

CURRICULUM VITAE | Anastasia Eleftheriadou

DATE OF BIRTH | 18/05/1996

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SCIENCE COMMUNICATION | @aeleftheriadou.bsky.social

EDUCATION

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| 2025- present | Postdoctoral researcher (Akademischer Rat auf Zeit) in AI and machine learning applications for heritage studies and archaeology, Institute for Digital Cultural Heritage Studies, Ludwig-Maximilians-Universität (LMU), Munich, Germany. |
| 2021 - 2025 | <p>PhD candidate in Archaeology, Interdisciplinary Center for Archaeology and Evolution of Human Behaviour (ICArEHB), Faculty of Human and Social Sciences, University of Algarve, Portugal.</p> <ul style="list-style-type: none">• Title: CAPTURE: Computational Approaches to Lithic Use-Wear Analysis: An Open-source AI Framework.• Supervision: Dr. João Marreiros, Dr. Shannon McPherron |
| 2018 - 2020 | <p>MA in Archaeology, Art and Culture, major in Prehistoric Archaeology, Department of History and Archaeology, School of Philosophy, Aristotle University of Thessaloniki, Greece.</p> <ul style="list-style-type: none">• Title: The Epipalaeolithic site of Ouriakos in Lemnos - application of Geographical Information Systems (GIS) at the spatial distribution of lithic tools• Supervision: Professor Nikolaos Efstratiou. Dr. Markos Katsianis• Grade: 9,63/10 (Excellent). |
| 2014 - 2018 | <p>BA in Archaeology and History of Art, major in Archaeology, Department of History and Archaeology, School of Philosophy, Aristotle University of Thessaloniki</p> <ul style="list-style-type: none">• Grade: 7,61/10 (Very Good). |

SKILLS

Programming languages	Python	Advanced
	R	Advanced
	NetLogo	Advanced
Database management		
Software	SQL	Advanced
	ArcGIS	Advanced
	QGIS	Advanced
	GRASS GIS	Advanced
	CAD	Intermediate
Languages	Greek	Native
	English	C2
	Italian	B2
	French	A2
	Portuguese	A2
Management	Elected PhD representative (2022-2023), mediating between faculty and students on academic and administrative issues. Experience in peer advocacy, and event coordination.	
Driving License	Category B (valid internationally)	

COMPUTATIONAL TRAINING

2018	Laboratory class: “GIS for Landscape and Environment Analysis”. University of Florence, prof. Margerita Azzari (UNIFI), as an Erasmus exchange student.
2019 - 2020	MSc in Computational Archaeology: GIS, Data Science and Complexity (UCL), as an Erasmus exchange student.
2021	50-hour seminar in Python programming language, organized by Young Entrepreneurs Succeed (YES!) trust-based partnership and the Development Agency of Karditsa (ANKA).

SCHOLARSHIPS

2024 - 2025	Erasmus+ program for traineeship at the TraCer Institute in Monrepos, Newied, Germany
2021- 2025	FCT (Fundação para a Ciência e Tecnologia) and ICArEHB - PhD Grant (UIDP/04211/2020), Faro, Portugal
2021 - 2021	Erasmus+ program for traineeship at the Prehistoric Museum of Florence - Institute, Paolo Graziozi, Florence, Italy
2019 - 2020	Erasmus+ program for studies at the University College of London (UCL), London, UK

2018	Scholar of Erasmus+ program for studies at the University of Florence (Università degli Studi di Firenze), Florence, Italy
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GRANTS / PRIZES

2025	Nick Ryan Bursary (€1,000.00) Best student paper presented at the Computer Applications and Quantitative Methods in Archaeology (CAA), Athens, Greece
2024	Poster prize (€1,500.00) Best student poster at the European Society for the study of Human Evolution (ESHE), Zagreb, Croatia
2023	ICArEHB seed fund (€5,000.00). Title: Geo-archaeoinformatic approaches and multiscale mapping of coastal paleosols and archaeology in eastern South Africa.
2022	The Leakey Foundation (\$19,960.00). Project reference: 10ID00213. Title: Geo-archaeoinformatic approaches and multiscale mapping of coastal paleosols and archaeology in eastern South Africa.

SEMINARS / FIELD SCHOOLS

2022	Intensive course in ‘Archaeological Soil Micromorphology’, UCL, London, UK.
2022	Field school program on ‘Site Formation, Stratigraphy, and Geoarchaeology in Athenian Agora’, Malcolm H. Wiener Laboratory for Archaeological Science, Athens, Greece.
2022	Training Statistics for Archaeologists I & II, ICArEHB, Faro, Portugal.

ORGANIZATION OF EVENTS AND SESSIONS

2025	Session main chair organiser at CAA2025, Athens, Greece. S9: Pixels in Training: Image-Based Machine Learning Applications in Archaeology.
2024	Session chair organiser at CAA2024, Auckland, New Zealand. S7: From trials and errors to triumphs: Machine Learning applications in archaeology.
2024	Workshop co-organiser at ICArEHB, University of Algarve, Faro. Title: Machine Learning in Archaeology: An introduction to concepts and practical applications.
2023 - 2024	Internal Seminar series in ICArEHB, UALG.

PUBLICATIONS

- 2025 **Eleftheriadou**, A., Djellal, J., McPherron, P.S., Marreiros, J., (2025 submitted). Classifying Polish in Use-Wear Analysis with Convolutional Neural Networks. Scientific Reports. Reference No: ID 4597493b-6365-4760-995d-3cfae6a47247
- Eleftheriadou**, A, McPherron, S.P., and Marreiros, J. 2025. Machine Learning Applications in Use-Wear Analysis: A Critical Review. *Journal of Computer Applications in Archaeology*, 8(1): 188–205. DOI: <https://doi.org/10.5334/jcaa.190>
- 2022 Efstratiou, N., Biagi, P., Starnini, E., Kyriakou, D., & **Eleftheriadou**, A. (2022). Agia Marina and Peristereonas: Two New Epipalaeolithic Sites on the Island of Lemnos (Greece). *Journal of Paleolithic Archaeology*, 6(1), 5.
<https://doi.org/10.1007/s41982-022-00118-8>

CONFERENCES

- 2025 **Eleftheriadou**, A., Djellal, Y., McPherron, S. P., & Marreiros, J. (2025). Classifying Polish in Use-Wear Analysis with Neural Networks: Investigating the Effects of Objective and Material Variations. Paper presented at the Computer Applications and Quantitative Methods in Archaeology (CAA 2025), 5-7 May, Athens, Greece.
- Evans, M. & **Eleftheriadou**, A. (2025). Towards Image-Based Machine Learning Palaeographic Analysis in Greek Inscriptions. Poster presented at the Computer Applications and Quantitative Methods in Archaeology (CAA 2025), 5-7 May, Athens, Greece.
- 2024 **Eleftheriadou**, A., McPherron, S. P., & Marreiros, J. (2024). Artificial intelligence applications in use-wear analysis: a critical review. Poster presented at the European Society for the study of Human Evolution Conference (ESHE 2024), 25-27 September, Zagreb, Croatia.
- Eleftheriadou**, A., McPherron, S. P., & Marreiros, J. (2024). Computational Approaches to Lithic Use-Wear Analysis: An Open-source AI Framework. Poster presented at the workshop 'Big Data and Archaeology: Towards an AI Solution', 6-7 June, Mainz, Germany.
- Penco M., Lo Vetro D., Martini F., **Eleftheriadou** A., Pizziolo G., Mugnai S., Olmi F. (2024). Una struttura di accumulo dell'Epigravettiano finale a Grotta del Romito (Papasidero, Cosenza): una prospettiva archeozoologica. Paper presented at the 11th National Archaeozoology Conference, 26 November – 1 December, Trento, Italy.
- 2023 **Eleftheriadou**, A. (2023). Modeling landscape evolution and archaeological site distributions in eastern South Africa: a geo-archaeoinformatic approach. Poster presented at the Computer Applications and Quantitative Methods in Archaeology (CAA 2023), 11-14 April, Amsterdam, Netherlands.
- Galfi, J. & **Eleftheriadou**, A. (2023). The use of Photogrammetry and Computer Vision with Python for plotting surface lithic scatters. Poster presented at the Computer Applications and Quantitative Methods in Archaeology (CAA 2023), 11-14 April, Amsterdam, Netherlands.

- 2022 **Eleftheriadou, A. (2022).** An application of point pattern analysis and spatial statistics in lithic distributions. 3rd International Congress on Archaeological Sciences in the Eastern Mediterranean and the Middle East, The Cyprus Institute, 14-18 March, Nicosia, Cyprus.
- 2020 **Eleftheriadou, A. (2022).** Getting spatialized: point pattern analysis at the lithic assemblage of the Epipalaeolithic camp of Ouriakos. IAS Conference - Sapienza Archaeology Meetings (3rd edition) dedicated to Digital Humanities and Landscape Archaeology, 19-20 November, Rome, Italy.

FIELDWORK

- 2024 Excavation at Pescera Mare cave, exploratory project, Serbia.
 - Director: Dr. Tamara Dogandzic
 - Role: excavation
- 2024- 2021 Surface survey at Emporio Hinterland Project, Chios, Greece University College of London (UCL) in collaboration with the Greek Ephorate of Antiquities.
 - Director: Dr. Andrew Bevan (UCL)
 - Role: supervising survey team
- 2023 Surface survey of Middle Stone Age sites at the eastern coast of South Africa. ICArEHB, University of Algarve (UALG)
 - Role: PI
- 2022-2019 Surface survey in Lemnos, Greece, AUTH.
 - Director: Emeritus Professor Efstratiou Nikolaos
 - Role: GIS specialist, survey
- 2021 Dispilio Neolithic Lake site - ERC program EXPLO, Dispilio, Greece. Aristotle University of Thessaloniki (AUTH)
 - Director: Emeritus Professor Kostas Kotsakis
 - Role: trench supervisor

Underwater survey at Bay of Kiladha, submerged Neolithic site, University of Geneva (UNIGE) in collaboration with the Greek Ephorate of Underwater Antiquities, Argolida, Greece.
 - Director: Dr. Julien Beck
 - Role: survey

Excavation at Kataliontas-Kourvellos, Neolithic site, Cyprus, UNIGE.
 - Director: Dr. Julien Beck
 - Role: excavation

2020-2019 Excavation at Ouriakos Epipalaeolithic site, Lemnos, Greece, AUTH.
 - Director: Emeritus Professor Efstratiou Nikos
 - Role: GIS specialist, excavation

2019 & 2017 Excavation at Toumba, Bronze age site, AUTH.
 - Director: Emeritus Professor Andreou Stellios
 - Role: trench supervisor, photographer and database manager

- 2018 Excavation at Çesme – Baglararası, Bronze age site, University of Ankara, Cesme, Turkey.
- Director: Dr. Vasıf Şahoğlu
 - Role: excavation
- Excavation at Tosina di Monzambano, Neolithic site, University of Florence and the Museum – Institute of Prehistory in Florence "Paolo Graziosi", Mantova, Italy.
- Director: Dr. Domenico Lo Vetro
 - Role: excavation
- 2017 - 2016 Excavation at Vergina, Eucleia Sanctuary, AUTH, Veroia, Greece.
- Director: Emeritus Professor Paliadeli Xrysoula
 - Role: excavation

PEER-REVIEWER

- 2024 - present PCI Archaeology recommender

TEACHING

- 2025 Guest Lecture – Open science and machine learning.
PhD module Open Science, coordinated by Dr. Maria João Martins & Dr. Li Li.
- 2023-2024 Lecture – ‘Use-wear studies and machine learning’.
Seminar ‘Decoding the Past: Introduction into the use of Machine Learning approaches in Archaeology’, coordinated by Anastasia Eleftheriadou and Lucia Cobo Sanchez.
- 2023-2024 Guest Lecture – ‘Aeolian geomorphology’.
MA module Geomorphology, coordinated by Dr. Ana Gomez

MEMBERSHIP

- 2024 - present European Cost action project CA23141 - Managing Artificial Intelligence in Archaeology (MAIA): <https://www.cost.eu/actions/CA23141/>
Working groups:
- Digital Comparative Collections and AI Training Data for Archaeology
 - AI and Archaeological Research
- 2021-2015 Conversation team ‘Waterscape AUTH’. Organization of meetings and talks regarding maritime archaeology, in collaboration with independent researchers, universities and institutions.
- 2020 Journal club ‘Spatial and Computational Archaeology’, organized by Dr. Andrew Bevan. Meetings of master students, PhD students and researchers from UCL and

other universities, concerning methodological and theoretical issues around spatial and computational archaeology.

PUBLIC OUTREACH

2024 Featured in University Magazine, UALGzine, University of Algarve (January 2024). Article highlighting my ongoing PhD research and its interdisciplinary impact: <https://www.ualg.pt/en/pub/ualgzine-16>