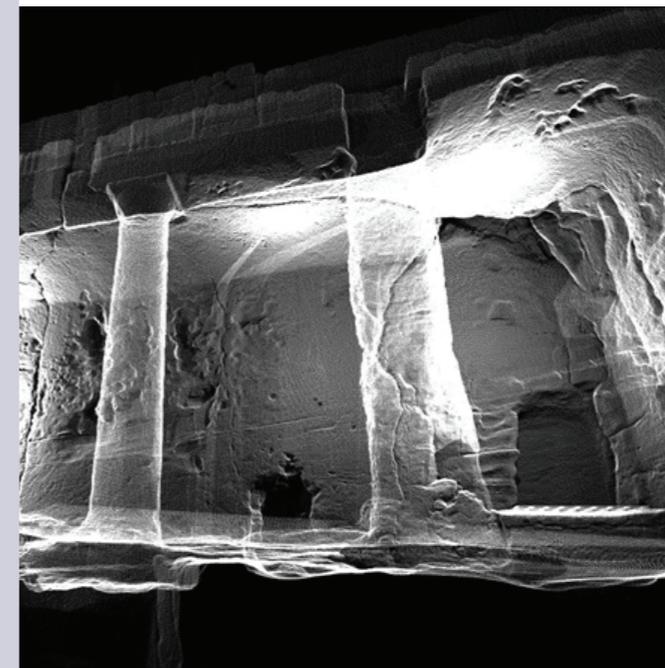
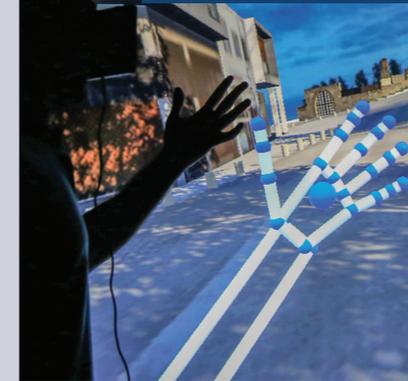


MSc Digital Cultural Heritage



Why study at The Cyprus Institute Graduate School?

EXCEPTIONAL FACULTY

Students have the opportunity to study alongside exceptional inter-disciplinary faculty and world-leading research teams. These faculty and researchers are attracted to the institute due to its intensive research focus and Cyprus's unique geographical position which provides access to an area abundant with research challenges and opportunities.

STATE-OF-THE-ART FACILITIES

The Cyprus Institute has the most advanced research infrastructure in Cyprus dedicated to cross-disciplinary research, with some of the facilities unique on a regional level. Our students have access to this infrastructure throughout the duration of their graduate research.

LOW STUDENT-FACULTY RATIO

The Graduate School maintains a small number of hand-picked students, which results in a low student-faculty ratio. This allows for a high degree of individual focus

in research, personal guidance, mentoring and career coaching resulting in successful placements.

MULTICULTURAL ENVIRONMENT

The School values the strengths that a multicultural environment provides so it has made it a priority to promote diversity, hence: 56% of our students and 68% of our faculty are international. English is the language of instruction and communication.

COMPETITIVE RESEARCH

Cyl is a champion in competitive research, attracting an impressive number of European projects and other competitive grants. In Horizon 2020, Cyl has attracted 12 times the European average in terms of funds per R&D FTE personnel (2014 to 2020). As a result, many of our students are offered financial aid through their participation in research teams, which strengthens their research experience alongside their theoretical education.

Collaborations with:



ADMISSION REQUIREMENTS

A BACHELOR'S DEGREE from a recognized accredited academic institution, in a relevant field and a keen interest in integrating digital methods in the Cultural Heritage practice.

Applicants must have a strong background in fields related to Cultural Heritage; either from the broader area of Humanities and Social Sciences (Archaeology, Art and History of Art, History, Museum Studies etc.), the field of Architecture and Applied Arts (historical structured environment, preservation and restoration of monuments applied arts in cultural heritage), or from the expanding field of Technology and Computer Science (multimedia, digital imaging and technical photography, computer graphics, computer vision, visualization, semantics and knowledge organization, databases and data management).

PROOF OF ENGLISH LANGUAGE PROFICIENCY

Check our website for requirements and waiver conditions.

FINANCIAL AID

Merit-based scholarships will be offered.

APPLICATION DEADLINE

Check our website for application deadlines.

CONTACT

Office of Graduate Studies
The Cyprus Institute
20 Konstantinou Kavafi Street
2121, Aglantzia | Nicosia, Cyprus
Tel. +357 22208614 | Website: www.cyi.ac.cy
Email: office.school@cyi.ac.cy



The Cyprus Institute Graduate School reserves the right to make any changes to the program upon approval by the Ministry of Education, Culture, Sport and Youth.



Why Digital Cultural Heritage?

This is a unique program in Cyprus and the region, which aims at providing students with new scientific knowledge to pursue a research and academic career. The program will also equip students with a wide range of practical and transferable hands-on skills that will offer them an advantage in the competitive job market of the future.

The broader field of Cultural Heritage, be it in the archaeological field, the museum environment, the public administration or the private sector, has become increasingly digital and data is produced at a higher pace than ever before.

The DCH MSc course will provide a unique interdisciplinary approach to solve critical challenges in the research, conservation, management and public engagement of Cultural Heritage, Archaeology, Art History and more broadly the Humanities, through digital methods and tools. Strong emphasis will be given to applied approaches, through in-depth examination of real-world case studies in collaboration with key Cultural Heritage institutions on the island.

Career Prospects for Program Graduates

Program alumni will be prepared to tackle a wide range of career opportunities in the Cultural Heritage private and public sectors, such as Digital Heritage experts in archaeology, curators in museums, innovators in the creative industries, educators of Cultural Heritage or archives management.

Research Infrastructure

The research infrastructure of Cyl, available to its students comprises of state-of-the-art facilities with high-tech laboratory instrumentation often unique to Cyprus, and in some cases, amongst the very few in the world. Access is provided to a wide range of fix and mobile laboratories covering a variety of disciplines, methods and techniques of investigation.

STARLAB

A unique in the region mobile laboratory for Heritage at Risk, providing a work environment and integrated portable instrumentation for in situ analyses covering non-destructive and non-invasive chemical / physical investigations, 3D documentation, geodesic and geo-physical surveying for archaeological sites, monuments and material culture objects and works of art.



APAC LABS

The Andreas Pittas Art Characterization Laboratories (APAC Labs) complements STARLAB, serving, among others, as its stationary lab, offering an interdisciplinary research pipeline based on a broad and multi-scale diagnostics approach, integrating inorganic / organic physico-chemical methods with reflectography, multi-spectral imaging, and surface 2D imaging/3D geometric characterization.

A further component is dedicated to the study of complex natural and social phenomena through scientific visualisation, simulation and modelling.



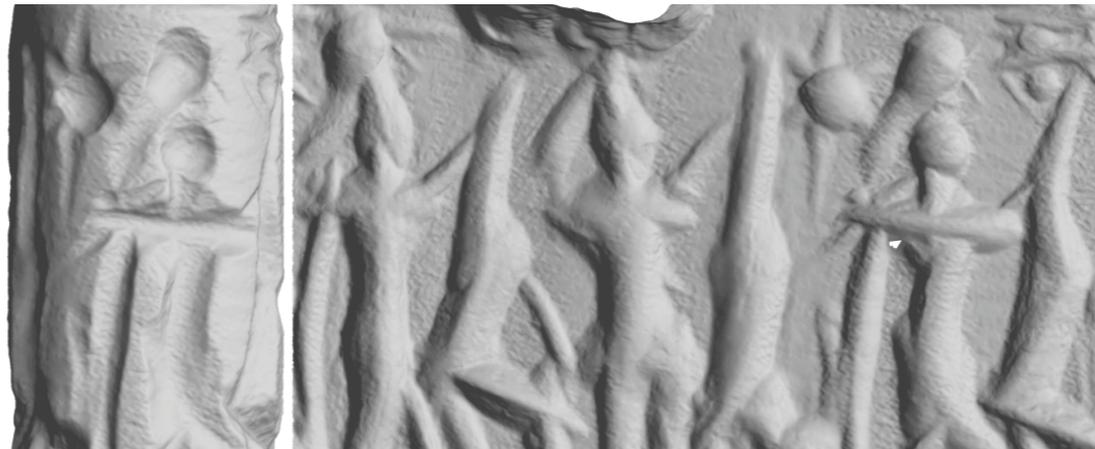
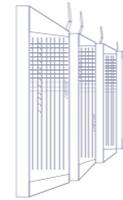
UNMANNED SYSTEMS RESEARCH LABORATORY (USRL)

USRL offers on-site facilities and related infrastructure for research, development, and testing of technologies related to UAV's (Unmanned Aerial Vehicles), providing high-quality airborne 3D documentation capabilities for a wide range of missions, such as documentation of sites and monuments, monitoring large areas to identify and alert on natural or human inflicted damages on Heritage assets.



SUPERCOMPUTER, HPCF

One of the largest High Performance Computing Facilities in the region, providing the needed resources for the computation of large-scale data analysis and simulation, such as 3D reconstructions and modelling. It also serves as the Institute's own cloud facility for data repository.



A 3D digital replica of a cylinder seal, digitally wrapped, found at the Late Bronze Age site of Hala Sultan Tekke in Cyprus (courtesy Peter Frischer, head of the Swedish Archaeological Mission at Hala Sultan Tekke).

PROGRAM STRUCTURE

The full name of the degree offered is Master of Science in Digital Cultural Heritage. This is a 90 ECTS credit, three term/one-year program. The language of instruction is English.

The first two terms will consist of taught courses (30 ECTS credits taken each term) and the third term will consist of work on a research project which must be submitted in the form of a research project and must be defended.

Students in the program will acquire the following skills:

- Theoretical and practical knowledge on digitally-driven scientific inquiries in Cultural Heritage
- Digital methods for the documentation, analysis and interpretation of Cultural Heritage assets and works of art
- Data science skills in the management of museum collections, public administration records and research data and their integration in large-scale repositories
- Applications of scientific visualization, simulation, modelling and machine-learning methods in research on Cultural Heritage
- Digital approaches to Heritage at Risk, with a particular focus on climate changes and human inflicted damages, and related resilience actions and strategies
- Integration of digital methods with Heritage Sciences, such as synchrotron-based investigations, spectroscopy, multi-spectral imaging and dendrochronology

COURSES

Mandatory Courses		ECTS
DCH 401	Arts, Humanities & Culture in the Digital Age	10
DCH 402	Fundamentals of Digital Cultural Heritage	10
DCH 403	Digital Innovation and Cultural Heritage	10
DCH 404	Scientific Reading & Advanced Academic Writing (Part A & Part B)	5+5
Elective Courses		
DCH 416	3D Documentation & Scientific Visualization and Cultural Heritage Research	5
DCH 417	The Data Life Cycle in Cultural Heritage	5
DCH 418	Modelling and Simulation of Social & Cultural Phenomena	5
DCH 419	Digital Curatorship & the Museum of the Future	5
DCH 421	Community Engagement & Heritage Education in a Digital World	5
DCH 422	Heritage Science in the Digital Age	5
DCH 423	Synchrotron Radiation (SR)-enabled Research in Heritage Sciences & Archaeology	5
DCH 424	Environmental & Climate Perspectives on Cultural Heritage	5

The language of instruction and communication of The Cyprus Institute (Cyl) is English.

Students who continue on to PhD studies at Cyl may have certain courses and research requirements waived.

PROGRAM COORDINATOR

Assoc Prof Sorin Hermon