Artificial Intelligence in Archaeology, Cultural Heritage and Digital Humanities

Jaén, 2–3 December 2026

Organised by
3D-4CH Project and the University of Jaén Institute for Research in Iberian Archaeology

DAY 1 · Wednesday, 2 December 2026

16:30–16:45 *Institutional Opening*

16:45–17:45 **Juan Antonio Barceló Álvarez (Autonomous University of Barcelona)**
Artificial Intelligence and Archaeology: New Perspectives for Researching the Past

17:45–18:15 *Coffee Break*

Analysis, Interpretation and Reconstruction of the Past

18:15–19:05 **Héctor Aleix Orengo Romeu (Barcelona Supercomputing Center)**
Development and Integration of Artificial Intelligence-Based Models for Archaeological Research

19:05–19:55 **Miguel Carrero Pazos (University of Santiago de Compostela)**
Artificial Intelligence, LiDAR Data and Citizen Science for the Detection of Prehistoric Burial Mounds in Galicia: Advances from the DISCOVER Project

DAY 2 · Thursday, 3 December 2026

09:00–09:50 **Jesús Bermejo Tirado (Carlos III University of Madrid)**
TRAICES: Development of a Computer Vision Model for the Automatic Recognition and Recording of Use-Wear Traces on Archaeological Ceramics

09:50–10:40 **Marta Sánchez de la Torre, Jonás Alcaina Mateos (University of Barcelona)**
Tracing Human Mobility through Flint Using Machine Learning: The SPEGEOCHERT Project

10:40–11:10 *Coffee Break*

11:10–12:00 **Enrique Jiménez Sánchez (University of Munich)**
Artificial Intelligence for the Recovery and Reconstruction of Fragmented Ancient Texts

12:00–12:50 **Salvador Pardo Gordó (University of La Laguna)**
Artificial Intelligence for the Analysis and Interpretation of Material Culture: The Study of Recent Prehistoric Societies

12:50–13:40 **Pilar Chías, Nicolás Gutiérrez-Pérez, Isabel Artal-Sanz (University of Alcalá)**
Virtual Reconstruction and Artificial Intelligence: From Historical Evidence to Rendering

DAY 2 · Thursday, 3 December 2026 · Afternoon

Digital Infrastructures, Innovation and the Future of Computational Archaeology

16:30–17:20 **Arturo Montejo Ráez, Salud Jiménez Zafra (University of Jaén)**
Digital Infrastructures for the Humanities: Data, Knowledge and Identification of AI-Generated Content

17:20–18:10	**José Manuel Fuertes García, Inmaculada Cubero León, Alba Comino Comino, Rafael Segura Sánchez (Institute for Research in Iberian Archaeology, University of Jaén)** *The Computational Archaeology Laboratory as a Hub for Innovation and Research*
18:10–18:40	*Coffee Break*
18:40–19:40	*Round Table. Methodologies, Challenges and Future Perspectives in Spanish Computational Archaeology* *Participants: Workshop speakers* *Chair: Organising Committee*
19:40	*Closing*