### Research Fellow Tropical Rainfall

<table>
<thead>
<tr>
<th>POSITION NO</th>
<th>0057916</th>
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<tbody>
<tr>
<td>CLASSIFICATION</td>
<td>Level A</td>
</tr>
<tr>
<td>SALARY</td>
<td>$80,258 - $108,906 p.a. (pro rata for part time) (*PhD entry level $101,460 p.a.)</td>
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<tr>
<td>SUPERANNUATION</td>
<td>Employer contribution of 17%</td>
</tr>
<tr>
<td>WORKING HOURS</td>
<td>Full-time (1.0 FTE)</td>
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<tr>
<td>BASIS OF EMPLOYMENT</td>
<td>Fixed term for 2 years</td>
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**FLEXIBLE EMPLOYMENT**

The Faculty of Science 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.

<table>
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<tr>
<th>OTHER BENEFITS</th>
<th><a href="https://about.unimelb.edu.au/careers/staff-benefits">https://about.unimelb.edu.au/careers/staff-benefits</a></th>
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<tr>
<td>HOW TO APPLY</td>
<td>Online applications are preferred. Go to <a href="http://about.unimelb.edu.au/careers">http://about.unimelb.edu.au/careers</a>, select the relevant option (‘Current Opportunities’ or ‘Jobs available to current staff’), then find the position by title or number.</td>
</tr>
</tbody>
</table>
| CONTACT FOR ENQUIRIES ONLY | Dr Claire Vincent  
Tel +61 3 8344 5993  
Email claire.vincent@unimelb.edu.au  
*Please do not send your application to this contact* |
Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of the unceded land on which we work, learn and live: the Wurundjeri Woi Wurrung and Bunurong peoples (Burnley, Fishermans Bend, Parkville, Southbank and Werribee campuses), the Yorta Yorta Nation (Dookie and Shepparton campuses), and the Dja Dja Wurrung people (Creswick campus).

The University also acknowledges and is grateful to the Traditional Owners, Elders and Knowledge Holders of all Indigenous nations and clans who have been instrumental in our reconciliation journey.

We recognise the unique place held by Aboriginal and Torres Strait Islander peoples as the original owners and custodians of the lands and waterways across the Australian continent, with histories of continuous connection dating back more than 60,000 years. We also acknowledge their enduring cultural practices of caring for Country.

We pay respect to Elders past, present and future, and acknowledge the importance of Indigenous knowledge in the Academy. As a community of researchers, teachers, professional staff and students we are privileged to work and learn every day with Indigenous colleagues and partners.

Position Summary

This is a 2-year fixed-term position focused on the multi-scale weather and climate influences on tropical Australian rainfall. We seek a highly qualified and motivated candidate with experience in using complex geophysical datasets and high-performance computing to examine processes and impacts in the tropics, with particular attention to extreme precipitation. The goal of this position is to understand and quantify the role of multi-scale interactions of climate modes in modulating extreme tropical rainfall in Australia.

This position is physically located within The University of Melbourne’s School of Geography, Earth and Atmospheric Sciences and funded by the Australian Research Council’s Centre of Excellence for Climate Extremes (CLEX). The incumbent will contribute to and benefit from being a part of the CLEX community. This position sits within the CLEX Weather and Climate Interactions research team and will collaborate with senior and postdoctoral researchers in that team and other CLEX programs.

Candidates seeking flexible or part-time work arrangements are encouraged to apply.

1.1 RESEARCH AND RESEARCH TRAINING

Under the guidance of Dr. Claire Vincent and other researchers within the Centre of Excellence for Climate Extremes, undertake internationally competitive research on weather and climate interactions leading to flooding rains in tropical Australia with an increasing degree of autonomy.

- Progress research on the role of the inter-scale interaction of climate modes on recent and historical extreme rainfall events in tropical Australia.
Examine the representation of the inter-scale interaction of climate modes and its impact on extreme rainfall in a variety of standard and experimental modelling systems.

Contribute to the understanding of scale-interactions in modulating the future extreme rainfall climate of tropical Australia.

Actively collaborate with other researchers in the Centre of Excellence for Climate Extremes on cross-disciplinary areas relating to drought and climate risk.

Assist with, contribute to and publish results in the peer-reviewed scientific literature

Contribute to national and international conferences in the appropriate fields

Contribute to and assist in the supervision of research students as appropriate

Engage with relevant professional and industry bodies and stakeholders to foster collaborative partnerships

1.2 LEADERSHIP AND SERVICE

Actively participate in School and Centre of Excellence meetings and with guidance and as appropriate, contribute to planning activities or committee work to support capacity building in the School/CLEX /discipline.

Contribute to, or present research to the public to elevate public awareness of educational and scientific developments, and promote critical enquiry and public debate within the community where appropriate

Effective demonstration and promotion of University values including diversity and inclusion and high standards of ethics and integrity

1.3 OTHER DUTIES

Perform other tasks as requested by the supervisor, as appropriate

Actively participate in the University Professional Development Framework

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 atmospheric science or a related discipline.

Demonstrated knowledge of tropical weather and climate systems.

A high level of computing skills, including the use of high-performance computing and the analysis of complex data sets.

A demonstrated capacity to publish in high quality peer-reviewed journals, with a strong publication record in relevant areas, commensurate with experience and opportunities.

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

Excellent ability to work co-operatively and positively in a multi-disciplinary research-based team environment and liaise with people from diverse backgrounds.

Demonstrated excellent organisational skills to meet deadlines and bring projects to a timely completion
2.2 DESIRABLE

- Potential or demonstrated capacity to engage with project partners and external stakeholders
- A record of publication in peer-reviewed international journals
- Prior experience publishing datasets and/or code.
- Demonstrated knowledge of appropriate statistical techniques for analysing large multi-scale and multi-dimensional datasets.
- Demonstrated experience in communicating scientific results to stakeholders, the wider community or media.

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 GEOGRAPHY, EARTH AND ATMOSPHERIC SCIENCES

The School of Geography, Earth and Atmospheric Sciences was formally established in 2021, following the merger of the Schools of Geography and Earth Sciences. The new School synergises discipline strengths in geography, atmospheric science and geoscience. The School offers undergraduate and graduate research programs in these core discipline areas, and in the multi-disciplinary fields of Climate Change, Environmental Science and Archaeological Science. The research within the School is built upon extensive expertise in geography, geoscience and atmospheric science, ranging from the social sciences through to the quantitative physical sciences. In addition to internationally recognised discipline expertise, we have strengths in a number of multi-disciplinary areas including: climate change; resource futures; space, place and social change; environmental hazards; Indigenous knowledge; and Earth system interactions. With strengths in both the spatial (local to global) and temporal (deep time as well as recent) dimensions of environmental change, the School is committed to achieving a better future for our students, society and the environment. We are committed to advancing reconciliation with Indigenous Australians through involvement with the Indigenous Knowledges Institute which is hosted within the Faculty of Science, research and teaching partnerships with Indigenous communities, and archaeological science. The School contributes strongly to the key areas of Place, Community, Education, Discovery, and Global in the University’s Advancing Melbourne Strategy.

The School of Geography, Earth and Atmospheric Sciences operates world-class analytical facilities including a range of mass spectrometers for isotopic and (ultra-) trace element analysis partly housed in clean laboratories, and designated isotope geochemistry, trace element geochemistry, geochronology, noble gas and thermochronology laboratories. An electron microprobe, a micro-CT scanner and other analytical equipment are part of a university-wide analytical platform (TrACEES).

This position will be embedded within the School’s Climate and Weather theme, which is an active group focusing on many aspects of meteorology and climate science. Of particular relevance for this position is the School’s involvement in the Australian Research Council’s Centre of Excellence for Climate Extremes (http://www.climateextremes.org.au). The Centre is led by UNSW Sydney and partners with Monash, The University of Melbourne, The Australian National University and The University of Tasmania alongside a suite of national and international partner organisations. The Centre works to improve our understanding of the processes that trigger or enhance extremes and build this understanding into our modelling systems. The improved predictions of climate extremes will help Australia cope with extremes now and in the future. The Centre’s research agenda encompasses interconnected research programs focused on Weather and Climate Interactions, Drought, Detection and Attribution of Extreme Events and Ocean Extremes. CLEX is a major seven-year initiative funded by the Australian Research Council. The ARC Centre of Excellence for Climate Extremes provides a supportive and enriching workplace for its staff and students through its strong commitment to equity, diversity and inclusion and wellbeing initiatives.

5.2 FACULTY OF SCIENCE

https://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, 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