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Nottingham

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MSc Statistics

Study the specific techniques and skills suitable for a professional career in statistics

nottingham.ac.uk/mathematics/masters



Study a
modern advanced
curriculum



Course is accredited
by the Royal
Statistical Society

Benefit from
expert teaching
at a research-led
university



Provides solid basis
for professional or
research career





Develop techniques and skills for a career in statistics or research

Overview

Accredited by the Royal Statistical Society, the MSc Statistics offers a modern advanced curriculum which will enable you to broaden and deepen your understanding of the subject and its applications. The course will provide you with specific techniques and skills suitable for a professional career in statistics or as a solid basis for research in this area. The course is informed by the work carried out by the Statistics and Probability Research Group.

Content

Ranked within the top 10 nationally for research power and research quality, the School is one of the largest and strongest mathematics departments in the UK (Research Excellence Framework, 2014).

During this course you will:

- gain knowledge based on the work being carried out in the Statistics and Probability research group
- study an advanced and modern curriculum
- develop a deeper understanding of optional topics including linear models, Markov Chain Monte Carlo, the bootstrap and multivariate analysis
- acquire the necessary skills for a research career in statistics

Structure

The course is taught mostly through lectures, backed up with smaller seminar groups which are used to revisit more complex topics. The course is taken full-time over one year and is made up of compulsory and optional modules to give you the flexibility to study topics of interest.

There is also a substantial project that will allow you to develop your interest and expertise in a specific topic at the frontier of current research, and develop your skills in writing a full scientific report.

Modules

Modules are mainly delivered via lectures and/or problem classes and take place on University Park Campus during the autumn and spring semesters of the academic year. You must take 120 credits and modules include:

Compulsory:

- Fundamentals of Statistics (40 credits)

Optional modules include:

- Applied Statistical Modelling (20 credits)
- Applied Multivariate Statistics (20 credits)
- Computational Statistics (20 credits)
- Stochastic Financial Modelling (20 credits)
- Time Series and Forecasting (20 credits)
- Data Analysis and Modelling (20 credits)
- Statistical Machine Learning (20 credits)

Dissertation

The dissertation is worth 60 credits and is carried out during the summer. A substantial investigation will be carried out on a topic in statistics or probability. The study will be largely self-directed, although a supervisor will provide oversight and input where necessary.

The topic will be chosen by agreement between you and your supervisor. It is expected that most projects will contain an element of statistical computing.

Past projects include:

- Modelling complex computer models
- DNA shape analysis
- Statistical models for networks

Entry requirements

At least a lower second class honours (2:2) BSc degree (or international equivalent) in mathematics or a related subject with a substantial mathematical content. Some knowledge of probability and statistics would be helpful to start the course.

University of Nottingham has made every effort to ensure that the information in this leaflet was accurate when published. Please note, however, that the nature of the content means that it is subject to change from time to time, and you should therefore consider the information to be guiding rather than definitive.

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