DATA SCIENCE FOR CULTURAL HERITAGE MSc / 2019/20 ENTRY

www.ucl.ac.uk/graduate/
The Data Science for Cultural Heritage MSc (DSCH) provides an innovative opportunity to study data science through the exciting lens of cultural heritage. It is the first MSc to provide in-depth, practice-based data science training in a cultural heritage context, and aims to broaden the horizons of data science. The MSc will equip you to succeed as data scientist in diverse fields such as marketing, architecture, construction or media, as well as heritage and many more.

Degree summary

This programme pioneers a new way of teaching data science through application in a cross-disciplinary context. You will explore the complexities of acquisition, analysis and exploitation of the variety of data that is generated and used in heritage contexts. You will develop advanced data science skills, such as crowd sourced data science, machine learning or imaging data analysis.

From historic buildings and sites to museums, cultural heritage provides an exciting setting to learn and apply data science through real applications that combine science and engineering with social sciences and humanities.

This cross-disciplinary programme will give you a balance of advanced data science skills, active learning experience and valuable cross-cutting and transferrable skills, including communication and interdisciplinary collaboration, that are in high demand in many industries and sectors.

Developed and delivered by leading academics at the UCL Institute for Sustainable Heritage, in collaboration with UCL Department of Statistical Science, industry and major national and international heritage institutions.

The programme is taught using various strategies including lectures, tutorials, problem-based learning, project work, coursework and reports. You will get hands-on experience working with realistic data-sets and within heritage contexts, which will include field trips. Skills-based learning will be delivered through small-group exercises promoting peer-to-peer learning and learning through research.

Degree structure

Mode: Full-time: 1 year; Part-time: 2 years; Flexible: up to 5 years
Location: London, Bloomsbury
Students undertake modules to the value of 180 credits, comprising 120 taught credits and a 60 credit dissertation. The programme consists of four compulsory modules (75 credits), three optional modules (45 credits) and an individual research dissertation (60 credits).

A Postgraduate Diploma, four compulsory modules (75 credits), three optional modules (45 credits) is offered.

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

COMPULSORY MODULES
- Students will take three compulsory modules in the first term and a fourth one in the second term.
- Science and Engineering in Art, Heritage and Archaeology in Context
- Introduction to Statistical Data Science
- Heritage Data Mapping and Visualization
- Heritage Data Management

OPTIONAL MODULES
- Machine Learning for Heritage
- Heritage Imaging
- Crowd-sourced and Citizen Data for Cultural Heritga
- Heritage Building Information Modelling

DISSERTATION/REPORT
- Students are required to submit a 10,000-word dissertation. The topic of the dissertation, which is supervised by a member of BSEER staff, is selected by the student in agreement with the programme director. It can be taken from a wide range of subjects related to the main themes of the programme and may be selected to assist career development or because of its inherent interest. Collaboration with industry or the heritage sector for the selection of dissertation projects will be encouraged and facilitated whenever possible.

You will require your own laptop. Recommended specs can be provided on request.
Your career

Data science is in high demand in many and diverse industries. As a graduate of MSc DSCH you will be ideally placed to gain employment as data scientist, in particular in those sectors that foster interdisciplinarity and break barriers between technology and humanities or social sciences.

The programme has been developed with input from industry leaders from a diversity of sectors, including architecture, heritage, social media or digital technologies. You will gain exposure to real data challenges from these industries and will develop skill set in data science that will be highly transferable across these and many other sectors.

Employability

Cross-disciplinarity, an applied focus, an emphasis on innovation and critical thinking are the key qualities that will define the professional character of our graduates and will make you stand out from other data scientists.

You will develop advanced data science skills, as well as many transferrable skills such as coding, presentation and communication skills, working with different stakeholders, problem contextualization or public engagement techniques.
### Entry requirements

A minimum of a second-class UK Bachelor's degree from a UK university or an overseas qualification of an equivalent standard is required.

**English language proficiency level**

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at: [www.ucl.ac.uk/graduate/english-requirements](http://www.ucl.ac.uk/graduate/english-requirements)

### FEES AND FUNDING 2019/20 ENTRY

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<th>UK: £13,750 (FT), £6,840 (PT)</th>
<th>EU: £13,750 (FT), £6,840 (PT)</th>
<th>Overseas: £25,150 (FT), £12,510 (PT)</th>
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The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master's fee taken in an academic session.

Full details of funding opportunities can be found on the UCL Scholarships website: [www.ucl.ac.uk/scholarships](http://www.ucl.ac.uk/scholarships)

### APPLICATION DEADLINE

- All applicants: 26 July 2019
- Flexible/Modular: 30 August 2019

Details on how to apply are available on the website at: [www.ucl.ac.uk/graduate/apply](http://www.ucl.ac.uk/graduate/apply)

### CONTACT

Dr Josep Grau-Bove, Programme Director

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### EU referendum

For up-to-date information relating to specific key questions following the UK's decision to leave the EU, please refer to [www.ucl.ac.uk/ brexit](http://www.ucl.ac.uk/brexit)