



Peer Community In Archaeology

Establishing a workflow for recording and analysing bioarchaeological data

Christianne Fernee based on peer reviews by 2 anonymous reviewers

Kiriakos Xanthopoulos, Angeliki Georgiadou, Christina Papageorgopoulou (2024) An approach to establishing a workflow pipeline for synergistic analysis of osteological and biochemical data. The case study of Amvrakia in the context of Corinthian colonisation between 625-189 BC in Epirus, Greece. Zenodo, ver. 3, peer-reviewed and recommended by Peer Community in Archaeology. <https://doi.org/10.5281/zenodo.8298579>

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The paper by Xanthopoulos and colleagues [1] presents an approach to establish a pipeline for the analysis of osteological and biochemical data. This approach integrates novel data collection, FAIR principles for data longevity and accessibility, utilises R markdown and cloud webware. Following the changes recommended by the reviewers this paper presents a welcome contribution to osteoarchaeology and bioarchaeology.

Osteoarchaeology and bioarchaeology often involves the collection of vast amounts of data both in the field and from consequential analysis in the lab. From this data we can reconstruct many aspects of past human experiences. However, issues often arise when bringing together these diverse types of data. In this regard, this paper proposes a useful methodology in which osteoarchaeological researchers can bring their data together as part of a streamlined process, from data collection to analyses.

References:

[1] Xanthopoulos, K., Georgiadou, A. and Papageorgopoulou, C. (2024). An approach to establishing a workflow pipeline for synergistic analysis of osteological and biochemical data. The case study of Amvrakia in the context of Corinthian colonisation between 625-189 BC in Epirus, Greece. Zenodo, 11156506, ver. 3 peer-reviewed and recommended by Peer Community in Archaeology. <https://doi.org/10.5281/zenodo.8298579>

Reviews

Evaluation round #1

DOI or URL of the preprint: <https://doi.org/10.5281/zenodo.8298580>

Version of the preprint: 1

Authors' reply, 09 May 2024

Dear Christianne Fernée

I am writing to inform you that I have resubmitted my paper after taking into consideration all the suggestions and corrections the reviewers had noted. I used the zenodo platform to upload the new file as version 2 and a new doi has been generated (10.5281/zenodo.11156506). I have edited my article data accordingly.

I remain at your disposal.

Best regards

Kiriakos Xanthopoulos

Decision by **Christianne Fernee**, posted 18 December 2023, validated 19 December 2023

This paper broaches a subject that is very needed in archaeology/osteoaarchaeology. The paper shows a lot of promise, however some revisions are required prior to recommendation. In particular, the paper would benefit from:

- Abstract: a more concise extract that reflects the content that is found in the paper
- Introduction: An acknowledgement of the attempts made in in osteoaarchaeology to aid data collection and standardisation
- Methods: an explanation of the pipeline in more detail

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