

# DIGITAL ARCHAEOLOGY

1<sup>st</sup> Day | June 19 | 5:30 pm - 8:30 pm

## 3D GIS

During this workshop, the participants will be introduced to the basics of 3D GIS. Moreover, they will have the opportunity to work with the photo sets collected during the excavation season in "Trapeza Neo Rysio-Kardia" settlement in 2022. After completing the course, they will be able to create 3D models of the trenches with the technique of photogrammetry and analyze them in a GIS environment.

Course instructors *PhD Cand. Juan Aguilar | Vasiliki Lagari*

2<sup>nd</sup> Day | June 20 | 5:30 pm - 8:30 pm

## 3D documentation techniques (small/medium sized objects) Photogrammetry - Laser scanner - SLS scanning

This tutorial will offer an overview of 3D documentation but also an analysis of different technologies. The participants will have a hands-on experience and will create their own 3D models using the available equipment (cameras and scanners). A further discussion will take place regarding questions about data quality, time consumption and planning efficient workflows.

Course instructors *Dr Loes Opgenhaffen | Dr Charalambos Paraskeva  
PhD Cand. Juan Aguilar | Vasiliki Lagari*



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3<sup>rd</sup> Day | June 21 | 5:30 pm - 8:30 pm

## Lectures

You can find and download the Lecture program online at the workshop's webpage.

4<sup>th</sup> Day | June 22 | 5:30 pm - 8:30 pm

## Drawing digitization and 3D modeling of vessels

A fragmented vessel will be reconstructed in Blender. To reach this, a profile drawing of a complete vessel is needed. Open source software GigaMesh will be used to automatically extract a profile drawing of the 3D model and to export it to an SVG format together with a screenshot saved as PNG. This profile drawing, of the fragmented pot, is then opened in the open source program Inkscape, where it will be reconstructed by combining it with a profile drawing of a parallel. GigaMesh has many functionalities, but in this workshop only the basics of transforming and positioning the 3D artefact will be learned and the automatic extraction of a profile drawing. Inkscape will be used likewise: only the absolute basics of the program will be practiced in order to create a reconstructed section drawing. A similar approach will be also shown in Blender software where original and profile drawings will be combined in order to reconstruct the complete vessel.

Course instructors | *Dr Loes Opgenhaffen | Vasiliki Lagari*

5<sup>th</sup> Day | June 23 | 9:00 am

## Practice at the site of "Trapeza of Neo Rysio-Kardia"

Course instructors | *PhD Cand. Juan Aguilar | Vasiliki Lagari*

A certificate of attendance will be given to the participants.  
For online registration visit: [www.ihu.gr/ucips](http://www.ihu.gr/ucips)