

# Curriculum Vitae

**Name:** Elissavet Ganiatsou  
**Date of birth:** 08-05-1993  
**Citizenship:** Greek  
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## Education

2011-2016 **Degree in History and Archaeology**, Department of Archaeology and History of Art. Department of History and Archaeology, School of Philosophy, National and Kapodistrian University of Athens, Athens. Grade: "Very Good" (7)  
2016-2018 **Master's degree (MSc) in Archaeometry "Applied Archaeological Sciences"**. Department of Mediterranean Studies, University of the Aegean, Rhodes.  
2019-2023 **PhD in Biological Anthropology** at the Department of History and Ethnology, Democritus University of Thrace, Komotini. Doctoral thesis grade "Excellent" (10). *IKY Scholarship*

## Academic and research career

10/2024 - παρόν **Postdoctoral researcher**, Department of Humanities, Democritus University of Thrace on the topic "Development of new Machine Learning methods for Bioarchaeology: a holistic approach to the study of ancient nutrition".  
2025-2026 Research project title: "NutriRoots: A time-travel through human past: evolution's guide to healthy eating". Funding: Hellenic Research Foundation 6th Call for Proposals "Science and Society" – "Modern Nutritional Awareness". **Postdoctoral researcher with a project assignment contract (1 month)**.  
2025 Research project title: "Migration movements in the Byzantine world", 1261-1453. Funding: 4th Call for Research Projects EL.IDEK. for the support of Postdoctoral Researchers. **Postdoctoral researcher with an unpaid contract (2 months)**.  
22/07/2024-31/5/2028 Research project title: "CityLife: A bio-archaeological study of 1,800 years of resilience and adaptation to urbanity". Funding: European Research Council (ERC). "Consolidator Grant". Total budget: 2,000,000 euros. **Postdoctoral researcher with a project assignment contract**.  
1/10/2021-16/11/2023 Research project title: [ECHOES: development of a methodology for the digital reconstruction of ancient human biographies through the study of archaeo-anthropological material](#). Funding: Operational Program "Competitiveness, Entrepreneurship and Innovation (EPAnEK)" of the NSRF 2014–2020, Research-Create-Innovate Program. Total Project Budget 610,000 euros, DPTH 210,000 euros, Managing Authority: GGEK. **Archaeologist-anthropologist with project assignment contract**.  
1/3/2020-9/10/2021 Research project title: Breastfeeding and weaning in antiquity. The example of Thessaloniki. Support for researchers with emphasis on young researchers, 2nd cycle. Human Resources Development, Education and Lifelong Learning, NSRF 2014-2020 45,000 euros. **Research fellow**.  
14/09/2018-28/10/2021 Research project title: [The genomic heritage of ancient Greece: Bringing digitalised human bio-history to museums](#). Funding: Operational Program "Competitiveness, Entrepreneurship and Innovation (EPAnEK)" of the NSRF 2014–2020, Bilateral Cooperation Program Greece-Germany. DPTH 268,000 euros, managing authority: GSRT. **Archaeologist-anthropologist with a project assignment contract**.

## Teaching activity

### Undergraduate Study Programs

02-06/2026 Independent teaching in place of the subject "Evolution and Physical Anthropology" in the courses "**Palaeoanthropology**" and "**Biology, ethology and evolution of primates**", Democritus University of Thrace, "Acquisition of Academic Teaching Experience to Young Scientists with PhDs at Democritus University of Thrace" for the spring semester of the academic year 2025-2026 (MIS 6029738)  
02-06/2025 Independent teaching in place of the cognitive subject "Evolution and Physical Anthropology" in the courses "**Palaeoanthropology**" and "**Biology, ethology and evolution of primates**", Democritus University of Thrace, "Acquisition of Academic Teaching Experience to Young Scientists with PhDs at Democritus University of Thrace" for the spring semester of the academic year 2024-2025 (MIS code: 6017324)  
10/2024-02/2025 Independent teaching in place of the cognitive subject "Evolution and Physical Anthropology" in the courses "**The history of human nutrition through analytical and applied methods of Biological Anthropology**" and "**Paleogenetics: applications in Anthropology**", Democritus University of Thrace, "Acquisition of Academic Teaching Experience to Young Scientists with PhDs at Democritus University of Thrace" for the winter semester of the academic year 2024-2025 (MIS code: 6017324)

02-06/2024 Independent teaching in place of the cognitive subject "Evolution and Physical Anthropology" in the courses "**Palaeoanthropology**" and "**Palaeogenetics: applications in Anthropology**", Democritus University of Thrace, "Acquisition of Academic Teaching Experience to Young Scientists with PhDs at Democritus University of Thrace" for the spring semester of the academic year 2023-2024 (MIS code: 6004244)

### Postgraduate Study Programs

- 2025-2026 Coordinator of the course "Statistical Applications in Biological Anthropology" at the Inter-Institutional Postgraduate Course entitled "History of Medicine and Biological Anthropology: Health, Disease and Natural Selection". School of Medicine of the Aristotle University of Thessaloniki and Department of Humanities of the Democritus University of Thrace.
- 2020-2025 Lecturer under a project assignment contract at the Inter-Institutional Postgraduate Course entitled "History of Medicine and Biological Anthropology: Health, Disease and Natural Selection". School of Medicine of the Aristotle University of Thessaloniki and Department of Humanities of the Democritus University of Thrace.  
Course title: "*Special topics in paleo-nutrition, paleopathology and paleodemography*"

### Student Supervision

#### Diploma theses

- 2020 Eftychia Karyda: Dietary habits in Roman Thessaloniki: Collagen extraction in osteological material from the eastern cemetery (Library section - Crossover). Examination date 10-07-2020, grade 10. Department of History and Ethnology, Democritus University of Thrace (Unofficial supervision)

#### Postgraduate Diploma Theses

- 2025 Athanasia Koutoula: The demographic composition and diet of the inhabitants of Maximianoupolis during the Byzantine period (330 AD - 1360 AD): data from the macroscopic study and stable isotope analysis of skeletal material. (in progress).  
Inter-Institutional Postgraduate Course entitled "History of Medicine and Biological Anthropology: Health, Disease and Natural Selection". School of Medicine of the Aristotle University of Thessaloniki and Department of Humanities of the Democritus University of Thrace.
- 2022 Nefeli Choupa: The reconstruction of the diet of the inhabitants of Thessaloniki during the Hellenistic and Roman periods through the analysis of stable isotopes. Examination date 14-11-2022, grade 10.  
Inter-Institutional Postgraduate Course entitled "History of Medicine and Biological Anthropology: Health, Disease and Natural Selection". School of Medicine of the Aristotle University of Thessaloniki and Department of Humanities of the Democritus University of Thrace (Unofficial supervision)

### Instructor

- 2019-2024 Three-day Workshop in the framework of the Inter-Institutional Postgraduate Course entitled "History of Medicine and Biological Anthropology: Health, Disease and Natural Selection". School of Medicine of the Aristotle University of Thessaloniki and Department of Humanities of the Democritus University of Thrace.  
Instructor in sampling of osteoarchaeological material, extraction of collagen from bones and teeth, processing and statistical analysis of isotopic data

### Peer-review publications

1. **Ganiatsou E.**, Souleles A., Protopsalti S., Tzevreni S., Konstantinidou K., Vasileiadou S., Papageorgopoulou C. [Estimating weaning duration from incremental dentine  \$\delta^{15}\text{N}\$  and  \$\delta^{13}\text{C}\$  using a sequence-based LSTM neural network: A deep learning framework for bioarchaeological applications](#). PLOS ONE 20(12): e0337619.
2. Aidonis A., **Ganiatsou E.**, Bantavanou P., Kakasa C., Protopsalti S., Tzevreni S., Vasileiadou S., Konstantinidou K., Papageorgopoulou C. (2025) [Urban survival, population dynamics and historical transitions in Thessaloniki \(316 BC-AD 1500\)](#) *Archaeol Anthropol Sci* **18**, 74
3. Zisis A., Georgiadou A., Ganiatsou E., Xanthopoulou P., Kallintzi K., Papageorgopoulou C. (2025) [Variations in dietary patterns in the ancient Greek colony of Abdera: insights from isotopic evidence and Bayesian modeling](#). *Archaeol Anthropol Sci* **17**, 144
4. **Ganiatsou E.**, Souleles A., Papageorgopoulou C. (2025) Exploring Ancient Infant Weaning: Leveraging Machine Learning and Bayesian Modelling on Stable Isotope Data from Dentinal Collagen. Proceedings of the 8th Symposium of the HAS. Athens University Review of Archaeology (AURA) (*Accepted in press*)
5. Kakasa C., Aidonis A., **Ganiatsou E.**, Bantavanou P., Papageorgopoulou C. Anthropological and palaeodietary study. In The West Cemetery at Archontiko near Pella 1. The First Chronological Phase (Early Iron Age - early 6th c. BC), A. Chrysostomou, P. Chrysostomou & V. Saripanidi (eds), Brussels: CReA-Patrimoine. (*Accepted in press*)
6. Bantavanou P., **Ganiatsou E.**, Souleles A., Georgiadou A., Xanthopoulou P., Aidonis A., Papageorgopoulou C. (2024) [An Investigation of Enamel Hypoplasia and Weaning through Histomorphological Analysis and Bayesian Isotope Mixing Models](#). *Journal of Dental Anthropology* 37, no. 1
7. **Ganiatsou E.**, Souleles A., Papageorgopoulou C. (2023) [WEaning Age FiNder \(WEAN\): a tool for estimating weaning age from stable isotope ratios of dentinal collagen](#). *Archaeological and Anthropological Sciences* 15, no. 4: 50. <https://doi.org/10.1007/s12520-023-01741-4>.
8. **Ganiatsou E.**, Vika E., Georgiadou A., Souleles A., Aidonis A., Siegmund F., Konstantinidou K., Protopsalti T., Tzevreni S., Vasileiadou S., Siegmund F., Papageorgopoulou C. (2022) [Application of machine learning on isotopic data from tooth microsections for reconstructing weaning patterns and physiological stress](#). *Journal of Archaeological Science: Reports*. <https://doi.org/10.1016/j.jasrep.2022.103765>

9. **Ganiatsou E.**, Vika F., Georgiadou A., Protopsalti T., Papageorgopoulou C. (2022) Breastfeeding and weaning in Roman Thessaloniki. [An investigation of infant diet based on incremental analysis of human dentine](https://doi.org/10.1080/14614103.2022.2083925). *Journal of Environmental Archaeology* <https://doi.org/10.1080/14614103.2022.2083925>.
10. Marchi N, Winkelbach L, Schulz I, Brami M, Hofmanová Z, Blöcher J, Reyna-Blanco CS, Diekmann Y, Thiéry A, Kapopoulou A, Link V, Piuze V, Kreutzer S, Figarska SM, **Ganiatsou E**, Pukaj A, Struck TJ, Gutenkunst RN, Karul N, Gerritsen F, Pechtl J, Peters J, Zeeb-Lanz A, Lenneis E, Teschler-Nicola M, Triantaphyllou S, Stefanović S, Papageorgopoulou C, Wegmann D, Burger J, Excoffier L. (2022) [The genomic origins of the world's first farmers](https://doi.org/10.1016/j.cell.2022.04.008) *Journal of Environmental Archaeology*. doi: 10.1016/j.cell.2022.04.008.
11. Clemente F, Unterländer M, Dolgova O, Amorim CEG, Corrado-Santos F, Neuenschwander S, **Ganiatsou E**, Cruz Dávalos DI, Anchieri L, Michaud F, Winkelbach L, Blöcher J, Arizmendi Cárdenas YO, Sousa da Mota B, Kalliga E, Souleles A, Kontopoulos I, Karamitrou-Mentessidi G, Philaniotou O, Sampson A, Theodorou D, Tsipopoulou M, Akamatis I, Halstead P, Kotsakis K, Urem-Kotsou D, Panagiotopoulos D, Ziota C, Triantaphyllou S, Delaneau O, Jensen JD, Moreno-Mayar JV, Burger J, Sousa VC, Lao O, Malaspinas AS, Papageorgopoulou C. (2021) [The genomic history of the Aegean palatial civilizations](https://doi.org/10.1016/j.cell.2021.03.039). *Cell* 2021 184(10):2565-2586.e21. doi: 10.1016/j.cell.2021.03.039.
12. Bertsatos A, **Ganiatsou E**, Papageorgopoulou C, Chovalopoulou ME. (2020) ["What and how should we share?" An inter-method inter-observer comparison of measurement error with landmark-based craniometric datasets](https://doi.org/10.1127/anthranz/2019/1047). *Anthropologischer Anzeiger* 77(2):109-120. doi: 10.1127/anthranz/2019/1047

### Conference participations

A total of 50 participations in scientific conferences (oral presentations and posters). Indicatively:

- Ganiatsou E.**, Bantavanou, P., Papageorgopoulou C., The impact of breastmilk consumption in the formation of dental enamel hypoplasia: A Histomorphological and Stable Isotope approach. *31th EAA Annual Meeting*, 3-6 September 2025, Belgrade, Serbia
- Ganiatsou E.**, Papageorgopoulou C. SALEM: an integrated software application for stable isotope data analysis. *11th International Symposium on Biomolecular Archaeology*, 26-29 August 2025, Turin, Italy.
- Ganiatsou E.**, Bantavanou, P., Souleles A., Aidonis A., Georgiadou, A., Protopsalti S., Tzevreni S., Papageorgopoulou C. Growing up and growing old in an urban environment: dietary transitions in ancient Thessaloniki using stable isotope analysis and custom computational approaches. *94th Annual Meeting of the American Association of Biological Anthropologists*, 12-15 March 2024, Baltimore, U.S.A.

### Scholarships / Awards

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|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024 | Award for Distinguished Achievements of Students, Young Scientists and Graduates from the School of Classical and Human Sciences of the Democritus University of Thrace                                                                                    |
| 2023 | Honorable Mention Award from the Democritus University of Thrace for my award from the Society of Archaeological Sciences                                                                                                                                  |
| 2023 | <a href="#">Βραβείο Albert A. Dahlberg καλύτερης γραπτής εργασίας από την Dental Anthropological Association</a> which is judged every year at the annual meeting within the framework of the Annual Meeting of Biological Anthropology Association        |
| 2022 | Award for best oral presentation from the Society Of Archaeological Sciences and Elsevier at the 3rd International Congress on Archaeological Sciences in the Eastern Mediterranean and the Middle East (ICAS-EMME 3), Nicosia-Cyprus, March 14-18/3/2022. |

### Invited lectures

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|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025 | Talk entitled "Research and Innovation in the Sectors of Culture and Creative Industries", DUTh Innovation Generator, Innovation Hub of Democritus University of Thrace in collaboration with Mantis Beyond Innovation                                                      |
| 2024 | Invited talk entitled "Nutrition and Anthropological Characteristics" at the event "Levinas Days "Health-Culture-Man-Nature"" Organized by the Medical Museum of the University of Crete, the Network of Associations of Messara and the Region of Crete, Lentas, 27/4/2024 |
| 2021 | Online talk entitled "The investigation of the diachronic pattern of breastfeeding in ancient Thessaloniki through the analysis of incremental dentine" Bioarchaeology Seminar series, School of Archaeology, University of Oxford, 18/10/2021                              |

### Organization of Scientific Conferences, Workshops and Exhibitions

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|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026 | Session organizer: «Investigating ancient motherhood: biochemical, textual, and computational approaches to breastfeeding, weaning, and female health» 26-28 August 2026, Athens. Session 186 32th EAA Annual Meeting, 26-28 August 2026, Athens, Greece                                                                                |
| 2025 | Co-organizer: «Computational Innovations In Biological Anthropology, Archaeology And Genetics: Advancing Research On Past Human Populations», 05-09 May 2025, Athens, Session 13: "International Conference on Computer Applications & Quantitative Methods in Archaeology: Digital Horizons: Embracing heritage in an evolving world". |
| 2023 | Co-organizer: «Digital Methods in Bioarchaeology and Paleoanthropology», 28-31 August 2024, Rome, "European Association of Archaeologists Annual Meeting".                                                                                                                                                                              |

### Member of Scientific Societies

1. [Computer Applications in Archaeology](#) (CAA)
2. [American Association of Biological Anthropology](#) (AABA)

3. [European Archaeological Association](#) (EAA)
4. [Ελληνική Αρχαιομετρική Εταιρεία](#) (EAE)
5. [International Society for Biomolecular Archaeology](#) (ISBA)

### **Scientific journal reviewer**

Journal of Archaeological and Anthropological Sciences  
Journal of Archaeological Science: Reports

### **Editor, Associate Editor**

Co-Guest Editor των πρακτικών του συνεδρίου 8th ARCH\_RNT Proceedings – Bioarchaeology (2025)

### **Parallel education**

|           |                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2017-2018 | Attendance of Physical Anthropology courses and workshops at the Anthropology Laboratory of the Biology Department (National Kapodistrian University of Athens).                                                                                                                            |
| 3/2024    | Participation in the seminar “TIFA Machine Learning in Archaeology: An introduction to concepts and practical applications” organized by the research center ICArEHB, the Interdisciplinary Center for Archaeology and Evolution of Human Behaviour, University of Algarve, Faro, Portugal. |
| 11/2018   | Participation in the seminar “Reconstructing subsistence using the Bayesian model FRUITS”, organized by the University of Lisbon, Lisbon, Portugal.                                                                                                                                         |

LANGUAGES English (C2), French (B2), Japanese (N5)

### **Technical skills and abilities**

#### **Isotopic Analysis**

Bone and tooth sampling for isotopic analysis, Collagen extraction from bones using the decalcification and lyophilization method, Application of the serial sampling method of dentin layers for the extraction of collagen from teeth, Weighing and measuring collagen in an isotope ratio mass spectrometer (IRMS), Processing and statistical analysis of isotopic data, Teaching paleodiet reconstruction using the stable isotope method and other analytical methods at undergraduate and graduate levels

#### **Programming & Data Analysis**

Proficient use of R, adequate understanding of Python and LaTeX., ECD certification (Internet Services, Word Processing, Spreadsheets, Databases), Application of algorithms and application development for the analysis of biological data, use of methods visualization and comparison of data

#### **Paleogenetics**

Sampling of osteological material for the extraction and analysis of ancient DNA, Teaching paleogenetics topics at undergraduate level.

#### **3D Morphometry**

Digitization and 3D modeling of bones using the photogrammetry method, Certified user of Artec Spider equipment for the digitization of bones using the laser scanning method, Processing and statistical analysis of morphometric data.

#### **Laboratory Organization and Management of Research Projects**

Management of consumables, coordination of work and ensuring the proper functioning of laboratory procedures, Budget planning, coordination of work, human resource management and supervision of the smooth completion of research projects.