Workshop Schedule — June 30 – July 5, 2025

Time	Monday June 30, 2025	Tuesday July 1, 2025	Wednesday July 2, 2025	Thursday July 3, 2025	Friday July 4, 2025	Saturday July 5, 2025
Location	Amphi B5 PABA	Amphi B5 PABA **Lectures Morphometrics**	Amphi B5 PABA **Epigraphy**	Room Archéovision — **Macroscale** / Imaging & Informatic rooms (B8) — **Morphometrics** / B2 R+4 — **Microscale** / UBM - J019 — **Epigraphy**	PC Room Archéovision — **Macroscale** / Imaging & Informatic rooms (B8) — **Morphometrics** / B2 R+4 — **Microscale** / UBM - J019 — **Epigraphy**	Meeting point: B8 at 8h15 departure by bus
8h15–8h30	Welcome / Registration					
8h30–8h45						
8h45–9h	Welcome Speech **A. Le Cabec**	**An Introduction to Morphometrics. From traditional to geometric morphometrics** - The concepts of shape & form - Landmarking and sample size - A discussion on ordination. **L. Courtenay**	**Digital approaches to Epigraphy**: Introduction - **Alberto Dalla Rosa**	Macroscale: **Point cloud and mesh manipulation** - crop, register, meshing, cuts - **K. Genuite** / Morphometrics: Practice - Data segmentation on Avizo - **A. Thibeault + Y.Heuzé (GROUPS)** / Microscale: Practice - **confocal microscopic acquisition L. Doyon + A. Queffelec** / Epigraphy: Data Representativity - **A. Dalla Rosa + N. Prévot**	Macroscale: **Dissemination: computed VS realtime** - video rendring and editing, game engine for VR - **L. Espinasse + F. Daniel** / Morphometrics: Practice - Morphometric analyses on R - **S. Bedecarrats + F. Santos** / Microscale: **Extract textural data; Data comparison with the ExOsTechBank.** (Licence DigitalSurf to be requested - participants must bring their PC and download R on it) - **L. Doyon** / Epigraphy: Spatial analysis of historical and epigraphic data - **C. Culioli + C. Coutelier (début à 9h)**	Fieldwork - La Chaise
9h–9h15	Keynote - **P. Bayle (PACEA)** From the field to the laboratory: 3D imaging in archaeological sciences					
9h15–9h30						
9h30–9h45	Open Science **A. Queffelec**					
9h45–10h						
10h–10h15	Epistemology of the Digital Revolution **M. Lequin**	Coffee Break	Coffee Break	Coffee Break (all rooms)	Coffee Break (all rooms)	Coffee Break
10h15–10h30						
10h30–10h45	Coffee Break	Coffee Break				
10h45–11h	Digitization in Archaeology: From the physical to the virtual object **A. Le Cabec + N. Vanderesse**	**A presentation on landmarks-free methods** - **L. Courtenay & N. Martin**	**Advanced statistical approaches to epigraphic data** - **Alberto Dalla Rosa + Pierre Guérin**	Macroscale: **3D to 2D with GIS** - Georeferencing, GIS, Raster, ortho-image - **K. Genuite** / Morphometrics: Continuation / Microscale: Continuation / Epigraphy: Continuation	Macroscale: Continuation + VR demo / Morphometrics: Continuation / Microscale: Continuation / Epigraphy: Continuation	Continuation
11h–11h15						
11h15–11h30						
11h30–11h45						
11h45–12h						
12h–13h30	Lunch for all	Lunch for all	Lunch for all	Lunch for all	Lunch for all	Lunch for all
Location (PM)	Amphi B5 PABA **Lectures Macroscale**	Amphi B5 PABA **Lectures Microscale**	Room Archéovision — **Macroscale** / Amphi B5 PABA — **Morphometrics** / PACEA microscopy + B2 R+4 salle de réunion — **Microscale** / Pierre Paris - Maison de l'archéologie — **Epigraphy**	Room Archéovision — **Macroscale** / Imaging & Informatic rooms (B8) — **Morphometrics** / B2 R+4 — **Microscale** / UBM - J019 — **Epigraphy**	PC Room Archéovision — **Macroscale** / Imaging & Informatic rooms (B8) — **Morphometrics** / B2 R+4 — **Microscale** / UBM - J019 — **Epigraphy**	
14h–14h15	**3D Macro archaeology. Part 1 - Landscape archaeology** - large scale 3D digitization - **K. Genuite**	**What is 3D surface analysis?** What tools are used to investigate the subject? When and why is it relevant to undertake such study? **L. Doyon + A. Queffelec**	Macroscale: **Points, mesh, raster and textures: theory** - computer representations, lighting, textures, geographic projections, and rasters - **B. Dutailly + K. Genuite** / Morphometrics: **An overview of some concrete dilemmas to tackle in geometric morphometrics.** Fourrier analyses **(L. Courtenay)** - The study of asymmetry **(Y. Heuzé)** - The study of developmental heterochronies **(A. Souron)** / Microscale: **Concrete applications at PACEA** + demo with the confocal microscope rooms **L. Doyon + A. Queffelec** / Epigraphy: **AI for automatic treatement of epigraphic texts. A. Dalla Rosa, Nathalie Prévôt, Pierre Guérin**	Macroscale: **Lasergrammetry - Practice - K. Genuite** / Morphometrics: Practice - 2D Landmarking on TPSdig - **A. Souron + L. Courtenay** / Microscale: **Cleaning the acquisitions; Creating a template; Applying a template on multiple acquisition** (Licence DigitalSurf to be requested - participants must bring their PC) - **L. Doyon** / Epigraphy: Practice - 3D modelling for Epigraphic texts - **Hernán González Bordas**	Macroscale: **3D realtime for dissemination + SIR3D** - Practice on Unity 3D and 3D Database demo - **B. Dutailly** / Morphometrics: Continuation / Microscale: **Making figures and table ready for publication**; Writing the "Methods" and "Results" section. (Participants must download R on their PC) **L. Doyon** / Epigraphy: Continuation	Fieldwork - La Chaise
14h15–14h30						
14h30–14h45						
14h45–15h						
15h–15h15			Macroscale: **Archaeological 3D reconstruction** - 3D CAD for buildings - **M. Rouca** / Morphometrics: Coffee Break	Morphometrics: Coffee Break	Macroscale: Coffee Break	
15h15–15h30					Microscale: Coffee Break	
15h30–15h45	Coffee Break		Morphometrics: Coffee Break / Microscale: Coffee Break / Epigraphy: Coffee Break	Macroscale / Morphometrics / Microscale / Epigraphy: Coffee Break	Morphometrics / Microscale / Epigraphy: Coffee Break	
15h45–16h						
16h–16h15	**3D Macro archaeology. Part 2 - Deep in 3D acquisition and modeling.** Digitization, 3D modelling, practical approach - **M. Rouca**	Photogrammetry - Practice - **K. Genuite + D. Lopez-Onaindia** / Visit of the micro-CT scanner at PLACAMAT (2h15 max) **N. Vanderesse + A. Le Cabec** 2 groups minimum (10 pers. max), 15 mins signature/ group	Macroscale: (continuation) / Morphometrics: Continuation / Microscale: Continuation / Epigraphy: Continuation	Macroscale: (continuation) / Morphometrics: Practice - 3D Landmarking on Avizo & 3DSlicer - **A. Thibeault + Y.Heuzé (GROUPS)** / Microscale: Continuation / Epigraphy: Continuation	Macroscale: **Data management in archaeology** - All 3D ressources together - **D. Lopez-Onaindia + K. Genuite** / Morphometrics: Practice - Morphometric analyses on MorphoJ - **Y. Heuzé** / Microscale: Continuation / Epigraphy: Continuation	
16h15–16h30						
16h30–16h45						
16h45–17h						
17h15–18h	Keynote Speaker: **Paul O'Higgins (UK)** Using geometric morphometrics to investigate organismal form and function — Amphi B5 PABA		Keynote Speaker: **Nicolas Zwyns (France, PACEA)** The Paleolithic of Mongolia in the digital era — Odéon Archépôle	Keynote Speaker: **Gildas Merceron (France, IPHEP)** Dental Microwear Texture Analysis on Teeth: State of the Art and New Challenges — Amphi B5 PABA	Keynote Speaker: **Petra Hermankova (Aarhus)** From Stone to Computer: Challenges and Perspectives of Digital Epigraphy — Odéon Archépôle	Return by bus
18h–19h	Cocktail 1		Diner in town (TBD) for teachers, keynote speakers, organizers, lab directors		Cocktail 2	