



MATHEMATICAL INSTITUTE
ANDREW WILES BUILDING

Job Description and Selection Criteria

Job title	Departmental Lecturer in Mathematical and Computational Finance
Division	Mathematical, Physical and Life Sciences
Department	Mathematical Institute
Location	Andrew Wiles Building, Radcliffe Observatory Quarter, Woodstock Road, Oxford, OX2 6GG.
Grade and salary	Grade 8: £49,119 - £58,265 per annum
Hours	Full time
Contract type	Fixed-term (3 years)
Reporting to	Head of Department
Vacancy reference	186822
Additional information	<p>This is a full-time position that cannot be held concurrently with any other substantive post without the explicit permission of the Head of Department.</p> <p>(PLEASE NOTE: Applicants are responsible for contacting two of their referees and making sure that their letters are sent to references@maths.ox.ac.uk by the closing date.)</p>

The role

The Mathematical Institute, University of Oxford, proposes to appoint a Departmental Lecturer in Mathematical and Computational Finance, from 1st September 2026 or as soon as possible thereafter. The appointment will be for a fixed period of 3 years.

As Departmental Lecturer, you will engage in advanced study and academic research in applied mathematics with a focus on mathematical and computational finance, as part of the Mathematical and Computational Finance Research Group led by Professor Rama Cont.

You will play a key role in contributing to the teaching and administration of the Research Group; most teaching and supervision will be for graduate programmes but some undergraduate teaching may also be



required. Details of all courses can be found at <https://courses.maths.ox.ac.uk/>. The postholder will also be expected to lead independent research projects and supervise MSc dissertations.

Responsibilities

The successful candidate will be expected to:

1. Lecture, tutor and supervise undergraduate and postgraduate students. The teaching requirement will normally be:
 - a. to give not fewer than thirty-two lectures in each academic year in the area of Mathematical Finance
 - b. to contribute not fewer than six sets of four classes per annum;
2. Undertake advanced academic study to underpin lectures and class teaching.
3. Produce lecture notes, course materials and reading lists in support of teaching undertaken, and contribute to syllabus development.
4. Engage in assessment and university examining.
5. Act as first point of contact for student matters relating to attendance, conduct, coursework, performance, and welfare (referring matters to appropriate others).
6. Participate in the graduate student admissions process.
7. Modify course design, content, or delivery and propose changes to regulations as appropriate.
8. Allocate tasks and provide supervision as required for the Tutors and Teaching Assistants assigned to the lecture course.
9. Provide supervision for students in the MSc in Mathematical and Computational Finance course.
10. In support of the development of courses, manage independent research projects or specific areas of research in mathematical and computational finance, including conducting original research and developing research questions within a specific context.
11. Identify sources of research income, develop proposals, and make funding applications to secure it.
12. Write research articles for prestigious peer-reviewed journals, book chapters, and reviews, present papers at conferences, lead seminars to disseminate research findings, and carry out collaborative projects with colleagues in partner institutions, and research groups.
13. Share in the work of departmental committees, developing academic strategies and policies.

Selection criteria

Your application will be judged only against the criteria which are set out below. You should ensure that your application shows clearly how your skills and experience meet these criteria.

The Selection Committee for this process is expected to comprise:

- Professor Rama Cont (Chair, Mathematical Institute)
- Professor Ben Hambly (Mathematical Institute)
- Professor Blanka Horvath (Mathematical Institute)

The University is committed to fairness, consistency and transparency in selection decisions. Members of the selection committee are aware of the principles of equality of opportunity, fair selection and the risks of bias.

If, for any reason, you have taken a career break, parental leave or have had an atypical career and wish to disclose this in your application, the selection committee will take this into account, recognising that the quantity of your experience may be reduced as a result.

Essential selection criteria

The successful candidate will be expected to meet the following criteria:

1. Hold a doctorate in mathematics or a related discipline;
2. Experience of working at postdoctoral level;
3. Evidence of the ability to devise and carry out an independent programme of research;
4. An excellent publication record in accordance with the applicant's career status (including high-quality papers in the last three years);
5. An aptitude for teaching and an ability to lecture at an appropriate level and in an engaging and stimulating manner;
6. Evidence of the skills for successful tutorial teaching, including the ability to explain problems and ideas lucidly, listen to students' questions and views sympathetically, and enthuse and inspire them;
7. Sufficient specialist knowledge to carry out high-quality research and supervise research projects relating to the existing activities and/or expertise encompassed within the Mathematical and Computational Finance Research Group;
8. Evidence of interpersonal and organisational skills and an ability and willingness to fulfil the administrative and pastoral functions outlined in these further particulars;
9. Demonstrate willingness to participate in access initiatives in order to encourage applications from students from a wide range of educational backgrounds;
10. Excellent verbal and written communication skills.
11. A commitment to demonstrating respect, courtesy and consideration within interactions with members of the University and College community.
12. An ability to foster a collaborative and inclusive research environment for people from different backgrounds.

Desirable selection criteria

1. Evidence of the ability to write research proposals;
2. Experience in the supervision of Master's level students and above.

Pre-employment screening

Standard checks

If you are offered the post, the offer will be subject to standard pre-employment checks. You will be asked to provide: proof of your right-to-work in the UK; proof of your identity; and (if we haven't done so already) we will contact the referees you have nominated. You will also be asked to complete a health declaration so that you can tell us about any health conditions or disabilities for which you may need us to make appropriate adjustments.

Please read the candidate notes on the University's pre-employment screening procedures at: <https://www.jobs.ox.ac.uk/pre-employment-checks>

Proof of qualifications

This post specifies that a PhD qualification is essential. If you are offered the post, you should therefore be in a position to provide proof of this qualification at least three months in advance of your proposed start date, and will be asked to provide the original PhD certificate or transcript as part of the pre-employment checks. If you do not yet have either of these documents, you should provide an academic

reference confirming submission of the thesis or that the qualification has been awarded. Failure to present either of these documents in a timely fashion could result in a delayed start. In particular where there is a need to apply for a valid work visa ahead of the appointment, you will need to provide proof of submission at least three months in advance of your proposed start date.

About the University of Oxford

Welcome to the University of Oxford. We aim to lead the world in research and education for the benefit of society both in the UK and globally. Oxford's researchers engage with academic, commercial and cultural partners across the world to stimulate high-quality research and enable innovation through a broad range of social, policy and economic impacts.

We believe our strengths lie both in empowering individuals and teams to address fundamental questions of global significance, while providing all our staff with a welcoming and inclusive workplace that enables everyone to develop and do their best work. Recognising that diversity is our strength, vital for innovation and creativity, we aspire to build a truly diverse community which values and respects every individual's unique contribution.

While we have long traditions of scholarship, we are also forward-looking, creative and cutting-edge. Oxford is one of Europe's most entrepreneurial universities and we rank first in the UK for university spin-outs, and in recent years we have spun out 15-20 new companies every year. We are also recognised as leaders in support for social enterprise.

Join us and you will find a unique, democratic and international community, a great range of staff benefits and access to a vibrant array of cultural activities in the beautiful city of Oxford.

For more information, please visit www.ox.ac.uk/about/organisation.

The Oxford Mathematical and Computational Finance Group

The [Oxford Mathematical and Computational Finance Group](#) is one of the world's leading research groups in the area of mathematical modelling in finance.

Faculty [research topics](#) including stochastic processes, derivative pricing, advanced computational methods in finance, decentralised finance, quantitative risk management, data-driven modeling and machine learning in finance, market microstructure and high-frequency modeling, macro-financial modelling and systemic risk.

The group has partnerships with the Oxford-Man Institute of Quantitative Finance and the [Centre for Doctoral Training in Mathematics of Random Systems](#).

More information about the group may be found at: <https://www.maths.ox.ac.uk/groups/mathematical-finance>

The Mathematical Institute

The Mathematical Institute, as Oxford's Department of Mathematics is known, is one of the leading mathematics departments in the world. Our mathematical research, impact and environment have twice been ranked first in the UK, in the 2021 and 2014 Research Excellence Framework exercises, a government review of research in all UK universities. The Mathematical Institute is the focus of research into both fundamental mathematics and its applications, and our inclusive nature and overall size are key factors in the provision of an outstanding research environment for our members. The large number of faculty, postdocs and students in the Mathematical Institute, all supported by excellent facilities, allows us to maintain a critical mass in research groups encompassing a wide spectrum of mathematics, while

our integrated nature fosters collaboration between fields. We also host a large number of academic visitors. Our web pages (www.maths.ox.ac.uk) provide comprehensive information about all of our activities.

The research activities of the Institute as a whole can be gauged from the web pages of the research groups and centres within the Institute (www.maths.ox.ac.uk/research). The range of our research interests is well reflected by the profile of our faculty as listed at www.maths.ox.ac.uk/people. Many members of the Institute have received prestigious prizes and other special recognition for their work; some recent examples can be found at www.maths.ox.ac.uk/news.

The Mathematical Institute moved into the purpose-built Andrew Wiles Building in the University's Radcliffe Observatory Quarter in September 2013. As well as providing offices for all staff and graduate students, it houses a range of other facilities available to members of the department, including the Whitehead Library, a large range of meeting rooms, teaching spaces, lecture rooms, and social spaces, and a small laboratory for carrying out table-top experiments. For more information, see www.maths.ox.ac.uk/about-us.

Teaching is central to the life of the Mathematical Institute and we have around 900 undergraduates on course, some on joint courses with other departments. We teach around 250 students each year across five taught master's degree courses, and have over 250 doctoral students in residence at any one time. Our doctoral programme always attracts the best research students from across the world, and we have a broad mentoring and training programme.

The Mathematical Institute strives to ensure that all staff and students are given the opportunities and support they need to achieve their potential. We are committed to equality of opportunities and to advancing women's careers. We support staff returning from long-term absence with teaching relief, offer flexible working arrangements, and the department sponsors University nursery places to support the priority allocation of childcare to our staff. Further information about family support can be found below under University Benefits, Terms and Conditions. Our [Equality, Diversity & Inclusion Committee](#)¹ contributes to many aspects of our work.

As part of the department's commitment to openness, inclusivity and transparency, we strongly encourage applications from all who consider they meet the requirements of the post, and particularly from women and ethnic minorities.

We have a number of family-friendly policies, such as the right to apply for flexible working, hybrid working, and support for staff returning from periods of extended absence. We are committed to ensuring an inclusive interview process and will reimburse up to £250 towards any additional care costs (for a dependent child or adult) incurred as a result of attending an interview for this position, which may not be applicable if the interviews are held remotely.

For more information on the Mathematical Institute, please visit: www.maths.ox.ac.uk

We proudly hold a departmental Athena SWAN Silver Award and an institutional Race Equality Charter Bronze Award.

¹ The Mathematical Institute was a founding supporter of the London Mathematical Society's Good Practice Scheme (www.lms.ac.uk/women/good-practice-scheme). We have held an Athena SWAN Silver Award since 2016.

The Mathematical, Physical and Life Sciences Division

Oxford is widely regarded as one of the world's leading science universities, and the University's Mathematical, Physical and Life Sciences (MPLS) Division sits at the heart of this reputation. It offers an outstanding environment for research, teaching, and innovation across the mathematical, computational, physical, engineering, and life sciences. As one of the four academic divisions of the University of Oxford, encompassing nine academic departments, a Doctoral Training Centre and Begbroke Science Park, it provides a collaborative, interdisciplinary community with a vibrant network of leading researchers and educators.

The division's research outputs, environment, and impact are consistently recognised at the highest levels, both nationally and internationally. MPLS departments regularly appear at the top of global league tables, including the Times Higher Education and QS World Rankings. Our strong performances in the UK Research Excellence Framework in both 2014 and 2021 also highlight the quality and impact of our work. These achievements reflect not only our academic excellence but also the strong networks we foster— with industrial partners, policymakers, and global research institutions.

Our vibrant research environment continues to evolve with major new investments in infrastructure. The Life and Mind Building, the University's largest-ever building project, opened in 2025. It provides purpose-built facilities for the Departments of Biology and Experimental Psychology in inspiring spaces designed to foster collaboration, and brings together researchers working on some of the most pressing questions in life sciences and human behaviour. The striking and modern Andrew Wiles Building houses our Mathematical Institute next to the Schwarzman Humanities Building, and the Beecroft Building on the edge of University Parks has provided a transformative home for our physicists. Current plans include significant investment to expand our interdisciplinary research and innovation support facilities at Begbroke Science Park and to transform Osney Mead, to the west of the city centre, into a dynamic innovation district, further strengthening Oxford's position as a world leader in science, technology, and enterprise.

MPLS shares the University's commitment to fostering an inclusive culture which promotes equality, values diversity and maintains a working, learning and social environment in which the rights and dignity of all its staff and students are respected. We provide a supportive and inclusive environment for academics at every career stage, from all over the world. The Division has a strong tradition of securing prestigious fellowships and supporting researchers as they progress in their careers and to leadership roles. We recognise the value of Oxford's diverse student and staff communities, and the range of experiences and perspectives that brings. Our diversity strengthens our research, enhances our teaching, and enables a deeper engagement with the world. Every MPLS academic department holds an Athena Swan Award which is an external accreditation scheme that recognises good practice in promoting gender equality in higher education.

For educators, Oxford's tutorial system offers an unparalleled opportunity to engage with talented students and contribute to one of the world's most respected teaching systems. The division plays a central role in shaping the future of science through its graduate programmes, with over 3,500 postgraduate students receiving rigorous training and mentorship across MPLS departments.

For more information about the MPLS Division and the dedicated professional support it provides to academics across the sciences, please visit: <http://www.mpls.ox.ac.uk>

How to Apply

Applications are made through our online recruitment portal. Information about how to apply is available on our Jobs website <https://www.jobs.ox.ac.uk/how-to-apply>.

Your application will be judged solely on the basis of how you demonstrate that you meet the selection criteria stated in the job description.

You will be required to upload a curriculum vitae, list of publications, details of your teaching experience, a statement of your research interests, and a supporting statement. The supporting statement must explicitly explain how you meet each of the selection criteria for the post using examples of your skills and experience. This may include experience gained in employment, education, or during career breaks (such as time out to care for dependants).

Please upload all documents **as a single PDF file** with your name and the document type in the filename, quoting vacancy reference **186822**

Applicants are responsible for asking two of their referees to send their reference letters DIRECTLY to the HR Administrator email: references@maths.ox.ac.uk by the advertised closing date. Referees are asked to clearly state the applicant's name and vacancy ID: 186822 in the subject line of the email. Please note that only two references will be considered. Referees should preferably not all be from the same institution. Whenever possible one referee should be the applicant's current, or most recent, supervisor.

All applications must be received by **12.00 noon** UK time on **the advertised closing date for this post**.

Interviews are anticipated to take place on in late July 2026.

Information for priority candidates

A priority candidate is a University employee who is seeking redeployment because they have been advised that they are at risk of redundancy, or on grounds of ill-health/disability. Priority candidates are issued with a redeployment letter by their employing department(s).

If you are a priority candidate, please ensure that you attach your redeployment letter to your application (or email it to the contact address on the advert if the application form used for the vacancy does not allow attachments).

DATA PROTECTION: All data supplied by applicants will be used only for the purposes of determining their suitability for the post, and will be held in accordance with the principles of the Data Protection Act 1998 and the department's data protection policy.

<https://www.maths.ox.ac.uk/members/policies/data-protection/statement>

Due to the large volume of recruitment that the department administers we are unable to provide feedback to non-shortlisted applicants.

If you need help

Application FAQs, including technical troubleshooting advice is available at: <https://staff.web.ox.ac.uk/recruitment-support-faqs>

Non-technical questions about this job should be addressed to the recruiting department directly at vacancies@maths.ox.ac.uk.

To return to the online application at any stage, please go to: www.recruit.ox.ac.uk.

Please note that you will receive an automated email from our online recruitment portal to confirm receipt of your application. **Please check your spam/junk mail** if you do not receive this email.

Important information for candidates

Data Privacy

Please note that any personal data submitted to the University as part of the job application process will be processed in accordance with the GDPR and related UK data protection legislation. For further information, please see the University's Privacy Notice for Job Applicants at: <https://compliance.admin.ox.ac.uk/job-applicant-privacy-policy>. The University's Policy on Data Protection is available at: <https://compliance.admin.ox.ac.uk/data-protection-policy>.

The University's policy on retirement

The University operates an Employer Justified Retirement Age (EJRA) for very senior research posts at **grade RSIV/D35 and clinical equivalents E62 and E82** of 30 September before the 70th birthday. The justification for this is explained at: <https://hr.admin.ox.ac.uk/the-ejra>.

For existing employees on these grades, any employment beyond the retirement age is subject to approval through the procedures: <https://hr.admin.ox.ac.uk/the-ejra>.

There is no normal or fixed age at which staff in posts at other grades have to retire. Staff at these grades may elect to retire in accordance with the rules of the applicable pension scheme, as may be amended from time to time.

Equality of opportunity

The University of Oxford is committed to equal opportunity, and to being an inclusive institution where everyone belongs and is supported to succeed. We recognise how the diversity of our community enriches our ability to deliver on our academic mission.

We welcome applications from individuals from all backgrounds, including those under-represented within higher education. No applicant or members of staff shall be unlawfully discriminated against on the basis of age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, race, religion or belief, sex, or sexual orientation.

Recruitment, progression within employment and retention will be determined according to personal merit and the duties and requirements of the post. In all cases, the primary consideration will be the ability to perform the job.

Our commitment to equality and diversity goes hand in hand with our commitment to academic freedom and freedom of speech, as stated in the University's Equality Policy and Equality, Diversity and Inclusion Strategic Plan.

Benefits of working at the University

Employee benefits

University employees enjoy 38 days' paid holiday, generous pension schemes, travel discounts, and a variety of professional development opportunities. Our range of other employee benefits and discounts also includes free entry to the Botanic Gardens and University colleges, and discounts at University museums. See <https://hr.admin.ox.ac.uk/staff-benefits>

Employee Assistance Programme

As part of our wellbeing offering staff get free access to Spectrum.Life, a confidential employee assistance programme, available 24/7 for 365 days a year. Find out more <https://staff.admin.ox.ac.uk/spectrum.life>.

University Club and sports facilities

Membership of the University Club is free for all University staff. The University Club offers social, sporting, and hospitality facilities. Staff can also use the University Sports Centre on Iffley Road at discounted rates, including a fitness centre, powerlifting room, and swimming pool. See www.club.ox.ac.uk and <https://www.sport.ox.ac.uk/>.

Information for staff new to Oxford

If you are relocating to Oxfordshire from overseas or elsewhere in the UK, the University's Welcome Service website includes practical information about settling in the area, including advice on relocation, accommodation, and local schools. See <https://welcome.ox.ac.uk/>

There is also a visa loan scheme to cover the costs of UK visa applications for staff and their dependents. See <https://staffimmigration.admin.ox.ac.uk/visa-loan-scheme>.

Family-friendly benefits

We are a family-friendly employer with one of the most generous family leave schemes in the Higher Education sector (see <https://hr.web.ox.ac.uk/family-leave>). Our Childcare Services team provides guidance and support on childcare provision, and offers a range of high-quality childcare options at affordable prices for staff. In addition to 5 University nurseries, we partner with a number of local providers to offer in excess of 450 full time nursery places to our staff. Eligible parents are able to pay for childcare through salary sacrifice, further reducing costs. See <https://childcare.admin.ox.ac.uk/>.

Supporting disability and health-related issues (inc menopause)

We are committed to supporting members of staff with disabilities or long-term health conditions, including those experiencing negative effects of menopause. Information about the University's Staff Disability Advisor, is at <https://edu.admin.ox.ac.uk/disability-support>. For information about how we support those going through menopause see <https://hr.admin.ox.ac.uk/menopause-guidance>.

Staff networks

The University has a number of staff networks including the Oxford Research Staff Society, BME staff network, LGBT+ staff network and a disabled staff network. You can find more information at <https://edu.admin.ox.ac.uk/networks>

The University of Oxford Newcomers' Club

The University of Oxford Newcomers' Club is an organisation run by volunteers that aims to assist the partners of new staff settle into Oxford, and provides them with an opportunity to meet people and make connections in the local area. See www.newcomers.ox.ac.uk.

Research Staff

The Researcher Hub supports all researchers on fixed-term contracts. They aim to help you settle in comfortably, make connections, grow as a person, extend your research expertise and approach your next career step with confidence. Find out more <https://www.ox.ac.uk/research/support-researchers/researcher-hub>

Oxford's Research Staff Society is a collective voice for our researchers. They also organise social and professional networking activities for researchers. Find out more <https://www.ox.ac.uk/research/support-researchers/connecting-other-researchers/oxfordresearch-staff-society>