

# Job description

Job title	Researcher in Reproductive Demography
Division	Medical Sciences Division
Department	Oxford Population Health (Nuffield Department of Population Health, University of Oxford)
Location	Leverhulme Centre for Demographic Science (LCDS), Demographic Science Unit, 42 Park End Street, Oxford, OX1 1JD  Hybrid working available (up to 40% of hours can be worked remotely)
Grade and salary	Grade 7: £38,674- £46,913 per annum (including Oxford Weighting Allowance)
Hours	Full time (Part time considered)
Contract type	Fixed-term – 2 years
Vacancy reference	179099



## About Oxford Population Health

Oxford Population Health (the Nuffield Department of Population Health) provides an excellent environment for multi-disciplinary research and teaching and for professional and support staff. We work together to answer some of the most important questions about the causes, prevention and treatment of disease.

The Department has around 1000 staff, students and academic visitors working in a number of world-renowned population health research groups, including the Clinical Trial Service Unit and Epidemiological Studies Unit (CTSU), the Cancer Epidemiology Unit (CEU), the National Perinatal Epidemiology Unit (NPEU) and other groups working on public health, health economics, ethics and health record linkage. It is also a key partner in the Oxford University's Big Data Institute.

In the 2021 Research Excellence Framework (REF), 96% of the research submitted to Unit of Assessment 2: Public Health, Health Services and Primary Care, was ranked either 4\* (world-leading in terms of originality, significance and rigour) or 3\* (internationally excellent in terms of originality, significance and rigour). This comprised research from Oxford Population Health and research from the Nuffield Department of Primary Care Health Sciences. We scored particularly well for having an environment that is conducive to producing research of world-leading quality and enabling outstanding impact, in terms of its vitality and sustainability.

In addition to its research activities, the Department is home to the [MSc in Global Health Science and Epidemiology](#), the [MSc in Clinical Trials](#), and a variety of short courses. Students also come to undertake research for [DPhil degrees](#). Teaching is provided for undergraduates reading for Medicine and for public health doctors in specialist training.

For more information please visit the [Oxford Population Health website](#).

## About the Medical Sciences Division

The Medical Sciences Division is an internationally recognised centre of excellence for biomedical and clinical research and teaching, and the largest academic division in the University of Oxford.

World-leading programmes, housed in state-of-the-art facilities, cover the full range of scientific endeavour from the molecule to the population. With our NHS partners we also foster the highest possible standards in patient care.

For more information please visit the [Medical Sciences Division website](#).

## 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 the [Oxford University website](#).

## Leverhulme Centre for Demographic Science and Demographic Science Unit

Demographic research aids society, government and industry to prepare for demands related to population growth and shrinkage, climate change, migration, longevity and ageing, fertility and household change. This [interdisciplinary research centre](#) funded by the Leverhulme Trust and directed by Professor Melinda Mills, aims to disrupt and realign how we measure and model populations, by infusing new types of data, methods and unconventional approaches to tackle the most challenging demographic problems of our time. LCDS is embedded within [Oxford Population Health](#) (Nuffield Department of Population Health), the Big Data Institute and the Demographic Science Unit, which contains world-renowned population health research groups and is an excellent environment for multi-disciplinary teaching and research. LCDS brings together multiple departments and disciplines from demography, population health, statistics, epidemiology, molecular genetics, economics, statistics, biology, zoology, history, sociology, marketing and business. LCDS is physically located at 42 Park End Street, Oxford.

For more information: <https://www.demography.ox.ac.uk/>

## The role

This is a postdoctoral position on a UKRI funded project (originally awarded as the ERC Consolidator Grant project SEXRATIOS) which seeks to understand variation in natural sex ratios at birth and their implications for measuring missing women and gender discrimination more broadly.

The post holder will report directly to Dr. Joshua Wilde, and will form an integral part of the SEXRATIO project team consisting of another Postdoctoral Researcher and a network of collaborators across multiple institutions. The role will offer the opportunity to focus on research at the intersection of both social and biological determinants of fertility behavior, with a heavy emphasis on maternal and reproductive health. Particular importance will be placed on the link between maternal stress and sex-biased conception and fetal loss.

You will be based within the Demographic Science Unit which is an interdisciplinary research centre aiming to disrupt and realign how we measure and model populations, but infusing new types of data, methods and unconventional approaches to tackle the most challenging demographic problems of our time. The Demographic Science Unit is part of the Oxford Population Health (Nuffield Department of Population Health), which contains world-renowned population health research groups and is an excellent environment for multi-disciplinary teaching and research.

## Responsibilities

- Manage own academic research and administrative activities. This involves small scale project management, to co-ordinate multiple aspects of work to meet deadlines
- Adapt existing and develop new research methodologies and materials
- Prepare working theories and analyse quantitative data from a variety of sources, reviewing and refining theories as appropriate
- Contribute ideas for new research projects
- Develop ideas for generating research income, and present detailed research proposals to senior researchers
- Collaborate in the preparation of research publications, and book chapters
- Present papers at conferences or public meetings
- Act as a source of information and advice to other members of the group on methodologies or procedures
- Represent the research group at external meetings/seminars, either with other members of the group or alone
- To contribute, as required to the wider academic activities of the Nuffield Department of Population Health (including teaching, student mentoring or supervision, and assessment) and to participate in appropriate training and quality assurance processes for such roles.

The above list is not exhaustive and the role-holder is required to undertake such duties as may reasonably be requested within the scope of the post. All staff are required to act in a professional, cooperative and flexible manner, in line with the requirements of the post.

## Selection criteria

### Essential

- Hold, or be close to completion of a PhD/DPhil in Demography, Sociology, Economics, Statistics, Public/Population Health, Geography, Global Affairs, or a related field
- Relevant experience working on reproductive demography

- Possess sufficient specialist knowledge in the discipline to work within established research programmes
- A record of high-quality research, commensurate with the candidate's career stage
- Experience writing computer code in Stata and/or R for data analysis and visualisation
- Ability to manage own academic research and associated activities
- Excellent communication skills, including the ability to write for publication, present research proposals and results, and represent the research group at meetings
- Excellent time management skills and the ability to prioritise in order to meet multiple deadlines
- Ability to work in team or independently

## Desirable

- Experience in and strong grasp of statistical methods for modelling hierarchical data
- Experience working with one or more of the following types of data: social media, geospatial, remote sensing, household surveys, census
- Experience with geospatial data processing, visualisation, and analysis in R, Python, QGIS, or ArcGIS.
- Experience making grant applications
- Familiarity with the existing literature and research related to the SEXRATIO project

## 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.

## How to apply

Applications are made through our e-recruitment system and you will find all the information you need about how to apply on our [Jobs website](#).

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

As part of your application you will be asked to provide details of two referees and indicate

whether we can contact them now.

You will be asked to upload a CV and a supporting statement. The supporting statement must 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 your CV and supporting statement **as PDF files** with your name and the document type in the filename.

All applications must be received by **midday** UK time on the closing date stated in the online advertisement.

## 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 departments.

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).

## If you need help

Help and support is available from the [HR Systems Recruitment support webpage](#). If you require any further assistance please [email the Recruitment Support team](#).

To return to the online application at any stage, please go to the [University's recruitment website](#). Please note that you will receive an automated email from our e-recruitment system 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](#). The University's Policy on Data Protection is available on the [University's Compliance webpages](#).

### 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, which with effect from 1 October 2023 will be 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

Entry into employment with the University and progression within employment will be determined only by personal merit and the application of criteria which are related to the duties of each particular post and the relevant salary structure. In all cases, ability to perform the job will be the primary consideration. No applicant or member of staff shall be discriminated against because of age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, race, religion or belief, sex, or sexual orientation.

# 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.

## 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.

## 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. There is also a [visa loan scheme](#) to cover the costs of UK visa applications for staff and their dependents.

## Family-friendly benefits

With one of the most generous family leave schemes in the Higher Education sector, and a range of flexible working options, Oxford aims to be a family-friendly employer. We also subscribe to the [Work+Family Space](#), a service that provides practical advice and support for employees who have caring responsibilities. The service offers a free telephone advice line, and the ability to book emergency back-up care for children, adult dependents and elderly relatives.

The University has excellent childcare services, including five University nurseries as well as University-supported places at many other private nurseries. For full details, including how to apply and the costs, see the [Childcare Services webpages](#).

## Disabled staff

We are committed to supporting members of staff with disabilities or long-term health conditions. For further details, including information about how to make contact, in confidence, with the University's Staff Disability Advisor, see the [Disability Support webpages](#).

## 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 on the [Equality and Diversity at Oxford webpages](#).

## 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.