Bjørn Peare Bartholdy

RESEARCHER, DATA STEWARD

I'm a Researcher in Archaeology working to learn more about what people ate in the past, using methods from archaeology and oral microbiology. I'm dedicated to keeping my research and findings accessible, transparent, and reproducible. I enjoy exploring different ways to communicate my findings, in addition to the more conventional publishing methods. I also work as a Data Steward, where I support and train other researchers in Research Data Management and Open Science.

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EDUCATION

PhD in Archaeological Science, Leiden University	2017 – 2024
MSc in Osteoarchaeology, Leiden University	2016 – 2017
B.Sc. in Archaeology, University of Calgary	2011 – 2015

POSITIONS

Data Steward 08/2022 – present
TU Delft, Faculty of Mechanical Engineering — *Delft, NL*

- Reviewing Data Management Plans for researchers on grants and submitting ethics applications.
- Providing training on Research Data Management.
- Assisting with the research assessment (SEP protocol), particularly the Open Science section.

TEACHING

Data Management Plan training, Instructor — *Delft University of Technology* 2022 – Present
- PhD course on Research Data Management and preparing a Data Management Plan with DMPonline.

Carpentries, Certified Instructor 2021 – present
- R for Social Sciences. Two-day workshops organised three times a year by Leiden University, TU Delft, and Erasmus University Rotterdam

Quantitative Methods in Archaeology, Instructor — *Leiden University* 2020 – 2023
- MSc statistics taught with the R programming language.

Osteoarchaeology, Teaching Assistant — *Leiden University* 2018
- BA course on osteoarchaeology

GRANTS AND FUNDING

Open Science NL, Open Science Meetings 2024
- Organising an Unconference on Open Science in Archaeology

ARCHON, ARCHON Event Funding 2024
- Organising an Unconference on Open Science in Archaeology

CONFERENCES AND INVITED LECTURES

24th European Meeting of Paleopathology Association. 2024
Poster presentation. *Patterns of Linear Enamel Hypoplasia and Missing Teeth: What does it all mean and why should we care?*

13th annual ESHE meeting. 2023
Poster presentation. *Sharing is Caring: Insights into the data sharing mindset in paleoanthropology*

91st Annual Meeting of the American Association of Biological Anthropologists.	2022

Podium presentation. *The Real Deal? Validation of a Dental Calculus Model Using FTIR.*

89th Annual Meeting of the Canadian Association for Physical Anthropology. 2021
Podium presentation. *Exploring Dental Calculus and Diet Through an Oral Biofilm Model.*

89th Annual Meeting of the American Association of Physical Anthropologists. 2020
Podium presentation. *Build-a-Calculus: Experimental dietary research on in vitro dental calculus.*

8th International Symposium on Biomolecular Archaeology. 2018
Podium presentation. *Back to Basics: Introducing a model calculus system to test fundamental aspects of dental calculus research.*

21st Annual Meeting of the British Association for Biological Anthropology and Osteoarchaeology. 2018
Poster presentation. *A Question of Calibration: Comparing inverse and classical calibration on a recently developed age-at-death estimation method.*

∂ OPEN ACCESS

Bartholdy, B. P., Hasselstrøm, J. B., Sørensen, L. K., Casna, M., Hoogland, M., Beemster, H. G., & Henry, A. G. (2024). Multiproxy analysis exploring patterns of diet and disease in dental calculus and skeletal remains from a 19th century Dutch population. *Peer Community Journal, 4.* https://doi.org/10.24072/pcjournal.414

Bartholdy, B. P., Velsko, I. M., Gur-Arieh, S., Fagernäs, Z., Warinner, C., & Henry, A. G. (2023). Assessing the validity of a calcifying oral biofilm model as a suitable proxy for dental calculus (p. 2023.05.23.541904). *bioRxiv.* https://doi.org/10.1101/2023.05.23.541904

Bartholdy, B. P., & Henry, A. G. (2022). Investigating Biases Associated With Dietary Starch Incorporation and Retention With an Oral Biofilm Model. *Frontiers in Earth Science, 10.* https://doi.org/10.3389/feart.2022.886512

Bartholdy, B. P., Sandoval, E., Hoogland, M. L. P., & Schrader, S. A. (2020). Getting Rid of Dichotomous Sex Estimations: Why Logistic Regression Should be Preferred Over Discriminant Function Analysis. *Journal of Forensic Sciences, 65*(5), 1685–1691. https://doi.org/10.1111/1556-4029.14482

Bartholdy, B. P., Hoogland, M. L. P., & Waters-Rist, A. (2019). How old are you now? A new ageing method for nonadults based on dental wear. *International Journal of Osteoarchaeology, 29*(4), 622–633. https://doi.org/10.1002/oa.2758

⊕ OPEN DATA

Bartholdy, B. P. (2023). Dental, pathological, and UHPLC data from Middenbeemster archaeological site (1.0.0) [Data set]. Zenodo. https://doi.org/10.5281/zenodo.8061483

Bartholdy, B. P. & Gur-Arieh, S. (2023). Supplementary data: Assessing the Validity of a Calcifying Oral Biofilm Model as a Suitable Proxy For Dental Calculus. 4TU.ResearchData. https://doi.org/10.4121/466b2588-9689-4d84-a8a0-5216aa39e40b.v1

⊘ OPEN MATERIALS

Code. bbartholdy/endgame: Endgame 2024.04.0 (Printed version) (2024.04.0). Zenodo. https://doi.org/10.5281/zenodo.11077010

Code. bbartholdy/mb11CalculusPilot: Version of record (1.0.0). Zenodo. https://doi.org/10.5281/zenodo.11040640

Code. bbartholdy/byoc-starch: Restructure R functions (v0.2.0). Zenodo. https://doi.org/10.5281/zenodo.10458492

Protocol. Biofilm growth with starch treatment. protocols.io https://dx.doi.org/10.17504/protocols.io.eq2lypqzelx9/v2

Protocol. Artificial saliva. protocols.io https://dx.doi.org/10.17504/protocols.io.3byl4k1jzvo5/v2

OPEN EDUCATION

Slides. Bjørn Peare Bartholdy. (2023, January 13). Quantitative Methods in Archaeology. Zenodo. https://doi.org/10.5281/zenodo.7534699

Slides. Bjørn Peare Bartholdy. (2022, November 7). Data Management Plan Training for 3mE PhD students - Part 1. Zenodo. https://doi.org/10.5281/zenodo.7908034

OTHER OUTPUT

Blog post. 2019. Spit, Tartar, and Burial: an Experiment's Diary. Leiden Archaeology Blog. https://leidenarchaeologyblog.nl/articles/spit-tartar-and-burial-an-experiments-diary.

ORGANISATIONS AND COMMUNITIES

SPAAM - Standards, Precautions, and Advances in Ancient Metagenomics

GHOST - Games of Horror for Open Science Training

OSCL - Open Science Community Leiden

OSCD - Open Science Community Delft

R Cafe @ TU Delft

INTERVIEWS

Cut the tyranny of copy-and-paste with these coding tools. 2022. Nature Technology Feature. https://www.nature.com/articles/d41586-022-00563-z

Preprints and preregistration: making your research or research plans publicly available at an early stage. 2022. https://digitalscholarshipleiden.nl/articles/preprints-and-preregistration-making-your-research-or-research-plans-publicly-available-at-an-early-stage

Tooth tartar could uncover the drug habits of ancient people. 2021. Science News. https://doi.org/10.1126/science.abg4710

How to start with Open Science: 'It has increased my workflow efficiency enormously'. 2021. Leiden University Newsletter. https://www.staff.universiteitleiden.nl/news/2021/05/how-to-start-with-open-science-it-has-increased-my-workflow-efficiency-enormously?cf=archaeology&cd=archaeological-sciences

SKILLS

· **Frontend** HTML, CSS

· **Backend** R, REST APIs

· **DevOps** Linux, Git, GitHub Actions, Bash

LANGUAGES

English (native), Danish (fluent), Dutch (basic)