



Course Information Sheet for entry in 2020-21

Health Data Science (EPSRC Centre for Doctoral Training)

About the course

The Oxford EPSRC CDT in Health Data Science offers opportunities for doctoral study in computational statistics, machine learning and data engineering within the context of ethically-responsible health research.

The Oxford EPSRC Centre for Doctoral Training (CDT) in Health Data Science offers a four-year doctoral programme, beginning with two terms of intensive training in core data science principles and techniques. This training - and subsequent research supervision - is provided by leading academics from the departments of Computer Science, Statistics, Engineering Science, Medicine and Population Health.

The first term addresses fundamentals of data science: ethics and data governance, computational statistics, machine learning and data engineering. The second term addresses the specific challenges of health data - including genomics, imaging and sensor data - and the methodologies needed for large-scale, data-driven health research. Each term ends with an extended, team-based data challenge, with engagement from industry and healthcare partners.

The Centre is based in the Oxford Big Data Institute. The Institute is an analytical hub for multi-disciplinary working at Oxford, connecting world-leading expertise in statistics, computer science and engineering to data-driven research in clinical medicine and population health. It is also home to the newly-established Wellcome Centre for Ethics and Humanities.

The Institute houses strong research groups in genomic medicine, image analysis, mobile and sensor data, infectious diseases, large-scale clinical trials, ethical aspects of healthcare delivery and the ethics of health research. Research groups in partner departments are addressing related challenges in data science: machine learning, knowledge representation, healthcare economics and cybersecurity.

Shortlisted applicants will be asked to select at least two possible research areas from a list of examples provided, and to be ready to discuss these briefly at interview. Successful applicants will undertake two short placements in the second half of the first year, before settling upon a research project for the subsequent three years. For many students, the placements and the project will be within the areas originally selected; however, other options will be available.

Each student will benefit from dual supervision for the duration of their research project, with at least one of the two supervisors having a strong background in core data science. Many students will wish to pursue a project in collaboration with a partner organisation: a technology company such as Elsevier, NVIDIA or Sensyne Health; a pharmaceutical company such as GSK or Novartis; or a research organisation such as the Blockchain Research Institute or the Cancer Research UK Oxford Centre.

Supervision

The allocation of graduate supervision is the responsibility of the Centre for Doctoral Training and it is not always possible to accommodate the preferences of incoming graduate students to work with a particular member of staff.

Changes to courses

The University will seek to deliver this course in accordance with the description set out above. However, there may be situations in which it is desirable or necessary for the University to make changes in course provision, either before or after registration. For further information, please see the University's Terms and Conditions.

Expected length of course

Mode of study	Full Time Only
Expected length	4 years

Costs

Annual fees for entry in 2020-21

Fee status	Annual Course fees
Home/EU (including Islands)	£7,970
Overseas	£26,405

Course fees are payable each year, for the duration of your fee liability (your fee liability is the length of time for which you are required to pay course fees). For courses lasting longer than one year, please be aware that fees will usually increase annually. Information about how much fees and other costs may increase is set out in the University's Terms and Conditions.

Course fees cover your teaching as well as other academic services and facilities provided to support your studies. Unless specified in the additional cost information (below), course fees do not cover your accommodation, residential costs or other living costs. They also don't cover any additional costs and charges that are outlined in the additional cost information.

Graduate students who have reached the end of their standard period of fee liability may be required to pay a termly University and/or a college continuation charge.

The University continuation charge, per term for entry in 2020-21 is £508, please be aware that this will increase annually. For part-time students, the termly charge will be half of the termly rate payable by full-time students.

If a college continuation charge applies (not applicable for non-matriculated courses) it is likely to be in the region of £100 to £400 per term. Please contact your college for more details.

Additional cost information

There are no compulsory elements of this course that entail additional costs beyond fees (or, after fee liability ends, continuation charges) and living costs. However, please note that, depending on your choice of research topic and the research required to complete it, you may incur additional expenses, such as travel expenses, research expenses, and field trips. You will need to meet these additional costs, although you may be able to apply for small grants from your department and/or college to help you cover some of these expenses.

Living costs

In addition to your course fees, you will need to ensure that you have adequate funds to support your living costs for the duration of your course.

The likely living costs for 2020-21 are published below. These costs are based on a single, full-time graduate student, with no dependants, living in Oxford. We provide the cost per month so you can multiply up by the number of months you expect to live in Oxford.

	Likely living costs for 1 month		Likely living costs for 9 months		Likely living costs for 12 months	
	Lower range	Upper range	Lower range	Upper range	Lower range	Upper range
Food	£270	£385	£2,430	£3,465	£3,240	£4,620
Accommodation	£630	£760	£5,670	£6,840	£7,560	£9,120
Personal items	£130	£245	£1,170	£2,205	£1,560	£2,940
Social activities	£45	£110	£405	£990	£540	£1,320
Study costs	£40	£95	£360	£855	£480	£1,140
Other	£20	£55	£180	£495	£240	£660
Total	£1,135	£1,650	£10,215	£14,850	£13,620	£19,800

When planning your finances for any future years of study at Oxford beyond 2020-21, you should allow for an estimated increase in living expenses of 3% each year.

More information about how these figures have been calculated is available at www.graduate.ox.ac.uk/livingcosts.