Invitation letters for the Archaeometry Special Issue

* There are 27 invited papers
* Mail object: “Invitation to submit an article for a special issue of Archaeometry on chronological modelling - provisional publication date: June 2024”

1 ) to: <[alex.bayliss@HistoricEngland.org.uk](mailto:alex.bayliss@HistoricEngland.org.uk), [peter.marshall@HistoricEngland.org.uk](mailto:peter.marshall@HistoricEngland.org.uk)>

Dear Pr Alex Bayliss, Dr Peter Marshall

We would like to personally invite you to contribute to an (online only) peer-reviewed special issue of the [Archaeometry journal](https://onlinelibrary.wiley.com/journal/14754754), on the subject of ‘***Chronology: formal methods and research software***’ (for a recent example of a special issue, see [here](https://onlinelibrary.wiley.com/toc/14754754/2022/64/S1)). We were very intrigued by your work on radiocarbon dating and dendrochronology. We were wondering if you would consider a paper on this topic? If you are interested in taking up this invitation, please **let us know by Monday June 17, 2023**. If you are unable to undertake this project personally but know someone who might, we would appreciate if you could provide us with their name and contact information. We would also be grateful if you would agree to act as a reviewer for at least one paper in this special issue.

Chronology, the analyse of time, is the backbone of Archaeology. Its study material encompasses different disciplines and is widely dispersed in time and space. This has led to numerous context-based frameworks, focused on absolute *vs* relative chronology, Prehistory *vs* recent periods, laboratory techniques *vs* cultural approaches, deterministic *vs* statistical methods, and more. The aim of this special issue is to review current practices on formal methods, modelling and research software for chronological data in archaeology. We will invite a series of papers to contribute to various aspects of these matters, including (but not limited to) archaeometric dating, Bayesian analysis, stratigraphy, seriation, temporal logics and open-source research software. Papers will also explore multi-paradigm alignment (cross-dating), high-resolution downscaling, low-resolution upscaling of temporal data to a common timeline, multi-resolution alignment (scalability), uncertainty and fuzziness management, and the incorporation of FAIR policies and isostandards to foster temporal data reuse. It is important to note that this special issue is not intended to be a collection of case studies. Instead, it seeks to gather formal perspectives on chronological modelling, review recent methods and avenues of development, and focus on building interoperable chronologies over the long term and at large geographical scales. Please do not hesitate to make contact with us to discuss the potential topic of your contribution in more details.

The final **manuscript submission deadline is Friday November 17, 2023**. The provisional publication date for the complete Archaeometry special issue is June 17, 2024.

We hope you will consider contributing to this edition.

Yours sincerely,

Thomas Huet & Eythan Levy