Masterclass

Multimodal Engagements with Cultural Heritage
From Physical to Digital Interactions and Back

26-28 September 2016 An Foras Feasa, Maynooth University, Ireland





Overview

The aim of this 3-day Masterclass is to introduce participants to methods of creating and reusing cultural heritage artefacts at the intersections of digital and physical methodological approaches. Digitising material culture has become common practice for the preservation, interpretation, and presentation of cultural heritage in the Digital Age. Heritage institutions employ a diverse range of digital methods to open their collections to both research communities and the public as well as to augment conventional ways of engaging with cultural datasets and assemblages. The processes of retrieving and repurposing material culture are also fundamental in ensuring that digitised cultural heritage continues to be an ever thriving source inspiration both for research developments.

This Masterclass will span over three days providing participants with the theoretical background, best practices, and hands-on experience of A) Converting physical objects to digital and printed interactive 3D models, and B) Querying and visualising online cultural heritage through user interfaces.

In the first part of the Masterclass participants will learn how to i) capture cultural artefacts to create 3D models using Structure-from-Motion and laser scanning; ii) process, upload, and 3D print digital models; and iii) design simple interactions between digital and 3D printed objects. In the second part, using Europeana's repositories as an example, participants will be introduced to the principles of i) Semantic Web, ii) User Experience and iii) Interaction Design to delve into the new paradigms behind Online Cultural Heritage. Furthermore, participants will put these skills into action and learn how to provide engaging experiences on the Web through a wide range of user interfaces using physical and digital objects.

Preservation Interpretation Presentation

Digitising Artefacts
Creating 3D models
3D printing heritage objects
Querying online heritage
Visualising online heritage
Using tangible interfaces

Photogrammetry
Structure-from-Motion
Laser Scanning
3D Printing
User Experience
Semantic Web
Europeana
Interaction Design
User Interfaces

Participation

This MasterClass is aimed at people working in the fields of Digital Humanities and Digital Heritage who are interested in developing a hands-on understanding of multimodal interactions with cultural heritage datasets. No previous knowledge or skills are required. Participants should bring a laptop and pre-install the required software (guidelines and software licenses will be provided in advance).

Submissions are encouraged from a) scholars and early career researchers with projects that would benefit from knowledge and skills on physical and digital interactions with cultural heritage; b) museum professionals interested in exploring how digital technologies revolutionise conventional research and practice; c) Students and graduates of the Irish Digital Arts and Humanities PhD Programme, and d) Students in computer science and related disciplines who would like to explore the potential of digital technologies in cultural heritage.

The MasterClass will be limited to 15 participants. Preference will be given to applicants whose area of interest or expertise falls under one or more of the topics covered during the Masterclass. The event is open to Irish, European, and international applicants. Accommodation and transportation will be covered for all selected participants up to a maximum of €250 for participants based in the Republic of Ireland and up to €400 for participants outside Ireland. Meals for all days of the event will also be covered.

Application Process

Please send by the 17th of July to

komtantinos.papadopoulos@nuim.ie the following:

- a) 2-page CV
- b) A personal statement outlining the ways that this Masterclass could benefit your current work and research interests
- c) Justification of expenses (e.g. airfare, train tickets etc.)

Use "Multimodal Engagements with Cultural Heritage" as the subject line of your email. All applicants will be notified by the 31st July.

For any enquiries use the above email address.

Scholars and early career researchers

Museum professionals

Students and graduates of the Irish Digital Arts and Humanities (DAH) PhD Programme

Students in computer science and related disciplines

Bursaries

Deadline: 17th July

Instructors

Dr Konstantinos Papadopoulos, Lecturer in Digital Heritage, Maynooth University, Ireland Specialises in digital cultural heritage, 3D visualisation, simulation and analysis, and in theoretical approaches to archaeology, heritage, and computational methods. His research, teaching and publications to date are primarily related to the reconstruction of virtual worlds, formal three-dimensional analyses and interpretation of past built spaces, virtual and augmented reality, computational imaging and the theoretical dimension of such approaches.

Dr Angeliki Chrysanthi, Digital Humanities Research Associate, University of Sheffield, UK Specialises in digital cultural heritage, on topics related to visitor-heritage interaction, user-centred and participatory design of digital applications, collaborative digital storytelling and user evaluations in cultural heritage. Central to her research, teaching and publications are the new creative ways, enabled by the digital age, of co-constructing and sharing knowledge about the past; rendering the latter relevant to the present, and to individuals of different profiles.

Javier Pereda, PhD Candidate, Web Science Institute, University of Southampton, UK Specialises in Online Cultural Heritage, Human Information Interaction, Interaction Design, Marketing and Visual Communication. His research revolves around the disruptive qualities of the Web in the Cultural Heritage sector, particularly in areas such as knowledge distribution, user engagement, didactic design and tangible interaction.





