

Bjørn Peare Bartholdy

PhD Student

Education

- 2017–present **PhD**, *Archaeological Sciences*, Leiden University.
2016–2017 **MSc**, *Human Osteology and Funerary Archaeology*, Leiden University.
2011–2015 **BSc (Honours)**, *Archaeology*, University of Calgary.

Research Interests

- Dental anthropology
- Palaeodietary reconstruction
- Skeletal biology
- Palaeoradiology
- Open Science
- Statistics

Research Experience

- 2017–present **PhD Research**, *Leiden University*.
Protocol development for *in vitro* dental calculus.
- 2016–2017 **MSc Research**, *Leiden University*.
Analysis of dental health in non-adults from a 19th cent. Dutch population using micro-CT.
- 2014–2015 **BSc Research**, *University of Calgary*.
Micro-CT analysis of vertebrae with vertebral osteophytosis.
- 2014–2015 **Advanced Zooarchaeology**, *University of Calgary*.
Ancient DNA analysis of 18 canid bones.

Teaching Experience

- 2021–2022 **Certified Instructor**, *Data Carpentry*.
R for Social Sciences | Four day Data Carpentry workshop organised by Leiden University, TU Delft, and Erasmus University Rotterdam
- 2020–2022 **Instructor**, *MSc Quantitative Methods in Archaeology*, Leiden University.
Statistics and R
- 2019–2020 **Guest lecturer**, *MSc Thesis Tutorial*, Leiden University.
Statistics and SPSS
- 2019 **Guest lecturer**, *MSc Palaeopathology*, Leiden University.
Dental Pathology and Congenital Abnormalities
- 2019 **Guest lecturer**, *BA3 Ancient Foodways*, Leiden University.
Diet and Dental Calculus

- 2018 **Teaching assistant**, *BA3 Osteoarchaeology*, Leiden University.
10 EC
- 2016 **Visiting speaker**, *AN(th)ARKY talks*, University of Calgary.
Vampirism and Palaeopathology

Thesis Supervision

- 2018–2022 **MSc Human Osteology and Funerary Archaeology**, *Leiden University*.
 - Claudia Bressan
 - Veronica Jackson
 - Mayke Bruijstens
 - Judyta Olszewski

Archaeological Practice

- 2017 **Human Osteology internship**, *Leiden University*.
Complete osteological analysis of five skeletons
- 2015 **Public Archaeology Program**, *University of Calgary*.
Four days of excavation at the Cluny Fortified Village Site (EePf-1)
- 2014 **Mortuary archaeology field school**, Drawsko, Poland.
Three weeks of fieldwork at an 18th century cemetery, including labwork and human osteology lectures

Professional Activities

Positions

- 2021–2022 **Ambassador**, *Open Science Community Leiden*.
- 2020–2022 **Steering committee**, *ARCHON Research School of Archaeology*.
- 2019–2022 **Editor-in-Chief**, *Inter-Section – Archaeological Research Journal*.
- 2014–2015 **Volunteer coordinator**, *Ole Christensen Memorial Reading Room*, University of Calgary.

Conference and Workshop Organisation

- 2021 **Organising committee**, *ARCHON Day 2021*, ARCHON, Decolonising Archaeology.
28 October
- 2021 **Organiser**, *Academic Poster Presentation Workshop*, ARCHON.
24 September
- 2020 **Organising committee**, *ARCHON Day 2020*, ARCHON, 28 October.
- 2020 **Organiser**, *Dental Non-Metric Workshop*, Leiden University.
9–10 March
- 2014–2015 **Organising committee**, *Chacmool Archaeology Conference 2015*.

Publications

- 2022 **Bartholdy, BP**, and AG Henry. Investigating Biases Associated with Dietary Starch Incorporation and Retention with an Oral Biofilm Model. *Accepted for publication by Frontiers in Earth Science*. <https://www.frontiersin.org/articles/10.3389/feart.2022.886512/full>
- 2020 **Bartholdy, BP**, E Sandoval, MLP Hoogland, and SA Schrader. 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>
- 2019 **Bartholdy, BP**, MLP Hoogland, and A Waters-Rist. How Old Are You Now? A New Ageing Method for Nonadults Based on Dental Wear. *International Journal of Osteoarchaeology*, 29(4), 622–33. <https://doi.org/10.1002/oa.2758>
- 2017 **Bartholdy, BP**, K Hacking, TJ Murchie, and C Verwoerd. Dog Days on the Plains: A Preliminary ADNA Analysis of Canid Bones from Southern Alberta and Saskatchewan. *Canadian Journal of Archaeology* 41, 46–62.

Preprints

- 2021 **Bartholdy, BP**, and AG Henry. Investigating Biases Associated with Dietary Starch Incorporation and Retention with an Oral Biofilm Model. *bioRxiv*. <https://doi.org/10.1101/2021.10.27.466104>

Publications, Non-Peer Reviewed

- 2019 *Spit, Tartar, and Burial: an Experiment's Diary*. Leiden Archaeology Blog (leidenarchaeologyblog.nl/articles/spit-tartar-and-burial-an-experiments-diary).
- 2018 Henry, AG, EJ Devereux, and **BP Bartholdy**, European Society for the Study of Human Evolution 2017: old sites, new methods, *Evolutionary Anthropology* 27(1): 5-6.
- 2015 *Bloodsucking Diseases: applying vampire superstition to paleopathology*. Proceedings of the 47th Annual Chacmool Archaeological Conference. 191-201.

Press Coverage

- 2022 *Cut the tyranny of copy-and-paste with these coding tools*. <https://www.nature.com/articles/d41586-022-00563-z>
- 2022 Preprints and preregistration: making your research or research plans publicly available at an early stage. <https://digitalscholarship.leiden.nl/articles/preprints-and-preregistration-making-your-research-or-research-plans-publicly-available-at-an-early-stage>
- 2021 *Tooth tartar could uncover the drug habits of ancient people*. <https://www.science.org/content/article/tooth-tartar-could-uncover-drug-habits-ancient-people>
- 2021 *How to start with Open Science: 'It has increased my workflow efficiency enormously'*. Leiden University Newsletter

Conferences

Podium Presentations

- 2022 **Bartholdy, BP**, and AG Henry, *The Real Deal? Validation of a Dental Calculus Model Using FTIR*. 91st Annual Meeting of the American Association of Biological Anthropologists.
- 2021 **Bartholdy, BP**, and AG Henry, *Exploring Dental Calculus and Diet Through an Oral Biofilm Model*. 89th Annual Meeting of the Canadian Association for Physical Anthropology.
- 2020 **Bartholdy, BP**, FH Reidsma, and AG Henry, *Build-a-Calculus: Experimental dietary research on in vitro dental calculus*. 89th Annual Meeting of the American Association of Physical Anthropologists.
- 2019 *Cooking up Calculus: Experimental dietary research on a model calculus system*. NVFA symposium: New Methods and Techniques
- 2018 **Bartholdy, BP**, and AG Henry, *Back to Basics: Introducing a model calculus system to test fundamental aspects of dental calculus research*. Presented at the 8th International Symposium on Biomolecular Archaeology, Jena, Germany.
- 2015 **Bartholdy, BP**, K Hacking, and TJ Murchie. *Dog Days on the Plains: Comparison of three sites on the Canadian plains through aDNA analysis of canid bones*. Presented at the 47th Annual Meeting of the Canadian Archaeological Association, St. John's, Canada.
- 2014 *Bloodsucking diseases: Applying vampire superstition to paleopathology*. Presented at the 47th Chacmool archaeology conference, Calgary, Canada.

Poster Presentations

- 2019 **Bartholdy, BP**, and A Waters-Rist. *A Question of Calibration: Comparing inverse and classical calibration on a recently developed age-at-death estimation method*. Presented at the 21st Annual Meeting of the British Association for Biological Anthropology and Osteoarchaeology.
- 2018 **Bartholdy, BP**, MLP Hoogland, A Waters-Rist. *Barking up the wrong tree? Searching for sexual dimorphism in deciduous enamel thickness and density*. Presented at the 87th Annual Meeting of the American Association of Physical Anthropologists.
- 2017 *Myco Spikes: A proposed standard for fossil calibration in evolutionary tuberculosis studies*. Presented at the 19th Annual Meeting of the British Association for Biological Anthropology and Osteoarchaeology.
- 2016 *I C(T) Dead People*. Poster presented at the 85th Annual Meeting of the American Association of Physical Anthropologists, Atlanta, GA.
- 2015 Hacking, K, **BP Bartholdy**, and TJ Murchie. *Wolf, coyote, dog, or hybrid? Phylogenetic study of canid remains*. Poster presented 47th Annual Meeting of the Canadian Archaeological Association, St. John's, Canada.

Volunteer

- 2014 Volunteer, 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada.
- 2014 Volunteer, 47th Chacmool Archaeology conference, Calgary, Canada.

Awards

2015 Jason Lang Scholarship

Grants

2019 Leiden University Fund, 1065 Euro

Memberships

2019–present Member, ARCHON Research School of Archaeology
2019–present Member, Naturvidenskab i Arkæologien (Science in Archaeology)
2018–present Member, Dental Anthropology Association
2017–present Member, British Association for Biological Anthropology and Osteoarchaeology
2015–present Member, American Association of Physical Anthropologists
2015–present Member, Paleopathology Association
2015 Member, Canadian Archaeological Association
2013–2015 Member, Chacmool Archaeology Association

Skills

Languages

Fluent reading, writing, and speaking in Danish and English. Basic Dutch reading and speaking.

IT

Linux, Windows, Windows Office Suite, R Statistical Software, Markdown, and LaTeX.

References

References available upon request.