



UNIVERSITY OF  
CAMBRIDGE

Department of Pure Mathematics  
& Mathematical Statistics

## Further Information for Applicants

### The Department

The Department of Pure Mathematics and Mathematical Statistics (DPMMS) is one of the two mathematics departments in Cambridge, the other being Department of Applied Mathematics & Theoretical Physics. The Statistical Laboratory is a sub-department of DPMMS. Together with the Isaac Newton Institute, the two departments occupy the Centre for Mathematical Sciences (CMS). The CMS is a beautiful development west of the city centre and close to other Science Departments. The accommodation is of the highest quality and was designed by mathematicians and architects to facilitate the study of mathematics. It comprises offices, meeting rooms, seminar/lecture rooms, and common rooms, and is equipped with an excellent computer network. It may be viewed at <https://www.dpmms.cam.ac.uk/about/photos/>

DPMMS comprises at present about 40 tenured staff, more than 70 post-doctoral members of the Department and more than 70 PhD students. It gained excellent quality profiles in both units of the 2008 Research Assessment exercise namely Pure Mathematics and Statistics/Operational Research (see <http://www.rae.ac.uk/Results/>).

The research environment in DPMMS is very lively. Many regular seminar series meet weekly during term, and there is a steady stream of short and long term visitors from around the world. The proximity of the Isaac Newton Institute is a major advantage for mathematics in Cambridge. DPMMS is responsible with DAMTP for teaching the undergraduate and Masters courses in mathematics. The student body is quite remarkable in size and quality, and is a privilege to teach. We admit in excess of 250 new mathematics undergraduates each year, leading to graduation after three or four years of study. First and second year lectures are generally held in the centre of Cambridge, a short bicycle ride from the CMS, while third year lectures are held in the CMS.

Each student is admitted to the University and also to one of the Colleges of the University. Undergraduates generally reside in their College, and are taught there by subject supervisors. Undergraduate teaching takes place during three 8/9 week terms; in the final term of the academic year, lecturing occupies the first 4 weeks, and examining the remainder. The teaching of undergraduates in small groups (an essential element of the success of mathematics education in Cambridge) is a College responsibility; there is no automatic linkage of a University Lectureship to a College Fellowship, but it is likely that anyone appointed as a University Lecturer will be approached by Colleges in due course.

The rewards for accepting a College Fellowship vary between Colleges and depend on the nature of the appointment. Possible benefits include meals, rooms, and pay for teaching and other jobs. The consequent remuneration may be several thousand pounds. Such

appointment is usually contingent on holding a university position, but is otherwise independent.

The fourth-year Masters (also known as Part III of the Mathematical Tripos) course attracts a substantial number of strong students from all parts of the world. Approximately 250 students enrol each year, around half of whom come from outside the United Kingdom. A very wide range of graduate level courses are given; in excess of 80 this academic year ranging across the whole of Pure and Applied Mathematics, Statistics, and Theoretical Physics.

### **Lecturers and Research Fellows**

The responsibilities of a University Lecturer are to engage in the teaching and research programmes of the Department and University as prescribed in the University Statutes, under the direction of the Head of Department. Lecturers are expected to supervise PhD students, to apply for research grants, and to participate in administration and examining.

The usual lecturing load for a member of DPMMS is approximately two courses or 48 lectures per year, being typically but not invariably one undergraduate course and one Masters course. All teaching is to specialist mathematicians; there is no service teaching. These comments are to be viewed as a guide to current practice only.

Research Fellows are expected to engage in original and innovative research within some area or areas of mathematics. If formal teaching duties are associated with a post that will be mentioned in the advertisement. However generally there is an opportunity to teach within the Master's course or at a graduate level. It is expected that Research Fellows will engage fully in research activities within the Department, and they are encouraged to participate in the running of seminar series.

### **Further information**

Information about the University and the Department may be found via the Departmental website at <http://www.dpmms.cam.ac.uk/>. Further information about mathematics in Cambridge is available at <http://www.maths.cam.ac.uk/>.

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