When studying Data Science at LSE, we not only discuss code and formulae, but also social sciences. With continuous interactive learning, you are able to grasp a range of programming languages and tools comfortably. You are also exposed to numerous opportunities to get in touch with and even work with some top cutting-edge technology companies. At LSE, you can explore a new world with data.

Yueran Pan

The MSc Data Science has taught me both the theoretical knowledge, and practical skills in order to build technical solutions to modern day problems involving data and its utility. Managing data is becoming ever more important in business and being able to effectively extract information from this growing pool of data is a highly employable skill. The LSE data science is fantastic at teaching you how to gain useful insights from data, and effectively communicate them to both experts and people with less technical backgrounds.

We are learning modern computational and statistical techniques that have only been developed in the last few years, putting us at the cutting edge of data science community, putting us in a fantastic place to move forward in our careers, be that professional or academic.

Michal Heydel

The Department of Statistics

The Department of Statistics at LSE is one of the oldest and most distinguished in the UK. It has a rich research portfolio covering core areas of statistical inference and real applications, particularly in the economic, financial, actuarial, social and industrial arenas. The close collaboration between departments, its London location and strong international partnerships are reflected in the research life of the Department of Statistics through the members of staff, PhD students, postdoctoral research fellows and the thriving visitor and seminar programmes.

Entry Requirements

Entry requirements to the MSc Data Science are a good BSc degree (at least upper second class honours) in a relevant discipline, including a substantial amount of mathematics. Well-qualified applicants who do not meet this requirement will be considered on merit.

 Overseas students should consult the section on equivalence of non-UK qualifications at the Graduate Admissions website below.

How to Apply

You should apply online here:

lse.ac.uk/study/graduate/home.aspx

You will also be given access to the Graduate Application Tracker via LSE for You, which will reflect the personal details held in the School’s database and the up-to-date status on your application.

How to contact us:

For further general information about the MSc programmes please contact the MSc Administrator at the Department of Statistics or visit the Departmental website:

lse.ac.uk/statistics/home.aspx

September 2016

January 2018

MSc DATA SCIENCE

Computational, statistical and machine learning approaches to data science
The MSc Data Science provides training in data science methods, with a focus on statistical and machine learning perspectives. You will receive a thorough grounding in theory, much of it at a high mathematical level, as well as learn about computing principles and gain hands-on experience in using state-of-the-art big data analytics systems, enabling you to apply advanced methods of data science and statistics to investigate real world questions.

Your core courses will provide you with comprehensive coverage of some fundamental aspects of data science, computational techniques and statistical analysis. The programme will combine traditional lectures with computer lab sessions, in which you will work on analysis of various datasets to complete hands-on exercises using various computing frameworks.

The core courses include: Computer Programming, Managing and Visualising Data, Data Analysis and Statistical Methods, and Machine Learning and Data Mining. You may also choose from a broad set of optional courses offered by the Department of Statistics, as well as the Department of Mathematics and the Department of Methodology.

The Capstone Project or dissertation will assess your ability to take on large-scale data-based problem solving, providing a realistic example of the challenges faced in data science settings by the kinds of organisations for which the MSc programme provides natural training.

For more information, please see our website: lse.ac.uk/Statistics/Study/MSc-programmes/MSc-Data-Science

Our taught postgraduate courses are based around lectures, with problem classes and computer workshops. Some courses are assessed by a two-hour exam and some contain an element of coursework. A small number of courses are evaluated by continuous assessment.

Graduate Careers

Data scientists are much in demand across industry, including a variety of Internet companies, marketers, banks, investment management, and other financial companies.

Data scientist positions involve a wide range of responsibilities; such as conducting exploratory data analysis, applying statistical methodologies, deriving business insights from data, partnering with company executives, product and engineering teams to solve problems, identify trends and opportunities, inform, influence, support, and execute product decisions and launches.

The MSc in Data Science aims to prepare candidates for a wide range of data science positions by equipping them with strong foundations in statistical modeling and inference methodologies, predictive analytics, hands-on experience in working with state-of-the-art computation tools and platforms, and experience in solving real-world data science questions.

The Student Experience 2017/18

The MSc Data Science course has been a fantastic way to improve both my coding aptitude and statistical knowledge. I feel that in a world with increasing dependence on data and its applications this course has raised my employability hugely and has taught me extremely relevant and interesting content. The lecturers and fellow students have been extremely welcoming and friendly, making the experience fun, and giving me the opportunity to make friendships that will last well after the course has finished. On the whole it has been a fantastic choice for me to enrol in the Data Science course and would encourage anyone to give the course serious consideration when making the next step in their professional or academic careers.

Andrew Davidson

I’m currently studying in the MSc Data Science program in conjunction with the HEC Paris MBA, as part of the dual degree program. I’m particularly impressed with the inspiring lecturers who are very knowledgeable about the latest research in machine learning and other sophisticated statistical techniques for handling Big Data. We have the opportunity to collaborate with an industry partner to work on a capstone project by applying all these statistical tools to a real life dataset, such as modelling customer loyalty for an airline. On the social side, a particular highlight would be the weekend retreat at the Cumberland Lodge with our fellow classmates and staff, with a visit to Windsor Castle and catching a glimpse of the Queen!

Milton Lim

The rich variety in content differentiates this course as a uniquely high-quality, fully engaging learning experience. At LSE, the personal interaction I have had with the professor and other participants has been the best part. It has been informative, transformational, and rejuvenating!

Malika Malik