THE UNIVERSITY OF
MELBOURNE

School of Mathematics and Statistics
Faculty of Science

Lecturer / Senior Lecturer in Statistics and Data Science Education

POSITION NO	0064095
CLASSIFICATION	Level B / Level C
SALARY	Level B $119,231 - $141,581 per annum
	Level C $146,050 - $168,403 per annum
	Level of appointment is subject to qualification and experience
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full-Time (1.0 FTE)
BASIS OF EMPLOYMENT	Continuing
	FLEXIBLE EMPLOYMENT
	The University of Melbourne is strongly committed to supporting diversity and flexibility in the workplace. Applications for part-time or other flexible working arrangements will be welcomed and will be fully considered subject to meeting the inherent requirements of the position.
OTHER BENEFITS	https://about.unimelb.edu.au/careers/staff-benefits
HOW TO APPLY	Online applications are preferred. Go to http://about.unimelb.edu.au/careers, select the relevant option ('Current Staff' or 'Prospective Staff'), then find the position by title or number.
CONTACT FOR ENQUIRIES ONLY	Professor Howard Bondell Tel: +61 3 8344 0169 Email: howard.bondell@unimelb.edu.au *Please do not send your application to this contact*

For information about working for the University of Melbourne, visit our website:
about.unimelb.edu.au/careers

Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of country throughout Australia. The University recognises the unique place held by Aboriginal and Torres Strait Islander peoples as the original custodians of country and their continued connection to the land, waterways, songlines and culture. The University respects all Aboriginal and Torres Strait Islander People and warmly embrace those students, staff, Elders and collaborators who identify as First Nations.

Position Summary

The School of Mathematics and Statistics seeks to expand its expertise and leadership in Statistics and Data Science education. The appointment will be at Level B or Level C depending on the candidate's previous experience.

The successful candidate will contribute to and lead an innovative academic program of teaching, along with research in statistics and data science education. This role is within the School of Mathematics and Statistics, where the incumbent will make significant contributions to education within the school. This includes affiliation with the Mathematics and Statistics Learning Centre (MSLC), and the MSLC's programme of academic and administrative leadership and support for learning and teaching. The successful applicant will contribute to the national and international community through the conduct of research in statistics and data science education, or scholarship of learning and teaching in statistics and data science. There may also be opportunities for the candidate to conduct other discipline-related research.

In the domain of learning and teaching, the role includes delivering lectures and small group classes, coordinating subjects at the undergraduate level, and developing course materials including learning resources, assessments and curricula.

The candidate will also contribute to the leadership of academic and administrative services provided by the MSLC to the School's staff and students, these include tutor recruitment, training and work allocations; assessment administration; and mentoring of casual and fixed-term teaching staff. The candidate is expected to provide leadership for some aspects of the MSLC's activities and contribute to others as needed.

It is anticipated that the nominal breakdown for this role is approximately 60% teaching-related activity, 20% research and scholarship, 20% leadership and service.

The School of Mathematics and Statistics encourages applicants who identify as women, transgender, non-binary or gender diverse. Equally, we encourage applicants from diverse ethnic and cultural backgrounds and non-traditional education backgrounds. To allow us to consider performance relative to opportunity, we also invite applicants to provide a brief statement (up to 1 page) that describes circumstances that may have affected their career development or progression, including career interruptions or delays, periods of part time work, or forms of bias they have experienced.

1. Key Responsibilities

As with all positions, career achievements will be interpreted relative to opportunity, including career disruptions due to caring responsibilities, time in industry, illness etc.

The position description should be read alongside Academic Career Benchmarks and Indicators.

A level B academic has well developed academic skills and strong academic performance (approaching or progressing towards the benchmarks).

A level C academic has mastery of academic skills and excellent academic performance (meeting or approaching towards the benchmarks).

1.1 EDUCATION AND LEARNING

The appointee will develop and teach undergraduate subjects primarily in statistics and primarily at first- and second-year undergraduate levels. This entails:

- delivering lectures and small group classes such as tutorials and computer laboratory classes;
- co-ordinating large undergraduate subjects;
- developing subject teaching material, such as lecture notes, tutorial activities, revision materials as appropriate;
- advising students on academic and administrative matters relating to the subject;
- using and supporting relevant online teaching tools such as LMS and discussion board;
- adapting and developing subjects to maintain the relevancy and suitability of subject materials; and
- contributing to innovation in learning and teaching more broadly at an undergraduate level.

1.2 LEADERSHIP AND SERVICE

The appointee will be expected to:

- Develop school-level leadership for innovation and development in statistics education.
- Contribute to the academic and administrative services provided by the MSLC. This could include: tutor recruitment, training and work allocations; assessment administration; evaluation of undergraduate students' mathematical qualifications for prerequisite purposes and advanced standing; and mentoring of casual and fixed-term teaching staff.
- Provide leadership for some of the MSLC's academic and administrative roles.
- Provide advice to students on academic and administrative matters pertaining to the School's undergraduate subjects and courses.
- Mentor undergraduate students as part of the University's academic mentoring program.
- Actively participate at School and MSLC meetings and contribute to planning activities, outreach, and committee work to support capacity-building in the School and discipline.
- Effectively demonstrate and promote University values including diversity and inclusion and high standards of ethics and integrity.

1.3 SCHOLARSHIP AND RESEARCH

- Develop a program of research and/or scholarship of teaching and learning in statistics.
- Mentor graduate research students, particularly in the practice and innovation of teaching and learning.

- Participate in professional activities, including attending and presenting at conferences and seminars related to statistics education or scholarship of teaching and learning in statistics.

- Dissemination of research/scholarship in statistics education or scholarship of teaching and learning in statistics, via publications, presentations, and/or practical implementation and impact.

1.4 OTHER

The appointee will be expected to:

- Undertake other tasks as requested by the Head of School or Academic Manager of the MSLC.

- Actively participate in the University Performance Development Framework.

- Ensure an up-to-date record of University compliance courses, such as, but not limited to, Appropriate Workplace Behaviour, PDF for Staff and Supervisors, OH &S training courses.

- Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in section 4.

2. Selection Criteria

2.1 ESSENTIAL

- A PhD in statistics, or another relevant discipline.

- Demonstrated excellence in teaching statistics at the undergraduate level.

- Evidence of contributions to statistics education or the scholarship of teaching and learning in statistics and demonstration of a growing national and/or international reputation.

- Ability to quickly and independently learn new technologies or organisational systems.

- Demonstrated excellent organisational skills to meet deadlines and bring projects to a timely completion.

- Excellent interpersonal and both written and oral communication skills in English.

- An understanding of issues relevant to first-year university students, such as the transition from school to university, and the changing landscape of mathematics/statistics education in the post-pandemic era.

2.2 DESIRABLE

- Experience as coordinator of large undergraduate subjects in a relevant discipline

- Experience in leading educational development and innovation in a relevant discipline.

- Strong digital literacy in educational technology relevant to teaching in mathematics and statistics, including computer programming skills.

- Experience with managing and mentoring others in teaching, particularly those that are also graduate research students.

- Familiarity with the Australian secondary school mathematics and statistics curriculum, as well as common international mathematics and statistics secondary school qualifications (e.g., International Baccalaureate)

2.3 OTHER JOB-RELATED INFORMATION

▸ This position requires the incumbent to hold a current and valid Working with Children Check.

▸ This position will occasionally require to incumbent to work outside of normal working hours and on weekends.

> *Research suggests that individuals from underrepresented groups tend to apply for jobs only when they feel they satisfy all the criteria. If you think you are a good candidate for this role, but don't necessarily meet every single selection criteria, we encourage you to still apply or to get in touch with us.*

3. Equal Opportunity, Diversity and Inclusion

The University is an equal opportunity employer and is committed to providing a workplace free from all forms of unlawful discrimination, harassment, bullying, vilification and victimisation. The University makes decisions on employment, promotion, and reward on the basis of merit.

The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. This commitment is set out in the Advancing Melbourne strategy that addresses diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

The University values diversity because we recognise that the differences in our people's age, race, ethnicity, culture, gender, nationality, sexual orientation, physical ability and background bring richness to our work environment. Consequently, the People Strategy sets out the strategic aim to drive diversity and inclusion across the University to create an environment where the compounding benefits of a diverse workforce are recognised as vital in our continuous desire to strive for excellence and reach the targets of Advancing Melbourne.

4. Occupational Health and Safety (OHS)

All staff are required to take reasonable care for their own health and safety and that of other personnel who may be affected by their conduct.

OHS responsibilities applicable to positions are published at:

https://safety.unimelb.edu.au/people/community/responsibilities-of-personnel

These include general staff responsibilities and those additional responsibilities that apply for Managers and Supervisors and other Personnel.

5. Other Information

5.1 SCHOOL OF MATHEMATICS AND STATISTICS

http://www.ms.unimelb.edu.au

The University of Melbourne's School of Mathematics and Statistics is one of Australia's leading mathematics and statistics schools. It has achieved this status through the high quality of its research and teaching programs. The School offers a wide range of subjects to undergraduate and postgraduate students and is involved in aspects of community life that impact on the interests of the School and the discipline.

The School of Mathematics and Statistics has a total of 90 continuing teaching and/or research staff; 37 research only staff and consultants; 19 academic specialists and 16 support staff. In 2023, there were 143 Research Higher Degree and 189 Coursework Master of Science students. The School has had 10 staff members inducted as Fellows of the Academy of Science.

Infrastructure support for research and basic information technology facilities are provided to all members of the department. Special facilities such as high-end workstations and salaries for research fellows are supported through individual competitive external research grants. Members of the School have had considerable success at attracting support from the Australian Research Council. The school currently hosts one ARC Centre of Excellence and one ARC Industrial Transformation Training Centre, and has hosted four ARC Laureate Fellows, thirteen ARC Future Fellows and twenty-four DECRA Fellows.

It is one of the objectives of the University to develop and maintain a strong international profile. In this context, members of the School have strong collaborative links with colleagues worldwide.

5.2 FACULTY OF SCIENCE

http://www.science.unimelb.edu.au

Science at Melbourne is a global leader across fundamental and impactful scientific research and education. Science begins with curiosity, and we are dedicated to understanding the universe from the level of sub-atomic particles to the solar system. We aim to be leaders who positively impact the community locally and globally, addressing major societal issues from climate change to disease. Our discoveries help build an understanding of the world around us.

Our strength is our breadth of expertise. We are the second largest faculty in the University comprising seven schools: Agriculture, Food & Ecosystem Sciences, BioSciences, Chemistry, Geography, Earth & Atmospheric Sciences, Mathematics & Statistics, Physics and Veterinary Science.

This depth of knowledge positions the faculty to better understand, explore and impact our world and humanity, within a truly comprehensive Faculty of Science.

We have more than 150 years of experience in pioneering scientific thinking and analysis, leading to outstanding teaching and learning and offer a curriculum based on highly relevant research. We aim to train students with the knowledge and intellectual flexibility to drive the industries of tomorrow and lead across all levels of society.

We offer a range of undergraduate, honours, graduate and research degrees, enrolling more than 11,500 undergraduate and 3,750 graduate students.

We are dedicated to delivering leading transformative educational outcomes, underpinned by research, and an inclusive and inspiring student experience.

Excellence comes in many forms and diversity of thought, perspective and disciplines is essential to deliver globally leading science. At the core of our success is our focus on an inclusive environment for all in our community. Our Faculty's focus on equity, inclusion and belonging is grounded in our endeavour to ensure we are best placed to advance research, teaching and serve diverse national and global communities.

As a Science community we sit across five of the University's campuses – Parkville, Dookie, Burnley, Creswick and Werribee. This reach provides us with a unique perspective that is beneficial to our teaching and research. It also means we can offer our students a greater variety of learning experiences and internships to engage with industry partners to solve real-world issues.

The Faculty is custodian of the Bio21 Molecular Science and Biotechnology Institute, Melbourne Energy Institute, Melbourne Biodiversity Institute, Oceania Institute, Office for Environmental Programs, Australian Mathematical Sciences Institute (AMSI) and the Indigenous Knowledge Institute and home to numerous Centres.

5.3 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The main campus in Parkville is recognised as the hub of Australia's premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide-range of knowledge-based industries. With outstanding performance in international rankings, the University is at the forefront of higher education in the Asia-Pacific region and the world.

The University employs people of outstanding calibre and offers a unique environment where staff are valued and rewarded.

Further information about working at The University of Melbourne is available at http://about.unimelb.edu.au/careers

5.4 ADVANCING MELBOURNE

The University's strategic direction is grounded in its purpose. While its expression may change, our purpose is enduring: to benefit society through the transformative impact of education and research. Together, the vision and purpose inform the focus and scale of our aspirations for the coming decade.

Advancing Melbourne reflects the University's commitment to its people, its place, and its partners. Our aspiration for 2030 is to be known as a world-leading and globally connected Australian university, with our students at the heart of everything we do.

- ➤ We will offer students a distinctive and outstanding education and experience, preparing them for success as leaders, change agents and global citizens.

- ➤ We will be recognised locally and globally for our leadership on matters of national and global importance, through outstanding research and scholarship and a commitment to collaboration.

- ➤ We will be empowered by our sense of place and connections with communities. We will take opportunities to advance both the University and the City of Melbourne in close collaboration and synergy.

> ➢ We will deliver this through building a brilliant, diverse and vibrant University community, with strong connections to those we serve.

The means for achieving these goals include the development of the University of Melbourne's academic and professional staff and the capabilities needed to support a modern, world-class university. Those means require a commitment to ongoing financial sustainability and an ambitious infrastructure program which will reshape the campus and our contribution to the communities we engage with. This strategy, and the priorities proposed, is centred around five intersecting themes: place, community, education, discovery and global.

5.5 GOVERNANCE

The Vice Chancellor is the Chief Executive Officer of the University and responsible to Council for the good management of the University.

Comprehensive information about the University of Melbourne and its governance structure is available at https://about.unimelb.edu.au/strategy/governance