

# Joe Roe

I am a computational archaeologist using data science to understand the [economy and ecology of the first farmers in Southwest Asia](#). I also develop [research software](#) and [open data resources](#) that support reproducible quantitative analysis in archaeology.

View this CV online with links at <https://joeroe.io/cv>

## Education

- 2025 • **PhD in prehistoric archaeology (*insigni cum laude*)**  
Institute of Archaeological Sciences, University of Bern
  - Thesis: *Studies in open archaeology and the archaeoecology of early agriculture in West Asia, c. 15,000–6,500 Before Present*
  - Supervisors: Prof. Albert Hafner, Dr. Martin Hinz
- 2017 | 2013 • **Postgraduate studies**  
Institute of Archaeology, University College London
  - Computational modelling of prehistoric human ecology in the Southern Levant
  - Supervisors: Prof. Louise Martin, Prof. Andrew Bevan, Dr. Andrew Garrard
- 2013 | 2012 • **MA Archaeology (Distinction)**  
Institute of Archaeology, University College London
  - Dissertation: *Cultural phylogeny of kurgan burial mounds in the west Eurasian steppe*
  - Supervisor: Prof. Stephen Shennan
- 2011 | 2008 • **BA Anthropology & Archaeology (1st class hons.)**  
Departments of Anthropology & Archaeology, Durham University
  - Dissertation: *Spatial analysis of intra-site surface collection data from a Cucuteni-Tripolye mega-site*
  - Supervisor: Prof. John Chapman
- 2008 | 2001 • **Secondary education**  
Woodkirk High School, Leeds

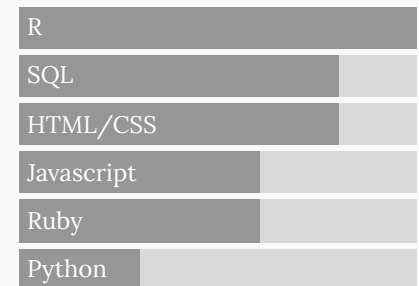
## Academic appointments

- Current | 2025 • **Research officer (Forskningsfuldmægtig)**  
Department of Cross-Cultural and Regional Studies, University of Copenhagen

## Contact

✉ [joeroe@archaeo.dev](mailto:joeroe@archaeo.dev)  
📧 [joeroe.io](https://joeroe.io)  
☎ 0000-0002-1011-1244  
👤 [Google Scholar](#)  
🐙 [github.com/joeroe](https://github.com/joeroe)  
@ [joeroe@archaeo.social](#)  
🌐 [User:Joe Roe](#)

## Programming



2024  
|  
2021

● **Research assistant (Projektmitarbeiter)**

Institute of Archaeological Sciences, University of Bern

- Lead developer of [XRONOS](#), an open repository for chronometric data (PIs: Dr. Martin Hinz, Prof. Albert Hafner)
- Also contributed to research project “Climate Change Resilience and Vulnerabilities of Bronze Age Waterfront Communities (2200–800 BC)” (PI: Dr. Caroline Heitz)

2020  
|  
2017

● **Research assistant (Videnskabelig assistent)**

Department of Cross-Cultural and Regional Studies, University of Copenhagen

- Responsibility for archaeological survey and spatial analysis components of major field projects in Iran and Jordan
- Developed databases and software interfaces for the projects’ research data
- PIs: Dr. Tobias Richter, Prof. Peder Mortensen



## Publications

2025

- Roe, J. & Arranz-Otaegui, A., Biogeography of crop progenitors and wild plant resources in the terminal Pleistocene and Early Holocene of West Asia, 14.7–8.3 ka. *Open Quaternary* NA. <https://doi.org/10.32942/X2DD27>
- Roe, J., Schmid, C., Ebrahimiabareghi, S., Heitz, C. & Hinz, M., XRONOS: An Open Data Infrastructure for Archaeological Chronology. *Journal of Computer Applications in Archaeology* 8 (1): 242–263. <https://doi.org/10.5334/jcaa.191>
- Martin, L., Roe, J. & Yeomans, L., Late Pleistocene–Holocene mammalian body size change in Jordan’s Azraq Basin: A case for climate driven species distribution shifts. *Quaternary Science Reviews* 350: 109–147. <https://doi.org/10.1016/j.quascirev.2024.109147>

2024

- Gaydarska, B., Roe, J., and Slavchev, V., Dietary Variability in the Varna Chalcolithic Cemeteries. *European Journal of Archaeology* 28 (1): 24–42. <https://doi.org/10.1017/ear.2024.33>
- Batist, Z. & Roe, J., Open archaeology, open source? Collaborative practices in an emerging community of archaeological software engineers. *Internet Archaeology* 67. <https://doi.org/10.11141/ia.67.13>

2023

- Batist, Z. & Roe, J., open-archaeo: a resource for documenting archaeological software development practices. *Journal of Open Archaeology Data* 11: 9. <https://doi.org/10.5334/joad.111>
- Arranz-Otaegui, A. & Roe, J., Revisiting the concept of the ‘Neolithic Founder Crops’ in southwest Asia. *Vegetation History and Archaeobotany* 32: 475–499. <https://doi.org/10.1007/s00334-023-00917-1>

My publications reflect a number of ongoing collaborations with domain-specialist colleagues, bringing a data science perspective to addressing multidisciplinary research questions in prehistory.

- 2022 ● Arranz-Otaegui, A., Pedersen, P. N., Schmidt, A. F., Jørgensen-Lindh, A., Roe, J., Villemoes, J., Pantos, G. A., & Killackey, K., Identifying the chaîne opératoire of club-rush (*Bolboschoenus glaucus* [Lam.] S.G.Sm) tuber exploitation during the Early Natufian in the Black Desert (northeastern Jordan). *Journal of Archaeological Science: Reports* 47. <https://doi.org/10.1016/j.jasrep.2022.103677>
- Jones, M., Richter, T., Rollefson, G., Rowan, Y., Roe, J., Toms, P., Wasse, A., Ikram, H., Williams, M., AlShdaifat, A., Pedersen, P. N., & Esaid, W., The palaeoenvironmental potential of the eastern Jordanian desert basins (Qe'an). *Quaternary International* 635: 72-82. <https://doi.org/10.1016/j.quaint.2021.06.023>
- Hinz, M., Roe, J., Laabs, J., Heitz, C., & Kolář, J., Bayesian inference of prehistoric population dynamics from multiple proxies: a case study from the North of the Swiss Alps. In NA, NA. NA, pp. NA. <https://doi.org/10.31235/osf.io/dbcag>
- 2021 ● Richter, T., Darabi, H., Alibaigi, S., Arranz-Otaegui, A., Bangsgaard, P., Khosravi, S., Maher, L., Mortensen, P., Pedersen, P., Roe, J., & Yeomans, L., The formation of Early Neolithic Communities in the Central Zagros: an 11,500 year old communal structure at Asiab. *Oxford Journal of Archaeology* 40 (1): 2-22. <https://doi.org/10.1111/ojoa.12213>
- 2020 ● Khosravi, S., Pedersen, P. N., Alibaigi, S., Roe, J., Heidary Dastenaee, M., Miladi, B., Darabi, H., Richter, T., & Mortensen, P., Archaeological Landscape of Razavar Valley in the Neolithic Period: the survey of the 8th-6th millennium BC in the north of Kermanshah Province. *Pazhoheshha-ye Bastan shenasi Iran* 26. <https://doi.org/10.22084/NBSH.2020.21133.2094>
- Nebbia, M., & Roe, J., Landscape Studies. In Gaydarska, B., *Early Urbanism in Europe: The Trypillia Mega-Sites of the Ukrainian Forest-Steppe*. De Gruyter, pp. 60-107. <https://doi.org/10.1515/9783110664959-007>
- Martin, L., & Roe, J., The Kheshiya Cattle Skull Ring: Zooarchaeological Analyses. In McCorriston, J., & Harrower, M. J., *Landscape History of Hadramawt: The Roots of Agriculture in Southern Arabia (RASA) Project, 1998-2008*. Cotsen Institute of Archaeology Press, pp. 275-348. <https://doi.org/10.2307/j.ctvzgb8n3.20>
- 2019 ● Henton, E., Roe, J., Martin, L., Garrard, A., Boles, O., Lewis, J., Thirlwall, M., & Jourdon, A-L., Epipalaeolithic and Neolithic gazelle hunting in the Badia of north-east Jordan. Reconstruction of seasonal movements of herds by stable isotope and dental microwear analyses. *Levant* 50 (2): 127-172. <https://doi.org/10.1080/00758914.2019.1598764>
- Jones et al., 20,000 years of societal vulnerability and adaptation to climate change in southwest Asia. *WIREs Water* 6 (2): e1330. <https://doi.org/10.1002/wat2.1330>
- 2018 ● Arranz-Otaegui, A., González Carretero, L., Roe, J., & Richter, T., "Founder crops" v. wild plants: Assessing the plant-based diet of the last hunter-gatherers in southwest Asia. *Quaternary Science Reviews* 186: 263-283. <https://doi.org/10.1016/j.quascirev.2018.02.011>
- 2016 ● Martin, L., Edwards, Y., Roe, J., & Garrard, A., Faunal turnover in the Azraq Basin, eastern Jordan 28,000 to 9,000 cal BP, signalling climate change and human impact. *Quaternary Research* 86 (2): 200-219. <https://doi.org/10.1016/j.yqres.2016.07.001>



## Publications (non-peer-reviewed)

- 2023 ● Roe, J., Peer Review Report For: Inglämnlagare: a tool for restructuring Swedish HER record site data for statistical analysis [version 2; peer review: 3 approved]. *F1000Research* 11 (1370). <https://doi.org/10.5256/f1000research.157510.r222117>
- 2016 ● Roe, J., PIA at 25: A Retrospective. *Papers from the Institute of Archaeology* 25 (2): p.Art. 16. <https://doi.org/10.5334/pia.517>
- 2015 ● Allentuck, A., Martin, L., & Roe, J., Refuse Disposal in the Early Epipalaeolithic? Preliminary Zooarchaeological Evidence from Kharaneh IV, Eastern Jordan. *Bulletin of the Council for British Research in the Levant* 10: 67–69. <https://doi.org/10.1179/1752726015Z.00000000034>
- 2014 ● Roe, J., Review of *Green Arabia: Human Prehistory at the Crossroads of Continents*. *Papers from the Institute of Archaeology* 24 (1). <https://doi.org/10.5334/pia.458>



## Conference presentations

- 2025 ● Heitz, C., Ismail-Meyer, K., Aellen, C., & Roe, J., *Leben am See in Zeiten des Klimawandels – Klimaarchäologische Perspektiven auf bronzezeitliche «Pfahlbauten» im zirkum-alpinen Raum*. Presented at the Berner Zirkel für Ur- und Frühgeschichte.
- Hinz, M. & Roe, J., *Open-Source Bayesian Chronological Modeling: The Role of a Domain-Specific Language*. Presented at the Computer Applications and Quantitative Methods in Archaeology (CAA) annual conference, Athens, 5–9 May 2025.
- Geeraerts, G., Roe, J., & Levy, E., *A command-line interface for chronological network modelling in R*. Presented at the Computer Applications and Quantitative Methods in Archaeology (CAA) annual conference, Athens, 5–9 May 2025.
- Roe, J., *The chronoverse – towards a common language for chronological modelling in R*. Presented at the Computer Applications and Quantitative Methods in Archaeology (CAA) annual conference, Athens, 5–9 May 2025.
- Richter, T. & Roe, J., *Using Ancient Environmental Genomics to Improve Our Understanding of Early Agro-Ecosystems in southwest Asia (and beyond)*. Presented at the 14th International Congress on the Archaeology of the Ancient Near East.
- Martin, L., Shdeifat, A., Richter, T., Jones, M., Roe, J., Thaher, A., Alawamleh, A., Ibrahim, M., & Ghlelat, A., *Wadi al-Dahek: Report on the first season of archaeological survey and sedimentological assessment in Jordan's 'White Desert' in the eastern Badia*. Presented at the 16th International Conference on the History and Archaeology of Jordan (ICHAJ).

See my homepage for [abstracts](#) and [posters](#).

- 2024 ● Heitz, C., Ismail-Meyer, K., Aellen, C., & Roe, J., *Coping with the Cold – Climate Change Resilience and Vulnerabilities of Bronze Age Communities during the 3.7 ka ‘Löbden’ Glacier Advance (ca. 1900–1450 BCE)*. Presented at Climate of the Past and Societal Responses to Environmental Changes (Climpast), Bern, 5–8 June 2024.
- Roe, J. & Hinz, M., *XRONOS as a Resource for Archaeological Chronology in West Asia*. Presented at the Digital Ancient Near Eastern Studies (DANES) Conference, Virtual, 4–6 December 2024.
- Heitz, C., Ismail-Meyer, K., Aellen, C., & Roe, J., *Climate Change Resilience and Vulnerabilities of Waterfront Communities – Mixed Methods Research on ‘Pile Dwellings’ around the Alps (4000–800 BCE)*. Presented at the 30th Annual Meeting of the European Association of Archaeologists (EAA), Rome, 28–31 August 2024.
- Hinz, M. & Roe, J., *ESTER: Estimation of the prehistoric population of Eurasia based on a large number of records*. Presented at the World Neolithic Congress, Şanlıurfa, 4–8th November 2024.
- Roe, J. & Hinz, M., *Estimating the prevalence of post-agricultural population declines through the global radiocarbon record*. Presented at the World Neolithic Congress, Şanlıurfa, 4–8th November 2024.
- 2023 ● Roe, J. & Hinz, M., *XRONOS: open chronometric data from archive to infrastructure*. Presented at Digital Archaeology Bern 2023.
- Roe, J., *Modelling the range of wild plants and crop progenitors in the Late Epipalaeolithic–Early Neolithic Levant*. Presented at Digital Archaeology Bern – Ancient West Asia.
- Roe, J., *More than just porridge: old materialism and the macroarchaeology of the Neolithic Revolution*. Presented at the 13th International Congress on the Archaeology of the Ancient Near East, Copenhagen.
- 2022 ● Hinz, M. & Roe, J., *Zoom and Enhance: high-resolution reconstruction of macro-scale processes with Bayesian hierarchical models*. Presented at the European Association of Archaeologists (EAA) Annual Meeting, Budapest, 31 August – 3 September.
- Roe, J., *Are we what we eat? The Southwest Asian ‘Neolithic Revolution’ as macroarchaeological theory*. Presented at the European Association of Archaeologists (EAA) Annual Meeting, Budapest, 31 August – 3 September.
- Roe, J. & Hinz, M., *XRONOS: challenges in building a global open repository for chronometric data*. Presented at the European Association of Archaeologists (EAA) Annual Meeting, Budapest, 31 August – 3 September.

- Roe, J., *Out with the new, in with the old: recent advances in palaeoecological modelling with open data*. Presented at the Association for Environmental Archaeology Spring Meeting 2021: Open Science Practices in Environmental Archaeology, Oxford.
- Roe, J., *A revised radiocarbon chronology of Ganj Dareh*. Presented at the 53rd Annual Meeting of the Canadian Archaeological Association, 'Ganj Dareh Then and Now: Integrating Past and Current Research'.
- Roe, J., *Nonequilibrium dynamics in models of human palaeoecology*. Presented at Computer Applications & Quantitative Methods in Archaeology (CAA), Limassol (Virtual).
- Batist, Z. & Roe, J., *Open archaeology: a survey of collaborative software engineering in archaeological research*. Presented at Computer Applications & Quantitative Methods in Archaeology (CAA), Limassol (Virtual).
- Roe, J., *Computational models of chronology and regional settlement in the Epipalaeolithic–Neolithic Zagros (20000–6000 BP)*. Presented at the 'Revisiting the Hilly Flanks: the Epipalaeolithic and Neolithic periods in the eastern Fertile Crescent' conference, Copenhagen.
- Pedersen, P. N., Roe, J., & Richter, T., *Free foragers? A case for transient social inequality at Epipalaeolithic Shubayqa, eastern Jordan*. Presented at the 12th International Congress on the Archaeology of the Ancient Near East, Bologna.
- Roe, J., *On uncertain ground: modelling human palaeoecology in the Azraq basin, eastern Jordan, 24,000–8,000 BP*. Presented at the 12th International Congress on the Archaeology of the Ancient Near East, Bologna.

- 2019 ● Roe, J., *\*\*Gorram shiny!\*\* An accessible interface for reproducible landscape archaeology with R and fieldwalkr\**. Presented at Computer Applications & Quantitative Methods in Archaeology (CAA), Kraków.
- Richter, T., Arranz Otaegui, A., Jones, M., Roe, J., & Yeomans, L., *Environmental Crisis and Societal Collapse: Was the Younger Dryas a significant factor in triggering the transition from the Palaeolithic to the Neolithic in the Levant?*. Presented at 'Culture in Crisis: Flows of Peoples, Artifacts and Ideas', the 14th International Conference on the History and Archaeology of Jordan (ICHAJ 14), Florence.
- Arranz-Otaegui, A., Roe, J., Pantos, G. A., Santana, J., Araus-Cabrera, J. L., Le Roux, P., & Richter, T., *Locally available or imported? Identifying the provenance of Natufian plant food and fuel resources at Shubayqa 1 (northeastern Jordan)*. Presented at the 18th conference of the International Workgroup for Palaeoethnobotany (IWGP), Lecce.
- Buffington, A., Olson, K., Roe, J., Al Kathiri, A. A., McCorriston, J., *Over Mountains and Through Woods: survey results and preliminary spatial analysis of the 2018 field season of the Ancient Socio-Ecological Systems in Oman (ASOM) project*. Presented at the 53rd Seminar for Arabian Studies, Leiden.
- Roe, J., & Richter, T., *Mutable mobilities: 15,000 years of nomadic settlement in the Qa' Shubayqa, eastern Jordan*. Presented at the 53rd Seminar for Arabian Studies, Leiden.
- Pantos, G. A., & Roe, J., *A halfway house: open source tools for tidy photographic and 3D data management between the field and the archive*. Presented at Computer Applications & Quantitative Methods in Archaeology (CAA), Kraków.
- Roe, J., *The Q Continuum: open source GIS tools for paperless field survey*. Presented at Computer Applications & Quantitative Methods in Archaeology (CAA), Kraków.
- Roe, J., Pedersen, P. N., Khosravi, S., *A survey of early prehistoric sites in the Razavar Valley (Kermanshah, Iran)*. Presented at the British Association for Near Eastern Archaeology (BANE) annual conference, Liverpool.
- 2018 ● Roe, J., *Is there anything R can't do?*. Presented at the Computer Applications and Quantitative Methods in Archaeology (CAA) conference, Tübingen.
- Roe, J., *fieldwalkr: an R package for spatial sampling and field survey simulation*. Presented at the Landscape Archaeology Conference (LAC), Newcastle & Durham.
- Richter, T., Arranz-Otaegui, A., Boaretto, E., Jones, M., Roe, J., & Yeomans, L., *Reconstructing Environmental Impacts on Late Pleistocene and Early Holocene Societies in the Marginal Zone of the southern Levant: A Case Study from Shubayqa*. Presented at the XVIII UISPP World Congress, Paris.
- Roe, J., *The Zagros in Prehistory: geography, chronology, demography*. Presented at the British Association for Near Eastern Archaeology (BANE) annual conference, Liverpool, 2019, and the KU Archaeology Day.
- 2017 ● Martin, L. & Roe, J., *The Complexities of Mammalian Body Size Change in Late Pleistocene to Holocene Southern Levant, 35 years on*. Presented at 'From the Mediterranean to the Atlantic: themes in European zooarchaeology', Museum of Natural History and Science, Lisbon.
- 2016 ● Roe, J., *A greener model of palaeoenvironments in the eastern Levant*. Presented at Unravelling the Palaeolithic, Southampton.

- 2015 ● Allentuck, A., Martin, L., Roe, J., *Domestic maintenance practices in the Early Epipalaeolithic of the Jordanian steppe*. Presented at the 12th International Symposium of the ICAZ Archaeozoology of Southwest Asia and Adjacent Areas Working Group (ASWA), Groningen.
- Roe, J. & Martin, L., *Open season: modelling prehistoric wildlife dynamics in Epipalaeolithic and Neolithic Jordan*. Presented at the British Association for Near Eastern Archaeology (BANE) annual conference, London.
- Allentuck, A., Roe, J., Martin, L., Macdonald, D., & Maher, L., *Zooarchaeological evidence for domestic maintenance in the Early Epipalaeolithic*. Presented at the British Association for Near Eastern Archaeology (BANE) annual conference, London.



## Software & datasets

- 2023 ● [rpaleoclim: R interface for paleoclimate data](#)
- 2023 ● [open-archaeo: a list of open source archaeological software and resources](#)  
Zenodo
- 2022 ● [era: R package for years with an era](#)
- 2020 ● [c14: R package for tidy radiocarbon data](#)
- 2020 ● [rintchron: R interface to IntChron](#)
- 2020 ● [stratigraphr: R package for archaeological stratigraphy and chronological sequences](#)
- 2020 ● [evoarchdata: datasets from studies of cultural evolution in archaeology](#)
- 2019 ● [Data from Uerpmann 1987, The Ancient Distribution of Ungulate Mammals in the Middle East, TAVO A27](#)  
Zenodo
- 2019 ● [Trypillia mega-sites of the Ukraine](#)  
Archaeology Data Service
- 2018 ● [fieldwalkr: R package for spatial sampling and survey simulation](#)

I am also an active contributor to a number of [other open source software](#) and [open data projects](#).





## Field projects

2019	● <b>Field director</b> Shubayqa Archaeological Project	📍 Jordan
2018	● <b>Field archaeologist</b> Ancient Socioecological Systems in Oman (ASOM) project	📍 Oman
2018	● <b>Supervisor</b> Razavar Valley Survey	📍 Iran
2018   2015	● <b>Field archaeologist &amp; supervisor</b> Shubayqa Archaeological Project	📍 Jordan
2015	● <b>Field archaeologist</b> Kharaneh IV Project	📍 Jordan
2014   2012	● <b>Field archaeologist &amp; supervisor</b> Tripillia Mega-Sites Project	📍 Ukraine
2012	● <b>Supervisor</b> Mirkovo Project	📍 Bulgaria
2009	● <b>Trainee</b> Tripillia Mega-Sites Project	📍 Ukraine
2007	● <b>Trainee</b> York Archaeological Trust	📍 England

In the field, I specialise in site prospection, intrasite survey, digital recording and GIS.

I was responsible for the survey component Shubayqa Archaeological Project (2018–2019), including designing the research strategy, planning and obtaining permits, and directing teams on the ground.



## Grants & scholarships






2022	● <b>Young Researchers' Promotion Fund</b> And other internal funds	📍 University of Bern
	• 7300 CHF for 'Digital Archaeology Bern 2023'	
	• Small grants for conference and workshop participation	
2019	● <b>Project grant</b> Danmarks Frie Forskningsfond	
	• "Connecting the Dots: Reconfiguring the Indo-European family tree"	
	• Named applicant. PI: Dr. Thomas Olander	

- 2018 ● **Fieldwork grant**  
Det Danske Institut i Damaskus
  - 115,000 DKK to support archaeological fieldwork in eastern Jordan (2019)
  - Co-applicant with Dr. Tobias Richter
- 2018 ● **Fieldwork grant**  
H. P. Hjerl Hansen Mindefondet for Dansk Palæstinaforskning
  - 50,000 DKK to support archaeological fieldwork in eastern Jordan (2019)
  - Co-applicant with Dr. Tobias Richter
- 2016 ● **Project grant**  
C. L. Davids Fond og Samling
  - “Tracking Cultural and Environmental Change: the Epipalaeolithic and Neolithic in the Seimarreh Valley, central Zagros”
  - Named applicant. PIs: Prof. Peder Mortensen, Dr. Tobias Richter, Dr. Hojjat Darabi
- 2015 ● **Institute of Archaeology Award**  
UCL Institute of Archaeology 📍 London
  - Individual grant (£1888) to participate in archaeological fieldwork in eastern Jordan
- 2014 ● **Research Students’ Conference Grant**  
London Centre for the Ancient Near East (LCANE)
- 2013 ● **PhD Studentship**  
Leverhulme Trust
  - Part of Research Project Grant RPG-2013-223
- 2012 ● **Research-preparation Masters Award**  
Arts and Humanities Research Council

## Teaching & public engagement

- 2024 ● **Guest lecturer** 📍 University of Copenhagen
  - “Theory and Method in Near Eastern Archaeology” (CCRS)
  - “Advanced Archaeological Methods” (Saxo Institute)
- 2024  
|  
2020 ● **Instructor** 📍 University of Pisa
  - For five years I have led an intensive [two-day workshop on data visualisation in R](#) for archaeologists

Promoting computational tools, and especially R, in archaeology has been a particular focus; I have experience in teaching at a range of levels, as well as informally mentoring students and colleagues.

- 2023  
|  
2022
- **Course lecturer**  
Institute of Archaeological Sciences  University of Bern
    - Lead instructor on BA-/MA-level courses [GIS in Archaeology](#) and [Statistical Methods for Archaeological Data Analysis](#) (SMADA)
    - Recognised for “Excellence of Teaching” for SMADA 2023 (top 14% of courses in the Faculty of Humanities according to student satisfaction)
- 2021  
|  
2018
- **Course lecturer**  
Department of Cross-Cultural and Regional Studies  University of Copenhagen
    - BA: “Practical Archaeology 1” (Arkæologisk praksis 1, [HNAB0100FU](#)), “Practical Archaeology 2” (Arkæologisk praksis 2, [HNAB0102EU](#)), “Science and Theory of Science” (Videnskabsteori, [HTOR0102FU](#))
    - KA: “Theory and Method in Near Eastern Archaeology” ([HNAK0101EU](#)), “Environments and landscapes in the archaeological record of southwest Asia” ([HNAB0102FU](#)), “Neolithic to Early Urban Periods in the Near East” ([HNAK0102EU](#)), “Project-based course” ([HNAK0100FU](#))
- 2020
- **Workshop organiser**  
Department of Cross-Cultural and Regional Studies  University of Copenhagen
    - Led an intensive two-day workshop on mobile GIS for linguistic field research
- 2016  
|  
2015
- **Postgraduate Teaching Assistant**  
UCL Institute of Archaeology  University College London
    - ARCL2028 Research & Presentation Skills
- 2016  
|  
2014
- **Tutor**  
[The Brilliant Club](#)  Schools in London
    - Designed and delivered a university-style tutorial course for primary and high school students
- 2015
- **Student Volunteer**  
*Maths and Archaeology workshop*  Petrie Museum of Egyptian Archaeology
    - Outreach event for high school students organised by Dr. Alice Stevenson (Petrie Museum) and Dr. Luciano Rila (UCL Mathematics) and supported by the London Mathematical Society



**Professional service**

## ● Peer review

### Journals

- *Journal of Open Source Software*: [#4335](#), [#5811](#)
- *Journal of Open Archaeology Data* (2)
- *PCI Archaeology*: [#333](#)
- *Advances in Archaeological Practice* (1); *Open Archaeology* (1); *Open Quaternary* (1); *PLOS ONE* (1)

2023  
|  
2020

## ● Member of Review College

### [CAA International](#)

- Reviews completed: CAA2025 (4); CAA2024 (4); CAA2023 (3); CAA2022 (7); CAA2021 (8); CAA2020 (3)

2023

## ● Conference organiser

### [Digital Archaeology Bern 2023](#)

📍 Bern

2021

## ● Session organiser

### CAA2021

📍 Limassol

- S17: [Tools for the Revolution: developing packages for scientific programming in archaeology?](#)

2019

## ● Session organiser

### CAA2019

📍 Kraków

- S06: *Recent advances in spatial statistics for archaeology*

2016  
|  
2014

## ● Senior Editor

### [Papers from the Institute of Archaeology](#)

📍 University College London

2016  
|  
2014

## ● Postgraduate Student Representative

### UCL Institute of Archaeology

📍 University College London

- Communications Committee
- Publications Committee

2014  
|  
2013

## ● Editorial Assistant

### [Papers from the Institute of Archaeology](#)

📍 University College London

2014

## ● Conference organiser

### [Postgraduate Zooarchaeology Forum \(PZAF\)](#)

📍 London



## Professional memberships

current  
|  
2025






## ● [Managing Artificial Intelligence in Archaeology](#)

- European COST Action 23141
- Management Committee Representative for Denmark

I am especially active in CAA International and its [special interest group for scientific scripting languages](#).

- current  
|  
2025 ● **CAA Denmark / [CAA Danmark](#)**
  - Committee Member / Bestyrelsesmedlem
- current  
|  
2020 ● **[Society of Research Software Engineering](#)**
- current  
|  
2014 ● **[Council for British Research in the Levant](#)**
- current  
|  
2014 ● **[Computer Applications and Quantitative Methods in Archaeology International](#)**
  - Member of Review College (2018–present)
  - Member of ‘Scientific Scripting Languages in Archaeology’ special interest group (2019–present)

## Workshop & seminar participation

- 2024 ● **[MOSAICchrono Summer School](#)**  
International Summer School  European Archaeological Centre, Bibracte
  - Invited guest lecturer
  - Led workshop on “radiocarbon and aoristic modelling”
- 2019 ● **“Scientific Scripting Languages in Archaeology” Roundtable**  
CAA2019  Kraków
- 2018 ● **“Connecting the Dots”**  
International Summer School  Christian-Albrecht University of Kiel
  - Development of the R package [moin: Modeling Interaction in Landscape Archaeology](#)
- 2017 ● **Shubayqa Project Workshop**  
Workshop  University of Copenhagen
- 2016 ● **Near East Climate Workshop**  
Workshop  University of Nottingham


## Other employment & volunteering

In my work with Wikipedia and other Wikimedia projects, I seek to promote engagement between academic archaeology and the free knowledge movement.

current  
|  
2010

- **Editor & administrator**  
English Wikipedia
  - Community-appointed administrator
  - Elected member of the Arbitration Committee (2019–2020)


2018

- **Gateway Advisor**  
Kirklees Citizens Advice Bureau  Dewsbury

2012

- **Curatorial assistant**  
Gradski Musej Vršac  Vršac

2012

- **Software engineer**  
[TPP SystmOne](#)  Leeds
  - Front-end and data migration programming for a large clinical systems developer, working with Java and SQL