

AURÉLIE ARTIZZU

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EDUCATION

PhD in Archaeology

November 2022 – Present

Paris 1 Panthéon-Sorbonne University, Paris 05 Panthéon, France

Title: « Skin on bones: contribution of ZooMS analyses and ancient DNA on parchments and bones to the knowledge of livestock systems in the twelfth and thirteenth centuries in northern France »

Supervisors: Professor Christophe Petit (University of Paris 1)

Annelise Binois-Roman (University of Paris 1)

Funding: Doctoral contract awarded by the Research Commission of the University of Paris 1 (Dec. 2023 - Dec. 2026)

Master's degree in Archaeology

September 2020 – June 2022

Paris 1 Panthéon-Sorbonne University, Paris 05 Panthéon, France

Graduated with Merit

Title of the Master 2 thesis: « Proteomic analyses of the archives of the Abbey of Morimond (12th - 15th centuries) - Animal identification and factors of variation » - part of the European Beast to Craft (B2C) project

Supervisor: Annelise Binois-Roman (University of Paris 1)

Title of the Master 1 thesis: « Study of the archives of Morimond Abbey, Haute-Marne - Origin and preservation » based on the study of parchments, from the Morimond Abbey in France, from the twelfth to the fifteenth century - part of the European Beast to Craft (B2C) project

Supervisor: Annelise Binois-Roman (University of Paris 1)

Master's Degree in Analytical Chemistry

September 2019 – September 2020

University of Strasbourg, Strasbourg, France

Chemistry and physical chemistry for the development of new analytical methods applied to bioarchaeology (Lipid biomarkers)

Title of the Master 2 thesis: « Studying "dark matter" in ancient Egypt »

Supervisor: Jérémy Brandel (IPHC)

Master's degree in Engineering

September 2017 – September 2020

European School of Chemistry, Polymers and Materials Science (ECPM), Strasbourg, France

A core curriculum in analytical sciences, molecular chemistry, polymer engineering, functional materials and nanoscience

Preparatory classes (CPGE PC)

June 2014 – August 2017

Lycée Lakanal, Sceaux, France

Two-year undergraduate intensive course in physics and chemistry to prepare for admission to the French "Grandes Écoles"

Baccalauréat Scientifique

June 2014

Lycée Marie-Curie, Sceaux, France

Mention: Major in Sciences with highest honors

TEACHING/SUPERVISING EXPERIENCE

Lecturer

March 2023 – April 2025

Paris 1 Panthéon-Sorbonne University, Paris 05 Panthéon, France

- Lectures in Materials Analysis for Archaeology for both Licence and Master levels with 6 heqCM.
- Tutorials and evaluation of statistics training (CM/TD) for archaeology for Licence level with 54 heqTD.

Final project

September 2019 – January 2020

TEREOS France, Strasbourg, France

Research of co-products from agricultural raw materials and valorisation of alfalfa on the market (fractionation techniques and added value in the food sector).

Planning manager for an industrial mission

September 2018 – April 2019

BAYA, Strasbourg, France

Identification of a more environmentally friendly material for polyvinyl chloride (PVC) yoga mats.
Management of a team of nine students.

WORK EXPERIENCE

Research analyses - PhD in Archaeology

February 2025 – July 2025

University of Cambridge, Cambridge, United Kingdom

ZooMS study of parchments from the abbeys of Clairvaux, Larrivour and Morimond

Laboratory research internship - Master's in Archaeology

February 2022 – March 2022

University of Cambridge, Cambridge, United Kingdom

ZooMS study on a corpus of archaeological samples (parchments, bones and manufactured objects) from Morimond Abbey - part of the European project Beast to Craft (B2C)

Final-year internship

February 2020 – August 2020

Centre for Research and Restoration of the Museums of France (C2RMF), Paris, France

- Contribution of gas chromatography coupled with mass spectrometry (GC-MS) in the detection of bitumen and its origin
- Data processing on crocodile and mummy balms

Engineering internship

May 2019 – August 2019

Kumidas, Ixelles, Belgium

Chemical controller of the elaboration of certificates of analysis and pharmacovigilance data sheets.
Technical support on active substances and ionic liquids for the sales team.

Laboratory internship

February 2019 – March 2019

Hubert Curien Multidisciplinary Institute (IPHC), Strasbourg, France

Development of a quantitative method in X-ray fluorescence spectrometry. Applications to hair and alloys.

ARCHAEOLOGICAL EXPERIENCE

Excavation internship

October 2021

Brotonne Forest, France

Excavation internship in environmental archaeology on the site of the Gallo-Roma Villa de la Mosaïque in Arelaune-sur-Seine, France. Realization of stratigraphic sections and study of soil pits.
Supervisor: Christophe Petit (University of Paris 1)

PROFESSIONAL MEMBERSHIPS

PARTICIPATION IN RESEARCH AND LABORATORY GROUPS

ERC Beasts to Craft (B2C)

To collect biological and technical information on parchment to trace the history of parchment improvements and production in Europe from 500 to 1900 A.D.

Environmental Archaeologies team, UMR 7041 ArScAn, University of Paris 1 Panthéon-Sorbonne

PhD Student Representative, Doctoral School ED 112, University of Paris 1 Panthéon-Sorbonne

CONFERENCE ORGANIZATION

Integrating ZooMS and zooarchaeology (IZAZ): Methodological advances and novel applications. (2024), Collège de France, Paris, France.

PRESENTATIONS

INTERNATIONAL CONFERENCES

A. Artizzu. (2025), « Veau, Mouton et Parchemin: 400 archives pour caractériser l'exploitation animale à l'Abbaye de Morimond (XII^e-XIII^e siècles) » *Les cisterciens et l'exploitation des ressources XII^e-XVIII^e siècles*, Amiens, France.

A. Artizzu, A. Binois, C. Petit, B. Rouzeau, M. Collins. (2023) « Analyses protéomiques des archives de l'abbaye de Morimond (XII^e - XVe s.) : apport de la technique de l'eZooMS sur l'étude du parchemin. » *XXIV^e colloque du GMPCA : Archéométrie 2023*, GMPCA, Nice, France.

A. Binois, A. Artizzu, L. Ther, B. Rouzeau. (2022) « The animal economies of a Cistercian abbey: New insights on food and parchment production in Morimond Abbey (Haute-Marne, France) from ZooMS and zooarchaeology » *1st ICAZ Medieval Period Group Meeting*, Bergen, Norway

WORKSHOPS

A. Artizzu, A. Binois, B. Rouzeau, M. Collins. (2024), « Parchments & Bones: Combined contributions of eZooMS and Zooarchaeology to the study of Medieval Morimond Abbey (Haute-Marne, France) » IZAZ, Collège de France, Paris, France.

A. Artizzu. (2024), « De l'archive au laboratoire : le cas des parchemins de l'abbaye de Morimond » Journée d'étude *Recherches actuelles sur l'histoire de l'ordre cistercien en France*, Collège des Bernardins, Paris, France.

A. Binois, A. Artizzu. (2023), « L'exploitation des ressources animales à l'abbaye de Morimond (XII^e-XVe siècles) : contribution des approches archéozoologiques et biomoléculaires (ZooMS) » Journée d'étude *Les cisterciens et l'exploitation des ressources*, Paris, France.

A. Artizzu. (2023) « Proteomic analysis of the archives of Morimond Abbey (12th-15th c.): changes over time in parchment species use » *Le parchemin: du troupeau au manuscrit*, Institut national d'histoire de l'art (INHA), Paris, France.

CONFERENCES AND TALKS

A. Artizzu, A. Binois, B. Rouzeau. (2024) « Les analyses protéomiques des archives de l'abbaye de Morimond (XII^e - XVe s.): apport de la technique de l'eZooMS sur l'étude du parchemin, choix techniques et implications économique sur les pratiques de l'élevage. » *Université Paris 8 et CNRS*, Paris, France.

A. Artizzu. (2023) « De l'animal au parchemin : L'évolution des espèces dans les archives de l'abbaye de Morimond (XII^e - XVe s.) » *Archives départementales de la Haute-Marne*, Chaumont, France

A. Artizzu. (2023) « Proteomic analysis of the archives of Morimond Abbey (12th-15th c.): temporal evolution of the use of parchment species » *The Craft of Parchment*, Klosterneuburg, Austria.

A. Binois, A. Artizzu. (2022) « Du troupeau au parchemin, du parchemin au troupeau » Journée « Travail et artisanat des matières d'origine animale au Moyen Âge et à l'époque moderne » *Jeudis d'Archéologie Médiévale et Moderne (JAMM)*, Paris, France

CERTIFICATIONS

Introduction to Ancient Metagenomics (40h / 1.5 ECTS)

August 2025

SPAAM & Max Planck–Harvard Center (MHAAM) with Friedrich-Schiller-Universität Jena

EXPERIMENTAL SKILLS

- Chromatographic techniques: HPLC, GC, CCM
- Spectrometries : MS, XRF, SAA, IR

COMPUTER SKILLS

- Software S.I.G: QGIS, FileMaker Pro, MySQL
- Drawing and others: Adobe Lightroom, Photoshop CC, ChemBioDraw
- Bibliographical research: Mendeley, Zotero, PubChem, SciFinder, Réaxys, Protein Data Bank
- Analytical sciences : mMass, Mestrenova, logiciel Agilent
- Programming language: R, LaTeX, Python

LANGUAGES

- English: Fluent (TOEIC : 925/990)
- Spanish: Intermediate (CLES 2)
- Latin: notions