

# Summer School

DIGITAL  
ARCHAEOLOGY

Bordeaux, July 1-7, 2024

## List of Speakers

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### Keynote Speakers

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# Organisation

## Path leaders

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

Kim GENUITE (PACEA, GPR Postdoctoral Fellow)  
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### Geometric Morphometrics: «Morphometrics»:

Floriane REMY (PACEA, GPR Postdoctoral Fellow)  
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### 3D Archeology at a microscopic scale (surfaces): «Microscale»:

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### Networks in Archaeology: «Networks»:

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# Monday, July 1, 2024

## Core Curriculum

Introduction - Location: Building B5, Amphitheater PABA	
8h15-8h45	Welcome/Registration
8h45-9h00	Welcome Speech [ <i>A. Le Cabec</i> ]
9h00-9h30	Introductory Lecture: 3D imaging [ <i>P. Bayle</i> ]
9h30-10h30	Open Science [ <i>A. Queffelec</i> ]
10h30-10h45	Coffee Break
10h45-12h45	Introductory Keynote [ <i>A. Le Cabec-N. Vanderesse</i> ]
12h45-14h00	Lunch Break
Lect. Macroscale - Location: Building B5, Amphitheater PABA	
14h-15h30	From XYZ coordinates to landscapes [ <i>K. Genuite</i> ]
15h30-16h00	Coffee Break
16h00-17h00	Lasergrammetry and photogrammetry: theory and fieldwork acquisition [ <i>K. Genuite-V. Baillet</i> ]
17h00-18h00	Keynote: 3D lasergrammetry and caves art in the Gorges de l'Ardèche [ <i>S. Jaillet</i> ]
18h00-19h00	Cocktail

## Tuesday, July 2, 2024

### Core Curriculum

Lect. Morphometrics - Location: Building B5, Amphitheater PABA	
8h30-10h30	An Introduction to Morphometrics [ <i>L. Courtenay</i> ]
10h30-11h00	Coffee Break
11h00-12h00	A presentation on landmarks-free methods [ <i>A. Beaudet</i> ]
12h00-13h30	Lunch Break
Lect. Microscale - Location: Building B5, Amphitheater PABA	
13h30-16h30	What is 3D surface analysis? [ <i>L. Doyon-A. Queffelec</i> ]
16h30-18h00	Visit of the micro-CT scanner at PLACAMAT [ <i>N. Vanderesse-A. Le Cabec</i> ]

## Wednesday, July 3, 2024

### Core Curriculum+Path applications

Lect. Networks - Location: Building B5, Amphitheater PABA						
8h30-10h00	Networks in Archaeology: Introduction [ <i>C. Filet</i> ]					
10h00-10h30	Coffee Break					
10h30-12h00	Using statistics to evaluate the representativity of archaeological data corpus [ <i>C. Filet-A. Dalla Rosa</i> ]					
12h00-13h30	Lunch Break					
Location	Palais Gallien Archeovision	Amphi B5 PABA	B2	Higounet		
Path appl.	Macroscale	Morpho.	Microscale	Networks		
13h30-15h30	Demo acquis. with the terrestrial LiDAR [ <i>K. Genuite-V. Baillet</i> ]	An overview dilemmas to tackle in geo. morpho. [ <i>A. Souron-L. Courtenay-Y. Heuzé</i> ]	Concrete appl. at PACEA [ <i>L. Doyon-A. Queffelec</i> ]	Geomatics, topography, networks [ <i>C. Culioli C. Coutelier</i> ]		
15h00-15h30				Coffee Break		
15h30-16h00				Coffee Break		Networks in ABM
16h00-17h00				Continuation		[ <i>D. Kiosak</i> ]
Keynote - Location: Building B5, Amphitheater PABA						
17h00-18h00	Morphometric studies of modularity and integration: some serious caveats [ <i>C. Klingenberg</i> ]					



# Thursday, July 4, 2024

## Practicals

Location	Archeovision	B8	B2	J019
Path appl.	Macroscale	Morpho.	Microscale	Networks
8h30-10h00	Photogramm. acquisitions, model reconstruct. [V. Baillet]	Data segment. Avizo 3Dslicer [A. Thibeault Y. Heuzé]	Confocal microscopic acquisition [L. Doyon-A. Queffelec]	Data representativity [A. Dalla Rosa -N. Prévôt]
10h00-10h30	Coffee Break			
	Continuation			
12h00-13h30	Lunch Break			
13h30-15h30	Cleaning & editing a LIDAR acquis. [K. Genuite]	2D landmarking TPSdig [A. Souron-L. Courtenay]	Cleaning acquisitions [L. Doyon]	Graph theory archaeo. similarity [D. Pereira-C. Filet-D. Kiosak]
15h30-16h00	Coffee Break			
16h00-17h00	Continuation	3D landm. Avizo/3Dslic. [A. Thibeault -F. Rémy-Y. Heuzé]	Continuation	
Keynote- Location: Building B5, Amphitheater PABA				
17h00-18h00	Use-Wear Analysis and Experimentation to Study Past Hominin Tool Use [J. Marreiros]			

# Friday, July 5, 2024

## Practicals

Location	Archeovision	B8	B2	J019
Path appl.	Macroscale	Morpho.	Microscale	Networks
8h30-10h00	Managing archaeo. surveys [D. López Onaindia-K. Genuite]	Morpho. analyses R [F. Santos -F. Rémy]	Extract textural data ExOsTech Bank [L. Doyon]	Spatial networks GIS [C. Culioli-C. Coutelier]
10h00-10h30	Coffee Break			
	Continuation			
12h00-13h30	Lunch Break			
13h30-15h30	From 3D data to analysis & valorisation [K. Genuite-V. Baillet]	Continuation	Making fig.& tables for publication [L. Doyon]	Continuation
15h30-16h00	Coffee Break			
16h00-17h00	Continuation	Morpho. analyses Morpho] [Y. Heuzé]	Continuation	
Keynote- Location: Building B5, Amphitheater PABA				
17h00-18h00	Ancient pathways, theories of mobility and network analysis: a research agenda [P. Verhagen]			
18h00-19h00	Cocktail			

# Saturday July 6, 2024

## Fieldwork - Tourtoirac Rockshelter



Departure (Bus): 8h.

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

Located in the Avezère valley, the Tourtoirac rock shelter lies between the classic Perigordian and Charentian centres of prehistory. Recent research confirms prehistoric occupations during the Middle Gravettian, making it a must-see prehistoric site. The well-preserved faunal assemblage, dominated by reindeer, provides an abundant osseous industry as well as numerous human remains, several of which bearing traces of anthropogenic modifications that questions the mortuary practices of the Neanderthal groups who visited the rock shelter.

During the visit, participants will be divided into groups to learn 3D data acquisition methods on the field and to visit the adjacent karst formation.



Entrance of the Tourtoirac Rockshelter (Tourtoirac, Dordogne, France) © Luc Doyon

## Notes

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# Meeting Venues

