

The Mathematics Institute was founded in 1964 by Professor Sir Christopher Zeeman, and since that time has gone from strength to strength. We have 60 academic staff (including 29 professors) and 100 PhD students based in the modern Zeeman Building.

The Department is strong in both pure and applied mathematics and its research interests cover a very broad range of the mathematical sciences. The Mathematics Research Centre (MRC) organises the visitors' programme, running year-long research symposia which attract mathematicians of international stature.

An increasing number of our PhD students are attached to one of three Warwick Doctoral Training Centres (MOAC, Systems Biology and Complexity Science) and are co-supervised in another department. In 2010 we launched a Centre for Doctoral Training, MASDOC (jointly with the Department of Statistics) which funds 10 PhD students per year in Applied Mathematics and Statistics (see page 128). We also participate with other universities (Bath, Bristol, Imperial and Oxford) in an EPSRC-funded Mathematics Training Course Centre delivering 20 PhD-level Maths courses to students in all five universities and beyond.

Warwick Pure Mathematics was ranked 2nd in the UK in the 2008 RAE and Applied Mathematics ranked equal first in the UK for the proportion of its research given the top 4* "world-leading" rating.

RESEARCH DEGREES

DOCTOR OF PHILOSOPHY (PhD)

TAUGHT MASTER'S DEGREES

MSc IN INTERDISCIPLINARY MATHEMATICS

MSc IN MATHEMATICS

WARWICK MATHEMATICS INSTITUTE

www.warwick.ac.uk/go/math

(see also MASDOC on page 127)

CONTACT DETAILS

Taught and Research Degrees:

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RESEARCH GROUPS

Pure Mathematics

The Institute is able to offer PhD supervision in most modern areas of Pure Mathematics. Particular areas of expertise include: Algebra, Analysis, Geometry, Dynamical Systems and Ergodic Theory, Number Theory, Probability and Stochastic Processes, Topology, Discrete Mathematics.

Applied Mathematics

We can offer PhD supervision in most modern areas of Applied Mathematics. Particular areas of expertise include: Applied Dynamical Systems, Fluid Dynamics, Continuum Mechanics, Computational Mathematics, Mathematical Biology, Partial Differential Equations.

RESEARCH DEGREES

DOCTOR OF PHILOSOPHY (PhD)

Standard Duration: 3 – 3.5 years

The Mathematics Institute is characterised by its international reputation, excellent facilities and strength in a broad range of topical research areas. Our academic staff are leading international researchers in many different areas and currently supervise approximately 100 PhD students. In the first year of the programme, students typically strengthen their background with research-level courses (for example through the taught course centre), building a foundation for research in subsequent years. This research is guided by their supervisor, and supported by participation in research seminars and discussion with colleagues. The aim is that a successful PhD student will be able to carry out independent and original mathematical research of the highest quality.



Shavak Sinanan,
PhD candidate
Mathematics Institute

“It’s not often that you find an environment that is both challenging and productive, while maintaining a comfortable and lively atmosphere. The Warwick Mathematics Institute does exactly that. The wide range of courses, seminars and colloquia, delivered by leading researchers from across the globe, ensures not only that your academic needs are fulfilled, but also that you are continuously intellectually stimulated. The mix of students from varied backgrounds makes the Institute a thoroughly enjoyable place to work (and socialise!)

Warwick is one of the few universities in England that has a comprehensive scheme for funding both home and international students. As an overseas student myself, I found the application process straightforward, and the award was certainly sufficient to cover all expenses incurred during my course.

Warwick’s position in the global research network is well established, so there are many opportunities to travel abroad for conferences and research visits. I spent a term at the University of Sydney, where I participated in the development of the Magma Computational Algebra System.

At Warwick, one can expect to work at the highest standards, with academics who are leading figures in their fields, guaranteeing that graduates are well prepared for their future careers.”

APPLICATION FACT FILE (RESEARCH DEGREES)

Entry Requirements

Normally 1st class MMath degree, or equivalent.

English Language Requirements

IELTS 6.5, TOEFL (iBT) 92 or equivalent.

Application

Applications should be made online at www.warwick.ac.uk/go/pgapply

Application Deadline

Applications are welcomed throughout the year.

Tuition Fees

(2011/12 fees. Please note fees for 2012/13 will be published online in spring 2012.)

Home/EU: full-time £3,900, part-time £2,340

Overseas (band 1): full-time £12,115, part-time £7,269

Funding

ESPRC funding is available, see Department website for further information. Details of the Chancellor's Scholarships and other funding opportunities are available on the Graduate School website: www.warwick.ac.uk/go/graduateschool

TAUGHT MASTER'S DEGREES

MSc IN INTERDISCIPLINARY MATHEMATICS

Standard Duration: 1 year full-time,
2 years part-time
Places available: 15

This programme is a step towards becoming a professional scientist. It is suitable for Mathematics graduates wishing to do a PhD in one of the sciences; Science graduates wishing to do a PhD in Mathematics and anyone with a reasonable mathematical background wishing to learn interactions between Sciences and Mathematics.

MSc IN MATHEMATICS

Standard Duration: 1 year full-time,
2 years part-time
Places available: 15

This MSc is a good option for those who are not yet ready to commit to a PhD as it provides a step towards becoming a professional mathematician. In many overseas institutions an MSc is a prerequisite for doing a PhD. The programme is aimed at Mathematics graduates wishing to expand their mathematical knowledge; Physics graduates wishing to become a research mathematician and good mathematicians with an unusual educational background wishing to return to more formal education.

The majority of students graduating with an MSc from the Institute have gone on to do a PhD in Mathematics or another Science, however a number have gone on to a variety of careers, such as in banking, finance and insurance companies.

Two-year MSc

It is also possible to take our MSc courses in two years rather than the standard one year. This option is primarily for those who have some mathematical training but not at a sufficient level to pass a full set of postgraduate examinations after one year of study. A Postgraduate Diploma is awarded at the end of the first year leading to MSc in year 2.

APPLICATION FACT FILE (TAUGHT MASTER'S DEGREES)

Entry Requirements

Interdisciplinary Mathematics: First class degree in Mathematics or Science from UK university or overseas equivalent.

Mathematics: First class degree in Mathematics (or Science with high mathematical content) from UK university or overseas equivalent.

English Language Requirements

IELTS 6.5, TOEFL (iBT) 92 or equivalent. For strong candidates who marginally miss these, it may be possible to conduct an interview. Other candidates may be offered the opportunity to attend a pre-sessional English course provided by the University.

Application

Applications should be made online at www.warwick.ac.uk/go/pgapply

Application Deadline

End of July but earlier application may be essential for students applying for a scholarship or requiring a visa.

Tuition Fees

(2011/12 fees. Please note fees for 2012/13 will be published online in spring 2012.)

Home/EU: Full-time £6,080, Part-time £3,040

Overseas: Full-time £12,325, Part-time £6,163

Funding

Santander fellowships are available for candidates from qualifying countries. Other funding opportunities are available on the Graduate School website: www.warwick.ac.uk/go/graduateschool

"Everything" by Ian Davenport, situated in the Mathematics Institute





Maria Veretennikova
*MASDOC MSc Mathematics
and Statistics*

“Warwick has one of the leading mathematical research centres in Europe.

After obtaining my first degree at the University of Leeds I secured a place and funding at Warwick Mathematics and Statistics Doctoral training Centre. The idea of thoroughly consolidating and broadening my knowledge of mathematics before starting my PhD sounded fantastic. So I chose continue my studies at MASDOC, and I am certainly very happy to have made this decision. For me MASDOC is an exciting bridge between undergraduate level study and research.

What makes it so unique is the research study group work. First, we worked on a project in data assimilation with applications to wildland fire forecasting. Now I am involved in a project in brain imaging. It is appealing to work on something which has real world applications. Enthusiastic and highly motivated MASDOC lecturers inspire and challenge us to unravel the new mathematics.

Coming from a different city I adjusted fairly quickly, thanks to the community spirit! The course is intense, however I still have the opportunity to engage in other activities here, such as chess and sports.

I am now more confident and plan to pursue my career in academia.”