozzano, Bologna, Imola, Modena – Soc. Coop. Archeologia</i>
2021	<i>Virtual Tour – San Girolamo della Certosa – CH360, Fondazione del Monte</i>
2019	<i>Archeologia preventiva – Gatteo – Ante Quem – Coop. Archeologica</i>

# ALESSIA BRUCATO

## Nota informativa Pubblicazioni e Conferenze

### PUBLICATIONS AND DISSEMINATION (DURING PH.D. PERIOD)

#### SCIENTIFIC PEER-REVIEWED PAPERS

- 2023 ***Le analisi automatizzate delle immagini satellitari per la ricerca e tutela dei beni archeologici. Review di tre casi studio in ambiente arido.***  
A. Brucato, in *Atti del Convegno Unaquantum 2021, UQ2021, Roma, 2021*
- 2022 ***The site of Nag el-Hamdulab in 360°. An alternative way to experience a story from the past***  
Urcia A., Brucato A., Gatto M.C., Curci A., in *Rock Art Research in the Digital Era, Case Studies from the 20th International Rock Art Congress IFRAO 2018, Valcamonica (Italy)*, BAR Publishing, Archaeology of Prehistoric Art, 5, S3098, ISBN: 9781407360119, p 135

#### SCIENTIFIC PEER-REVIEWED ABSTRACTS

- 2022 ***Archeologia Spaziale: Il telerilevamento per lo studio e la salvaguardia del patrimonio culturale attraverso gli Open Data e gli strumenti FLOSS***  
Guarino G., Brucato A., in *UQ2022 Abstract, Sessione Territorio e Telerilevamento*, p 19
- 2022 ***Application of machine learning algorithms on satellite imagery for the detection of potential new prehistoric sites in the Egyptian Western Desert***  
Brucato A., Masini N., Scardozzi G., Lucarini G., in *CAA 2022 Abstract Book*, Oxford, S14.108, pp 74-76

#### OTHER MEDIA PUBLICATIONS

- Forthcoming Ancient Mesopotamia Speaks in 360° – YALE Peabody Museum, CH360***  
Urcia A., Brucato A., Brener E. – Interactive Web Exploration
- 2023 ***The Rock Art Site of Nag gel Hamdulab in 360° – AKAP, YALE***  
Urcia A., Brucato A., Gatto M.C., Curci A. – Interactive Web Exploration

#### CONFERENCES

- 2023/2024 ***UISPP2023 – Exploring the world Prehistory XX world Congress – Session Challenges of satellite remote sensing applications in detecting and interpreting prehistoric contexts in Saharan North Africa***  
A. Brucato, N. Masini, G. Lucarini – Chairs and Reviewers (Timișoara, Romania)
- 2023 ***EAA2023 – Weaving Narratives 29<sup>th</sup> Annual Meeting - S507.1891 Automatic satellite-based detection and monitoring of quarrying activities in high-risk archaeological areas of central Sicily***  
G. Guarino, A. Brucato, D. Tapete, N. Masini – Author (Belfast, Ireland)
- 2023 ***AENT2023 – 2<sup>nd</sup> International Conference on Ancient Egypt and Digital Humanities***  
S. Facciani, A. Brucato, A. Urcia, A. Curci, M.C. Gatto – Authors (Naples, Italy)
- 2023 ***POZNAN2023 – From foragers to farmers in Northeastern Africa - Satellite remote sensing detection of Early Mid Holocene slab structure sites of forager-herder groups in the Egyptian Western Desert***  
A. Brucato, D. Dell'Aquila, N. Masini, G. Scardozzi, G. Lucarini - Authors (Warsaw, Polonia)
- 2023 ***CAA2023 - 50 years of Synergy - S34.383 Remote sensing based approaches for the automatic extraction and characterization of archaeological looting features: the coastal desert of Peru***  
A. Brucato, N. Masini, R. Lasaponara – Authors (Amsterdam, Netherlands)

- 2023 **CAA2023 - 50 years of Synergy - S34. Computational Approaches and Remote Sensing Applications in Desertic Areas**  
A. Brucato, N. Masini, R. G. Scardozzi, G. Lucarini - Reviewers and Chairs (Amsterdam, Netherlands)
- 2022 **Festival della Scienza – I Linguaggi delle Scienze del Patrimonio: dal macro al micro – Visione dall’Alto**  
A. Brucato, G. Cantoro - Authors (Genova, Italy)
- 2022 **CAA2022 – INSIDE INFORMATION - S.14.108 Application of ML algorithms on satellite imagery for the detection of potential new prehistoric sites in the Egyptian Western Desert**  
A. Brucato, N. Masini, G. Scardozzi, G. Lucarini – Authors (Oxford, UK)
- 2022 **ESALPS2022 – Taking the Pulse of our Planet from Space - D2.12.2 Machine Learning based approach for satellite detection of potential new archaeological sites linked to the mobility of prehistoric groups in the Egyptian Western Desert**  
A. Brucato, N. Masini, G. Scardozzi, G. Lucarini – Authors (Bonn, Germany)

## PUBLICATIONS AND DISSEMINATION (PREVIOUS PH.D. PERIOD)

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### OTHER MEDIA PUBLICATIONS

- 2019 **The Pregnant Woman (Sheik Mohammed 14, Tomb 24) – Egypt’s Unexplained Files: Finding Nefertiti – Contents in Documentary Series**  
Discovery Channel, Archive of 360 Production Ltd, Aswan Kom-Ombo Archaeological Project – 3D contents and videoclips within the documentary episode – <https://www.sciencechannel.com/tv-shows/egypts-unexplained-files/full-episodes/finding-nefertiti>

### CONFERENCES

- 2021 **UQ2021 – Nuove tecnologie open source per la gestione dei beni, delle attività culturali e del turismo – Sessione Siti Archeologici – Machine Learning applications for satellite imagery analyses in Archaeological research and Cultural Heritage monitoring. A Review**  
A. Brucato, Author (Rome, Italy)
- 2019 **IFAO2019 – Clamour from the past – Session Graffiti, rock inscriptions and secondary epigraphy from Ancient Egypt – Digital Documentation and Virtual Reality: A New Storytelling for Egyptian Rock Art and Inscriptions**  
A. Urcia, A. Brucato, W. Willoughby-Spera – Poster (Cairo, Egypt)
- 2019 **AENT2019 INDIANA – 1<sup>st</sup> International Conference on Ancient Egypt and Digital Humanities – Digital Documentation and Virtual Reality: A New Form of Storytelling for Egyptian Rock Art and Inscriptions**  
A. Urcia, A. Brucato, W. Willoughby-Spera – Poster (Bloomington, USA)
- 2018 **IFRAO2018 - 20th International Rock Art Congress - The Rock Art Site of Nag el-Hamdulab**  
A. Urcia, A. Brucato, W. Willoughby-Spera – Authors (Darfo Boario Terme, Italy)