

School of Mathematics

FACULTY OF MATHEMATICS AND PHYSICAL SCIENCES



UNIVERSITY OF LEEDS

Postgraduate study

Taught Masters and
PhD research



2 The School of Mathematics

School
of
Mathematics

For current information please visit our website at www.maths.leeds.ac.uk

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The School of Mathematics

The School is comprised of three departments, Applied Mathematics, Pure Mathematics and Statistics, each with an enviable reputation for research. Together they form one of the largest research schools of mathematicians in the UK, with around 65 academic staff, 20 postdoctoral fellows and 72 postgraduate students.

We are located at the centre of the campus, here at the University of Leeds, with our own teaching space, tutorial rooms and study areas, ranging from a relaxed seating area to a quiet reading room, as well as two computer clusters and dedicated office space for postgraduate students. We also have a well equipped Research Visitor Centre to support the needs of eminent academic staff from all over the world who spend significant periods of time at Leeds working on high-level collaborative research programmes.



Student Life

The School warmly welcomes postgraduate students onto a range of Masters courses and PhD programmes. We take pride in the calibre of our staff, in the quality of our teaching and in the successes of our students as they develop their career potential within a stimulating and supportive academic environment.

All students are encouraged to take part in the life of the School and to contribute to the range of academic and social activities available. Our students come from a wide range of nationalities and backgrounds which ensures a lively and exhilarating international environment in which to study.

All PhD students are provided with high quality office accommodation as well as access to state-of-the-art workstations with either a Linux or Windows platform. The University supports a wireless network and a Virtual Private Network (VPN) that allows students to connect when working off campus.

As a student you will also have access to specialised facilities for your research area. The University is a member of the White Rose Consortium, which gives the School access to the White Rose Grid, a research infrastructure providing massive parallel computing power. The School of Mathematics also has a video conferencing room that is devoted to teaching graduate students in mathematics across a network of 19 UK universities.

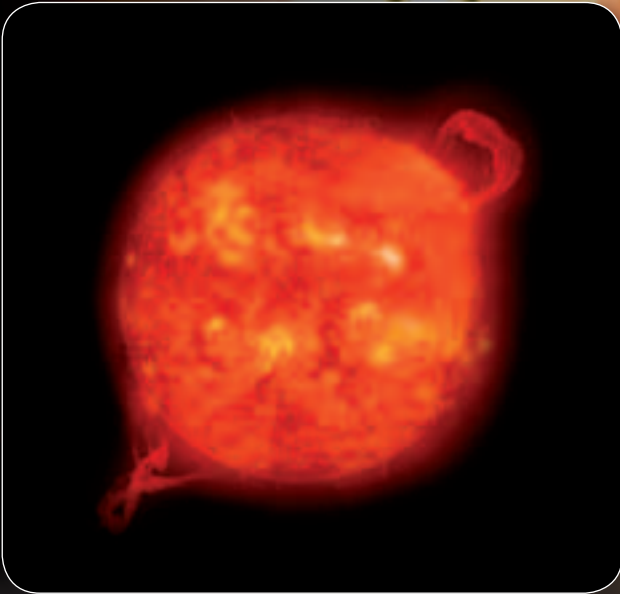
PhD students can take advantage of the broader generic skills training offered through the Faculty Graduate School, which provides courses to help develop research, interpersonal and life skills. The Graduate School also helps to promote the interaction between PhD students in different Schools/Departments and ensures best practice in the support and development of our postgraduate students.

Research

The quality of the School's research was recognised in the 2008 Research Assessment Exercise (RAE) where 95% of the work submitted was classed as 'world leading' or 'internationally recognised', placing it in the top ten mathematics departments in the UK in terms of research power, a measure which combines quality and volume of research, helping the University of Leeds to 14th place for research quality.

Our research is wide-ranging and increasingly interdisciplinary with academic staff actively collaborating with other departments, other universities, and with industry and public services in this country and all around the world. There are a number of areas of research which are recognised by the University as 'Peaks of Excellence', including Algebra and Logic, Astrophysical and Geophysical Fluid Dynamics and Polymers and Complex Fluids.





Casting light on the mechanisms at work in our nearest star, the Sun

Professor David Hughes from the School of Mathematics is involved in a project, together with other members of staff and five postdoctoral researchers with the aim of answering some fundamental questions about the complex nature of the Sun's magnetic field, which has been a puzzle for many years.

It is known that the Sun has a magnetic field which is regenerated by an internal 'dynamo', but there is little agreement about how this works. The Sun is basically a mass of conducting fluid that moves together but we don't know how it moves in the way it does. It has no wires, yet is still a great conductor. It has a dynamic, constantly regenerated, magnetic field.

Sunspots may provide some clues. Appearing in pairs, they have been observed for thousands of years and, for the last hundred years, it has been known that they are sites of strong magnetic fields. They are aligned roughly with the equator of the Sun and the pairs have opposite polarity. They last a matter of weeks and then disperse, but through a solar cycle, they emerge closer to the Sun's equator. The Sun also goes through its own cycles. The magnetic fields in the northern and southern hemispheres are of opposite polarities and about every eleven years they switch over. What's fascinating is that the number of sunspots changes with each cycle of the Sun. In some cycles there are fewer sunspots than in others. There is some historical evidence linking solar magnetic activity and our climate but this should not be confused with the causes of current global warming.

A critical question is why the Sun has a magnetic field at all and where it is generated. A lot is known about the Sun's magnetic field at its surface and in the atmosphere above it, but relatively little is known about the field in the solar interior. There are, roughly speaking, three zones in the Sun, the inner nuclear core where energy is generated, the radiative zone in the middle and the outer zone where convection occurs.

One of the most interesting advances in recent solar physics has been the discovery of the solar 'tachocline' region, a thin area where the convective and radiative zones meet, and over which the solar rotation varies sharply. The tachocline would seem to be a strong contender as the place in which magnetic fields are generated, since the varying rotation can 'wind up' the north-south magnetic field to generate an east-west field. However, the tricky part is closing the dynamo loop. It could be that the convective motions act to close the dynamo cycle, or it might be that the magnetic field is itself unstable and that this instability enables the Sun to close the dynamo loop in order for it continually to create these magnetic fields.

Much of the group's work involves difficult mathematical equations, and this is where it gets exciting for the academic team. There are a number of very complex equations which need to be solved and the big challenge is to solve these in simplified models that retain the underlying fundamental physics in order to explain the Sun's behaviour and magnetic field.

Taught Masters Courses

We offer five MSc courses on a full-time basis over 12 months. Each course starts with two semesters of taught modules, examined in January and June. There is then an intensive summer project where a chosen topic in mathematics is studied in depth.

- MSc Atmosphere-Ocean Dynamics
- MSc Mathematics
- MSc Mathematics and Computer Science
- MSc Statistics
- MSc Statistics with Applications to Finance

These programmes consist of both compulsory and optional modules which provide the opportunity to cover a range of mainstream and advanced topics and innovative methods, selected from the research interests of the School of Mathematics. The choice of modules is dependent on background, and subject to the agreement of the Course Co-ordinator.

Each of these courses provides a pathway to progress on to a wide range of appealing PhD topics and may be combined with a subsequent PhD programme (subject to entry requirements). Across statistics, pure and applied mathematics there is ample scope to pursue a varied range of research topics.

We also offer jointly with Leeds University Business School (LUBS) the following courses.

- MSc Financial Mathematics
- MSc Actuarial Finance

For these courses please make enquiries to:

Postgraduate Admissions Office
Leeds University Business School

E: masters@lubs.leeds.a.c.uk
Tel: +44 (0) 113 343 4908
Fax: +44 (0) 113 343 4355

Why study a Masters at Leeds?

- Research-led teaching delivered by experts in their field
- Wide choice of modules and options to specialise
- An international university with a first-class study environment
- Degrees which are recognised by employers around the world for their quality
- Numeracy is an attribute keenly sought after by employers
- Emergence of data mining and analysis means demand for statisticians is growing across a wide range of professions.
- Opportunities exist to pursue further research as a PhD student

On graduation you will have an excellent grounding for research in your chosen area of mathematics, or the necessary background to excel in industries which require mathematical skills.

There are career opportunities in a wide range of professions in the commercial, environmental, government and financial services sectors, charitable organisations, market research, medical and pharmaceutical organisations, computer and gaming industries, forensic and police investigation and teaching mathematics within higher education.



MSc Atmosphere-Ocean Dynamics

This course is designed for students from a mathematical background who wish to apply their skills to understanding the complex behaviour of Earth's atmosphere and oceans. This is an exciting interdisciplinary subject, of increasing importance to a society seeking to understand climate change.

Training is offered in both modern applied mathematics and atmosphere-ocean science, combining teaching resources from the School of Mathematics and the School of Earth and Environment. The latter are provided by members of the School's Institute for Climate and Atmospheric Science, part of the National Centre for Atmospheric Science.

Course Content

Topics are drawn from four broad areas:

- Applied mathematics: asymptotic methods, fluid dynamics, mathematical theory of waves and stability of flows.
- Numerical methods and computing: discretization of ordinary and partial differential equations, algorithms for linear algebra, direct use of numerical weather and climate models.
- Atmospheric dynamics: structure of the atmosphere, dynamics of weather systems and atmospheric waves.
- Ocean dynamics: the large-scale ocean circulation, surface waves and tides.

Course Structure

The course is made up of two parts, a research project and a set of taught modules. The research project is undertaken over the summer, under the supervision of a member of staff, and involves an in-depth investigation of a chosen subject in atmosphere-ocean dynamics. The taught modules involve lectures and some computer workshops. Beyond a compulsory core of atmosphere-ocean fluid dynamics, you may choose from a range of modules to suit your interests.



Example modules offered by the School of Mathematics:

- Mathematical Methods
- Numerical Methods
- Geophysical and Astrophysical Fluid Dynamics
- Hydrodynamic Stability
- Linear and Nonlinear Waves
- Nonlinear Dynamics

Example modules offered by the School of Earth and Environment:

- Atmosphere and Ocean Dynamics
- Atmosphere-Ocean Climate Change Processes
- Dynamics of Weather Systems
- Practical Weather Forecasting
- Computational Fluid Dynamics

Career Opportunities

You will be prepared for postgraduate research in applied mathematics or atmosphere-ocean science, or employment in the environmental sector. However, given the interdisciplinary nature of the programme, you will develop expertise and skills in a number of different areas, and will therefore be attractive to a wider range of employers.



MSc Mathematics

This programme provides a solid training in mainstream mathematics and will give you an insight into modern developments in mathematics.

It is designed to build on existing mathematical skills and allows students from a wide range of backgrounds to both broaden and deepen their understanding of their chosen branch of mathematics. The course allows specialisation in areas of pure mathematics, applied mathematics or statistics and offers the flexibility to cover a range of areas or to concentrate in one specific area.

The course is ideal for those who wish to take their studies of mathematics beyond the BSc level, for interest or to develop future employment opportunities. It also provides an excellent preparation for research for an MPhil or PhD. At Leeds we have a range of research opportunities available and in some cases you can progress to a PhD on the basis of a specified performance in the MSc.

Modules typically available include:

Algebra

Algebra at Leeds is concentrated on ring theory and algebraic geometry.

Functional Analysis

Two modules take you from BSc analysis through measure theory, Banach spaces and Banach algebras.

Logic

Members of the very strong Logic Group at Leeds give at least two modules, for example on Set Theory and Computability.

Differential Geometry 2

This module looks at further study of curves and surfaces, in particular, to understand what properties of curves and surfaces are intrinsic, extrinsic, local, or global, and to give some applications.

Advanced Quantum Mechanics

This module provides the basic theory, explaining how in quantum mechanics the states and observables of a single-particle system is described and how predictions are made about the probable outcomes of experiments.

Time Series

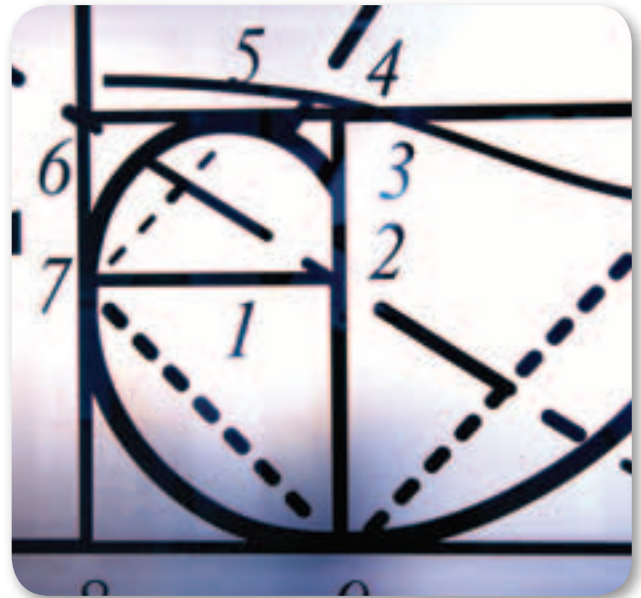
In time series, measurements are made at a succession of times, and it is the dependence between measurements taken at different times which is important. The module will concentrate on techniques for model identification, parameter estimation, diagnostic checking and forecasting.

Advanced Hydrodynamic Stability

This module provides an introduction to the idea of the instability of fluid flows. This is a very important concept in hydrodynamics. The ideas will be illustrated by looking in detail at three problems; the instability of shear flows, the instability of rotating fluids, and the instability of fluids due to convection.

Advanced Polymeric Fluids

Firstly it gives an introduction to the 'phenomenology' of the subject – what kind of things do these fluids do when they flow? Then, the module focuses on a particular class of fluids, those containing polymer molecules.



MSc Mathematics and Computer Science

This interdisciplinary Masters degree combines teaching and research from the School of Mathematics and the School of Computing. You will be introduced to sophisticated techniques at the forefront of mathematics and computer science.

The programme follows two main strands, based on the complementary research strengths of both Schools.

Algorithms and Complexity Theory

This concerns the efficiency of algorithms for solving computational problems, and identifies hierarchies of computational difficulty. This subject has applications in many areas, such as distributed computing, algorithmic tools to manage transport infrastructure, health informatics, artificial intelligence, and computational biology.

Numerical Methods & Parallel Computing

Many problems, in mathematics, physics, astrophysics and biology cannot be solved using analytical techniques and require the application of numerical algorithms for progress. The development and optimisation of these algorithms coupled to the recent increase in computing power via the availability of massively parallel machines has led to great advances in many fields of computational mathematics. This subject has applications in many areas, such as combustion, lubrication, atmospheric dispersion, river and harbour flows, and many more.

Course Content

You will study a selection of optional taught modules. It is advisable to choose a coherent group of modules, but you can mix from the two groups, and sometimes choose other modules (subject to approval). You will also undertake a substantial research project over the summer linked to the themes of the programme or on a topic of your choice.

Example modules related to Algorithms and Complexity Theory:

- Advanced Logic
- Advanced Set Theory
- Algorithm Design
- Coding Theory
- Combinatorics
- Complexity and Approximation
- Computability and Unsolvability
- Graph Theory
- Scheduling
- Statistical Computing
- Stochastic Financial Modelling

Example modules related to Numerical Methods:

- Advanced Distributed Systems
- Advanced Numerical Methods
- Computational Modelling
- Language
- Machine Learning
- Numerical Methods
- Problem Solving with Computers
- Scientific Computation
- Techniques for Knowledge Management
- Vision

Strong Links with Industry

In collaboration with both industrial and academic partners, our research has resulted in computational techniques, and software, that has been widely applied. Our industry links are extensive and include companies such as Google, Yahoo, Akamai, Microsoft, and Tracsis, as well as the NHS.

Career Opportunities

This MSc will provide you with both technical and transferable skills that are valued by industry. It will also provide you with an excellent background if you wish to embark on a PhD in mathematics or in computer science.



MSc Statistics

This is a flexible course that combines in-depth training in mainstream advanced statistical modelling with a broad range of specialisations, including financial mathematics, statistical bioinformatics, shape analysis and risk management.

The course will give you the chance to broaden your understanding of statistics and develop skills across a range of statistical techniques required for a career in statistics or further academic research.

Modules typically available include:

Statistical Computing

An introduction to methods of statistical computing essential for the applied statistician, with an emphasis on sampling-based methods such as Markov chain Monte Carlo.

Statistics and DNA

Modern biological experiments produce large data sets involving information related to DNA. This module gives the basic biological background before looking at a range of data types and methods to analyse them.

Statistical Theory

We often use statistical tests and estimators without fully exploring the theoretical basis for their use. Here, we look more deeply into the mathematics behind statistical inference and compare the two main approaches to statistics: Frequentist and Bayesian inference.

Generalised Linear and Additive Models

Linear regression relates a response or outcome variable to a number of predictor or input variables in certain situations. We see how to extend these ideas to wider regression frameworks, the generalised linear and generalised additive models, with a wide range of applications.

Hidden Markov Models and Their Application in Bioinformatics

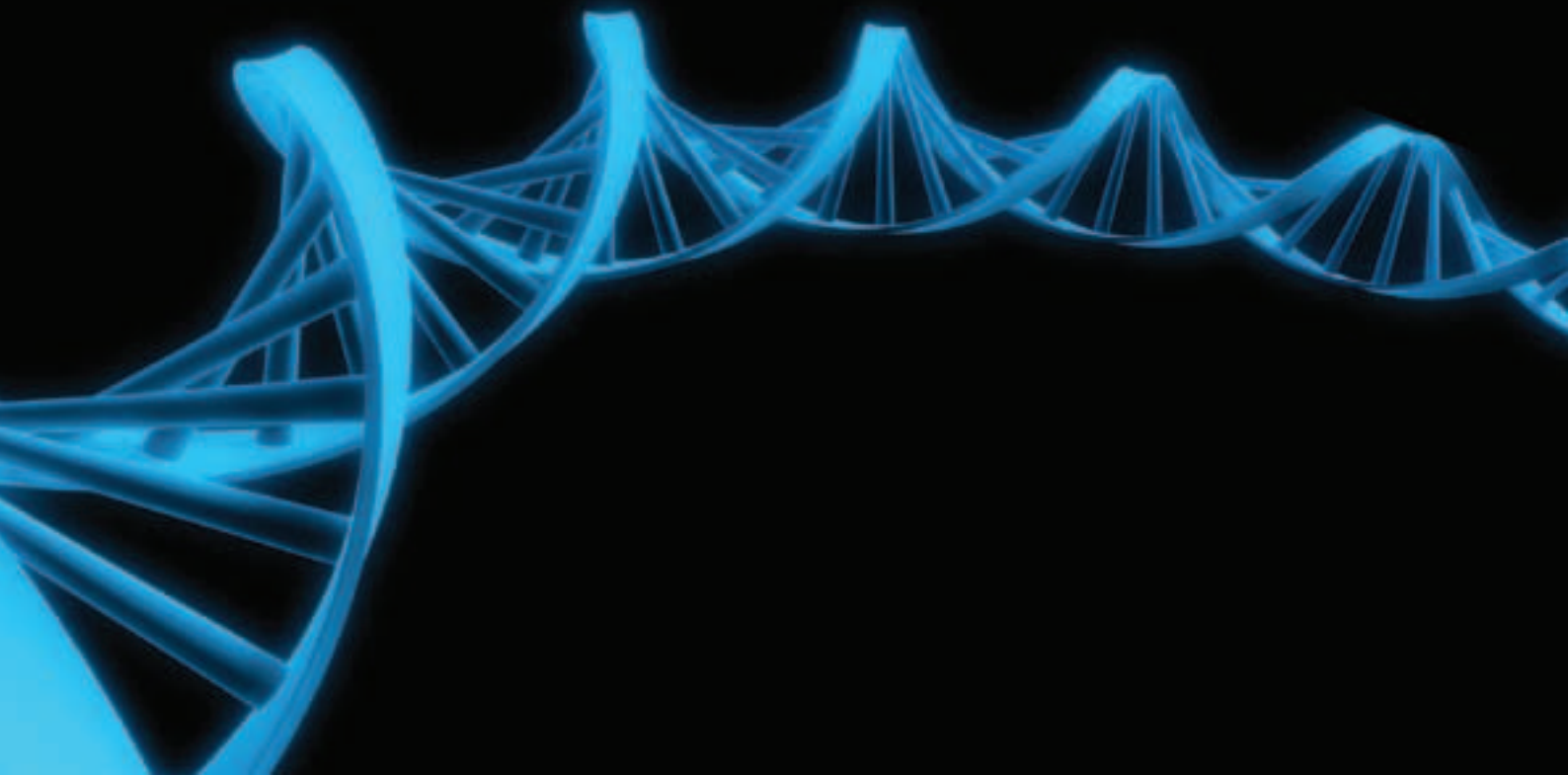
Examines Hidden Markov Models, dynamic programming methods, and an introduction to more complex stochastic grammar models; with applications in the analysis of DNA, RNA and protein sequence data.

Independent Learning Skills

A practical introduction to research methods including literature searching, writing styles, mathematical typesetting and giving presentations.

Multivariate and Cluster Analysis

Modern data sets typically include many different measurements on each individual studied. We explore how to analyse this kind of data, taking a holistic approach rather than dealing with each variable separately.





MSc Statistics with Applications to Finance

This degree programme is suitable for students from a wide range of backgrounds providing a broader understanding of statistics related to financial applications.

The course consists of modules which cover mainstream topics in statistical methodology and more specialised topics in statistical finance, reflecting the specific research interests of academic staff within the School.

Modules typically available include:

Stochastic Financial Modelling

Financial investments such as stocks and shares are risky: their value can go down as well as up. To compensate for the risk in a fair market, a discount is needed. This module will develop the necessary probabilistic tools to enable investors to value such assets.

Discrete Time Finance

This module develops a general methodology for the pricing of financial assets in risky financial markets based on discrete time models.

Robust Regression and Smoothing

A fundamental statistical tool is the simple linear regression model, which predicts the value of a normally-distributed response variable from a predictor variable. This module explores many ways to extend this simple model to cope with non-linear relationships and data corrupted by non-normal errors.

Time Series and Spectral Analysis

In time series, measurements are made at a succession of times, and it is the dependence between measurements taken at different times which is important. We concentrate on techniques for model identification, parameter estimation and forecasting future values of the time series.

Risk Management

This module gives comprehensive coverage of mathematical and practical approaches to financial risk management. Avoiding the disastrous consequences of badly managed risk requires detailed mathematical knowledge of how to quantify financial risk and stress-test a hedge.

Continuous Time Finance

Continuous time models play a central role in pricing of financial assets under more challenging circumstances than can be handled with discrete time models.

For further Information

On all our taught Masters courses and areas of research visit: www.maths.leeds.ac.uk/school/postgraduate

On related research areas:

The Astrophysical and Geophysical Fluids Group within the School of Mathematics:

www.maths.leeds.ac.uk/applied/Research/agf

The Institute for Climate and Atmospheric Science within the School of Earth and Environment:

www.see.leeds.ac.uk/research/icas

The School of Computing:

www.engineering.leeds.ac.uk/comp/research

PhD Research Programmes

Department of Applied Mathematics

Much of applied mathematics is concerned with solving challenging equations that describe interesting and important problems, and there is ample scope for a wide range of appealing PhD topics.

As well as conducting research in the foundations of applied mathematics, the Department also undertakes research in a variety of multidisciplinary settings. It has excellent connections with many other disciplines, including pure mathematics and statistics within the School of Mathematics, and astronomy, biology, computer science, earth sciences, engineering, environment, food science and physics within the University, as well as links with industry.

Current research falls into the following main areas:

- Applied Nonlinear Dynamics
- Astrophysical and Geophysical Fluid Dynamics
- Computational Partial Differential Equations
- Integrable Systems and Mathematical Physics
- Mathematical Biology and Medicine
- Polymeric and Non-Newtonian Fluids



Department of Pure Mathematics

The Department of Pure Mathematics is one of the largest and most active centres for pure mathematics research in the UK with research groups of international standing in four of the most vital areas of mathematics:

- Algebra
- Differential Geometry
- Functional Analysis
- Mathematical Logic

There is extensive interaction between these research groups, and with the Departments of Applied Mathematics and Statistics.

The Department hosts the Leeds Algebra Group and Leeds Logic Group which are recognised as 'Gold Peaks of Excellence' within the University. These peaks reflect the wealth of expertise, external recognition and reputation for international excellence and world-leading research in the Department.

There are weekly seminars for research students across algebraic, geometric, functional analysis and logic disciplines. As well as these weekly seminars there is a less specialised Departmental Colloquium which meets once or twice a term, and a weekly seminar course each year in each of the four major research areas.

Department of Statistics

The Department was ranked sixth in the UK's 2008 Research Assessment Exercise (RAE), for research quality, reflecting the world-leading nature of its research. It maintains a strong profile across a wide range of areas in both theoretical and applied statistics and probability.

A distinctive feature is its internationally recognised expertise in shape analysis and related areas. Building on these strengths the Department has established a Centre for Statistical Bioinformatics to encourage high profile interdisciplinary collaboration.

The Department organises the Leeds Annual Statistics Research (LASR) Workshop, which is a well-established international event, celebrating its 30th anniversary in 2011. Over recent years, the theme of the workshop has reflected the growing departmental interest in image and shape analysis and bioinformatics. There is also collaboration with other subject areas across the University including environmental sciences, transport studies, mining and mineral engineering, biochemistry, epidemiology and biostatistics.

Training opportunities for research students include the regular departmental seminars plus local and national meetings of the Royal Statistical Society. There is also a Postgraduate seminar series which gives students the opportunity to present their own work. Students are also encouraged to attend suitable national and international conferences.

Students can reinforce their background in statistics by attending some of the Department's extensive range of final year undergraduate and taught postgraduate modules. Week-long graduate training courses are also organised nationally by the Academy for PhD Training in Statistics (APTS). Where appropriate, there are opportunities to get involved in statistical consultancy; this provides both practical statistical training and the chance to develop more general interpersonal skills.

Key research areas include:

- Image and Shape Analysis, Spatio-Temporal Modelling
- Modern Data Analysis
- Statistical Bioinformatics
- Probability, Stochastic Modelling and Financial Mathematics



Further information

Details of individual academic staff and their research interests can be found at:

www.maths.leeds.ac.uk/school/postgraduate

The University

The University of Leeds has an international reputation and is a member of the prestigious Russell Group of research-led universities.

It is well known worldwide for the quality of its education and research, making it one of the most popular universities in the UK. Degrees from Leeds are recognised by employers and universities globally.

There are around 24,000 undergraduate and 6,000 postgraduate students at the University. Despite its size, the University has a friendly and supportive environment as students are taught within smaller Schools ensuring more personal surroundings for study. Within the Schools you will find modern, well-equipped lecture theatres and laboratories. On campus, we have an internationally-renowned academic library featuring a collection of 2,600,000 books and 9,000 periodicals, with access to electronic resources, including networked databases and electronic journals. The Edward Boyle library is located next door to the School of Mathematics providing additional study space, as well as computer clusters housing over 230 PCs for individual use.

In your spare time you will find the University has a lot to offer including great sports facilities. The Sports Centre offers a range of activities from beginners to competitive level and the new swimming pool, with its impressive design provides a 200 station fitness suite, together with a sauna and steam room. With playing fields for hockey, cricket, football and rugby a short distance away we can meet all your sporting aspirations.

The University also boasts a thriving Student Union (LUU) with a range of shops, bars and eateries. The Union is renowned for organising a wide range of entertainment and events. There are also over 200 student societies that you can get involved with.

LUU regularly wins awards which have recently included the National Union of Students (NUS) 'Higher Education Union of the Year' award, where it was selected from over 60 students' unions across the UK.

The City

Leeds is a key multi-cultural hub in the North of England with a vibrant mix of culture, commerce and style.

It is one of the most exciting and cosmopolitan cities in the UK and many students enjoy their time here so much that they stay on to live and work in the city after graduation.

The city is well known for its shopping and you can find a range of stores from small boutiques, with designer labels, to huge shopping malls. Leeds also offers an extensive choice of places to eat and drink. All culinary tastes are catered for, from Italian to Thai, Caribbean to vegetarian. Nightlife in and around the city is also known for its diversity and popularity, offering a range of cafes, bars and clubs.

Leeds is one of the greenest cities in Britain, with more parkland than any other European city and benefits from being close to the awe-inspiring scenery of the Yorkshire Dales where you can pursue a huge selection of outdoor activities.

“

Best university destination in the UK

Voted by **The Independent**

”





We Welcome International Students

The University of Leeds is a truly international university. We have links with over 600 institutions worldwide and up to 5,000 international students study with us each year.

We are one of the UK's top universities, world-famous for our teaching and research and situated in the heart of a vibrant and multicultural city.

The University has a dedicated International Centre which will provide support and advice throughout your time at Leeds University. The Centre can provide help from managing your money, to your health and welfare. Visit www.leeds.ac.uk/international for more information.





Accommodation

All our accommodation is within easy reach of the University and city centre.

Some residences are on campus, others within walking distance, and those residences further away are close to bus routes, shops and places to eat. We have a wide range of properties, so there is something to suit every budget. If you are a full-time international Masters or research postgraduate student (i.e. you pay fees at the international rate) you are guaranteed a single place in University accommodation during your first year at Leeds, provided that you apply for accommodation following our online procedure.

If you are a UK or EU postgraduate student you need to follow the same application process as for international postgraduates. We cannot guarantee you a place but we will do our best to find you suitable accommodation in one of our residences. There are usually a number of vacancies available every year to UK and EU postgraduates, so it is worth applying.

Before you can apply for accommodation you must formally accept your conditional or unconditional offer from Leeds. Accepting your offer will give you access to our online application system.

Apply online at www.leeds.ac.uk/accommodation/apply

Accommodation Services
University of Leeds
Leeds, LS2 9JT, UK

Tel: +44 (0)113 343 7777

Fax: +44 (0)113 343 6077

E-mail: accom@leeds.ac.uk

www.leeds.ac.uk/accommodation

Entry Requirements

For all taught masters and PhD study, except MSc Mathematics and Computer Science, a minimum of a BSc upper second class (2.1) honours degree or equivalent is required, in a subject relevant to the programme of study.

Candidates whose first language is not English will require an appropriate English language qualification.

For 2012 entry the minimum requirements are:

- IELTS (academic) 6.5 with at least 6.0 in all components
- TOEFL score (internet-based test) of at least 94 overall with at least 20 in listening, 23 in reading and speaking, and 24 in writing
- Pearson Test of English (PTE) academic score of 64 with at least 60 in all components.

(Please contact the School to confirm requirements for 2011 entry.)



MSc Mathematics and Computer Science:

A first or upper second class (2.1) BSc degree in mathematics or computer science (with a substantial mathematics component) or equivalent. We will also consider students who hold other degrees with a substantial mathematics component. English Language Requirements A pass at GCSE level in English Language (grade C or above). International students must have an English language qualification at a suitable level, for example IELTS 6.5 or equivalent.



The Application Process

Whether you are applying for a taught Masters course or a PhD programme there are three steps that you need to take.

1. Consider which programme of study you want to apply for.

For PhD research degrees you should take a look at the research areas and projects shown on the School of Mathematics website www.maths.leeds.ac.uk

2. Complete an application form online:

For Masters courses:
<http://www.leeds.ac.uk/students/apply.htm>

For PhD programmes:
http://www.leeds.ac.uk/info/20023/postgraduate_research

Applications for Masters courses should be made before the first week in August if you wish to start your study in September/October of that year. We strongly recommend that you apply before June to allow sufficient time for paperwork to be completed.

Applications for PhD programmes can be made at any time, but there are deadlines associated with applying for associated scholarships – please contact the School for further information. Please make sure you state your choice of research area(s) in order of preference on the application form. You are also welcome to indicate specific research projects of interest.

3. Provide supporting documentation.

In addition to your application form we will require:

- Your degree qualifications
- Transcripts of your academic records showing detailed marks in courses you have taken
- A minimum of two academic references in support of your application

Please email the above (as scanned documents) or send by post to the relevant contact shown on page 19.



Open Days

Each year the School of Mathematics holds two postgraduate open days.

These offer a great opportunity to visit Leeds and the School, and to meet staff and current students. To find out more about these or any other aspect of the application process, please contact us.

Contact Us

Taught Masters

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