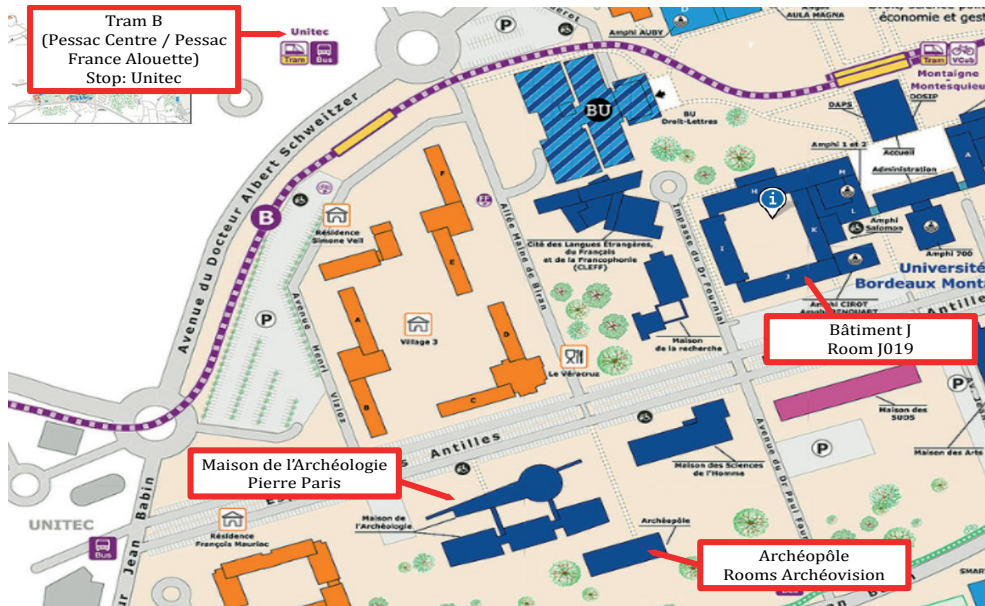
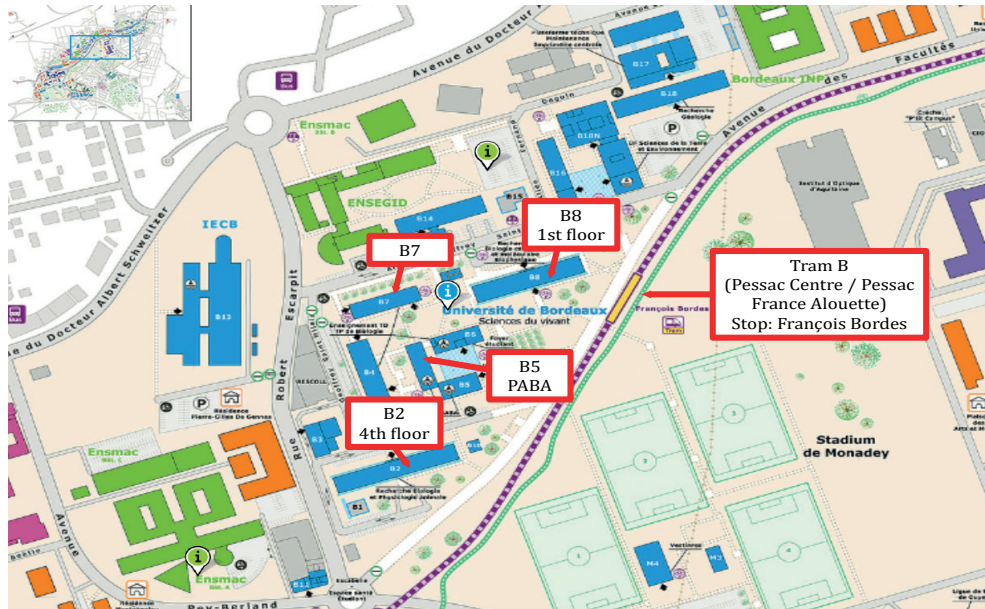


Meeting Venues



Summer School



Bordeaux, June 29-July 4, 2026



List of Speakers

Vincent BAILLET (Archéosciences Bordeaux, Postdoctoral Fellow)
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Keynote Speakers

Markus BASTIR (Museo Nacional de Ciencias Naturales CSIC, Spain, Professor)
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Andreu OLLÉ (IPHES-CERCA, Spain, Researcher)
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Nadia SPANG BOVEY (University of Lausanne, Switzerland, Researcher)
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Organisation

Path leaders

3D Archeology at a macroscopic scale (site, object): «Macroscale»

Bruno DUTAILLY (PACEA/Archéosciences Bordeaux, CNRS Research Engineer)
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Geometric Morphometrics: «Morphometrics»

Frédéric SANTOS (PACEA, CNRS Project Engineer)
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3D Archeology at a microscopic scale (surfaces): «Microscale»

Alain QUEFFELEC (PACEA, CNRS Research Engineer)
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Monday, June 29, 2026

Core Curriculum

Introduction - Location: Building B5, Amphitheater PABA	
8h15-8h45	Welcome/Registration
8h45-9h00	Welcome Speech [A. Le Cabec]
9h00-9h30	Introductory Lecture: 3D imaging [P. Bayle]
10h00-10h30	Round table
10h30-10h45	Coffee Break
10h45-12h45	Introductory Keynote [A. Le Cabec-N. Vanderesse]
12h45-14h00	Lunch Break
14h-14h45	Open Science [A. Queffelec]
14h45-15h30	Epistemology of the Digital Revolution [M. Lequin]
15h30-16h00	Coffee Break
16h00-18h00	Lectures on Artificial Intelligence [L. Courtenay , N. Vanderesse , P. Guérin , B. Dutailly]
18h00-19h00	Cocktail

Tuesday, June 30, 2026

Core Curriculum

Lect. Macroscale - Location: Building B5, Amphitheater PABA	
8h30-10h30	Computer graphics - from pixels to 3D rendering [B. Dutailly]
10h30-11h00	Coffee Break
11h00-12h00	Continuation
12h00-13h30	Lunch Break
Lect. Microscale - Location: Building B5, Amphitheater PABA	
13h30-15h45	What is 3D surface analysis? [A. Queffelec-A. Souron]
15h45-16h15	Coffee Break
16h15-16h30	Mahr Presentation [F.Z. Aamer]
16h30-18h00	Visit of the micro-CT scanner at PLACAMAT [N. Vanderesse-A. Le Cabec]

Wednesday, July 1, 2026

Core Curriculum + Path applications

Lect. Morphometrics - Location: Building B5, Amphitheater PABA			
8h30-10h00	An Introduction to Morphometrics [L. Courtenay-L. Holbrecht]		
10h00-10h30	Coffee Break		
10h30-12h00	Fourier analyses [L. Courtenay]		
12h00-12h10	Group Photo in front of B8		
12h10-13h30	Lunch Break		
Location	Archeovision	Amphi B5 PABA	B2
Path appl.	Macroscale	Morpho.	Microscale
13h30-15h30	Laser scan [I. Intxaurbe]	An overview dilemmas to tackle in geo. morpho. [A. Sourbé- T. Colard- Y. Heuzé -A. Souron]	Concrete appl. at PACEA [L. Courtenay- A. Queffelec]
15h30-16h00	Coffee Break		
16h00-17h00	Continuation		
Keynote - Location: Building B5, Amphitheater PABA			
17h15-18h00	Facing the study of use-wear and residues on stone tools through a multi-technique approach [A. Ollé]		

Thursday, July 2, 2026

Practicals

Location	Archeovision	B16 R+1 Salle 11	B2
Path appl.	Macroscale	Morpho.	Microscale
8h30-10h00	Photogram. practice [N. Zwyns]	Data segment. 3Dslicer [A. Thibeault- A. Sourbé]	Confocal microscopic acquisition [R. Hanon- A. Queffelec]
10h00-10h30	Coffee Break		
	Continuation		
12h00-13h30	Lunch Break		
13h30-15h30	3D modeling [M. Rouca- V. Baillet]	2D landmarking TPSdig [A. Souron- L. Holbrecht]	Cleaning acquisitions [R. Hanon- A. Queffelec]
15h30-16h00	Coffee Break		
16h00-17h00	Color sampling [A. Mounier- S. Petitcolas]	General intro to R [C. Lauer- F. Santos]	Continuation
Keynote- Location: Building B5, Amphitheater PABA			
17h15-18h00	Reconstructing the Past: 3D Geometric Morphometrics and Virtual Anatomy in Human Evolution [M. Bastir]		

Friday, July 3, 2026

Practicals

Location	Archeovision	B16 R+1 Salle 11	B2	
Path appl.	Macroscale	Morpho.	Microscale	
8h30-10h00	3D modeling for architectural restitution [V. Baillet-M. Rouca]	Morpho. analyses R [C. Lauer -F. Santos]	Extract textural data [R. Hanon-A. Queffelec]	
10h00-10h30	Coffee Break			
	Continuation			
12h00-13h30	Lunch Break			
13h30-15h30	Practice 3DRIS [B. Dutailly-V. Baillet]	Continuation	Making fig.& tables for publication [R. Hanon-A. Queffelec]	
		Morpho. analyses Morpho) [Y. Heuzé]		
15h30-16h00	Coffee Break			
16h00-17h00	Continuation			
Keynote- Location: Odéon, Archéopôle				
17h15-18h00	Preservation of 3D Models and Data on the Long Term: Why and How to Mitigate the Risks of Technological Obsolescence [N. Spang Bovey]			
18h00-19h00	Cocktail			

Saturday July 4, 2026

Fieldtrip

La Roche-à-Pierrot, at Saint-Césaire



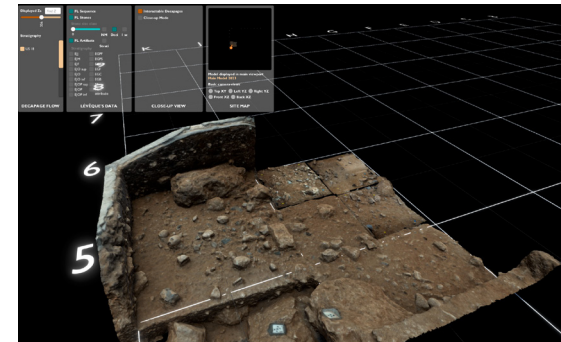
Meeting point: Allée Geoffroy Saint-Hilaire, in front of the B8 building, on the side of the parking lot.

Departure (bus): 8h

The Roche-à-Pierrot site in Saint-Césaire (Charente-Maritime) has yielded an exceptional sequence of nearly 30,000 years of human occupation, documenting the transition period between the last Neanderthals and the first *Homo sapiens* in Europe. A succession of archaeological levels dating back to the Middle Paleolithic (Mousterian) and Late Paleolithic (Chatelperronian and Aurignacian) were excavated here in 1976 by François Lévêque (French Ministry of Culture; Levêque et al., 1993). With the discovery in 1979 of a relatively complete Neanderthal skeleton in a level then attributed to the Chatelperronian, the La Roche-à-Pierrot site has since represented a major archaeological sequence in western Eurasia, fuelling debate on the processes by which the last Neanderthals were replaced by the first *Homo sapiens* populations arriving in Europe between 50 and 40,000 years ago.

Ongoing international and multidisciplinary research is now re-examining the site using cutting-edge digital and geoarchaeological methods.

The field excursion to Saint-Césaire, the highlight of the Summer School, will offer participants a rare opportunity to engage directly with an active research site and explore how digital archaeology reshapes our understanding of human prehistory.



Saint-Césaire (Charente-Maritime, France)
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