



MACQUARIE
University
SYDNEY · AUSTRALIA

Accelerate your ambition

HIGHER DEGREE RESEARCH | 2018



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PHOTOS: All photos by Chris Stacey unless otherwise noted.

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COVER PHOTO: Simon Klein, cotutelle candidate between Macquarie University and University of Toulouse, France; and Associate Professor Andrew Barron, Department of Biological Sciences, Macquarie University.

Simon Klein: "My research is in line with the current concern of pollinator decline. While most studies so far have focused either on colony or populational level (pollinators diversity decline), or at particularly detailed ecotoxicological studies, such as response survival rate of stressed individuals, not a lot of work has been done to understand the effect of stressors on social insects via the individual's contributions changes. My work aims to firstly analyse the variability of foraging contributions we find in a natural situation both in bumblebee and in honeybee populations. To do so, I have recorded the individual foraging behaviour of thousands of individuals using radio frequency identification technology as well as weighing balances and camera to follow the foraging efficiency of the bees along their life. This allowed me to discover that honeybee foragers vary greatly among each other, and that it is mainly based on their age on their first foraging day. The second half of my PhD is aiming to look at the impact of stressors on such variation of behaviour. I am researching under the supervision of Dr Andrew Barron from the Department of Biological Sciences. I have access to a bee yard in the Fauna Park and to a brand new wet lab."

Associate Professor Andrew Barron: "The great advantage of a cotutelle is that it allows a student's research to be supported by two labs. This makes for not only an exciting research collaboration for everyone, but also an enhanced research training environment for the students."

FOREWORD

Macquarie is an international university with a proud reputation for world-leading research. As one of Australia's premier teaching and research institutions, Macquarie University is your best choice for a higher degree research program. If you complete your higher degree research at Macquarie, you will be rewarded with an exceptional research training experience in an environment of the highest quality.

Macquarie's commitment to world-leading research with world-changing impact has been recognised in the results we achieved under the Australian Government's most recent Excellence in Research for Australia evaluation. Results from the evaluation highlighted Macquarie's impressive research profile, with 100 per cent of our research ranked as performing at world standard or higher.

Macquarie's Strategic Research Framework (2015–2024) has firmly established the University's commitment to world-leading research with world-changing impact. We are intent on building and reinforcing areas of research strength that provide solutions to the world's most pressing problems.

Our considerable research expertise is focused on the priorities of Healthy People, Resilient Societies, Prosperous Economies, Secure Planet and Innovative Technologies. These priorities are buttressed by four research objectives: accelerate world-leading research performance, prepare world-ready higher degree research candidates, engage as a world-recognised collaborator of choice and deliver research with world-changing impact.

As a potential candidate, our second objective – prepare world-ready higher degree research candidates – is the key that unlocks opportunities and places you at the forefront of our research vision. Under this objective, we attract candidates of the highest potential, and through this objective we will provide you with outstanding supervision, superior mentoring and an exceptional placement within one of our areas of research strength.

Macquarie aims to provide opportunities for career-enhancing exposure to industry, government and communities, and will ensure our degrees are internationally aligned and globally relevant. Macquarie's commitment to international research excellence is exemplified by our research training program – Master of Research – which is fully aligned with research training in Asia, Europe and North America. We were the first university in Australia to align internationally, and you can rely on Macquarie to ensure you have greater international recognition for your qualifications.

At Macquarie, we value our higher degree research candidates as a key asset of the University, and we recognise the vital contribution our research candidates make to the University, to the nation and to the world. One way we show our appreciation to you is through our research excellence scholarship program. To encourage excellence in higher degree research, we have expanded this program to enable well-prepared candidates to undertake doctoral studies at Macquarie.

I readily welcome your interest in undertaking a higher degree research program at Macquarie University and urge you to contact our staff to investigate the opportunities. At Macquarie, you will gain an advanced research degree of the highest international standing, and we will support you every step of the way.

Professor Sakkie Pretorius
DEPUTY VICE-CHANCELLOR (RESEARCH)

Macquarie is bold and innovative, and although relatively young – 53 years since foundation – we have earned an enviable reputation for research excellence.

A proud tradition of discovery

RESEARCH AT MACQUARIE

Our framework for the future – world-leading research with world-changing impact – is brought to life by renowned researchers whose intrepid solutions to issues of global significance are benefiting the world we live in.

Recognised globally for our pre-eminence in key research disciplines, we pursue excellence in a broad range of research areas, including in those that are cross-disciplinary.

In applying our research, our discoveries translate into real improvements for local, national and global communities. Discoveries such as wi-fi – which our researchers co-developed with CSIRO – and discoveries yet to come, such as cures for motor neurone disease and Parkinson's disease.

In looking to the future, we have developed five research priorities that provide a focal point for the cross-disciplinary research approach that is at the heart of our ethos.

These priorities are Healthy People, Resilient Societies, Prosperous Economies, Secure Planet and Innovative Technologies.

We are ranked among the highest-performing research universities in Australia. In the 2015 Excellence in Research for Australia (ERA) evaluation, we achieved the maximum 5 rating – outstanding performance well above world standard – in agricultural and veterinary sciences, environmental sciences and physical sciences. In total, 100 per cent of our research activity was rated as performing at world standard or higher at the 2-digit level.

Macquarie is also ranked among the top 50 institutions in the world for linguistics, and among the top 100 for accounting and finance, communication and media studies, development studies, earth and marine sciences, education, English language and

literature, geography, philosophy and psychology (QS World University Rankings by Subject, 2017).

Additionally, according to Thomson Reuters Web of Science 2008–2012, Macquarie is among the top six universities in Australia for international research collaboration.

By undertaking a research degree at Macquarie, you'll have the opportunity to make an important contribution to the development of new knowledge, work alongside world-leading researchers and utilise some of the region's most outstanding facilities.



Since 1964, Macquarie has been doing things differently. This is what we look like today.

Pursuing excellence

MACQUARIE AT A GLANCE

 <p>5 future-shaping research priorities</p>	 <p>14 research themes and 69 research streams</p>
 <p>\$1 BILLION invested in infrastructure and facilities in recent years</p>	 <p>\$32 MILLION invested in higher degree research scholarships as of 2015</p>
 <p>FIRST university in Australia to introduce the Master of Research</p>	 <p>MORE THAN 150 researchers have published research that is in the top 1% of publications worldwide</p>
 <p>LEAD INSTITUTION for two ARC Centres of Excellence and a major node in three</p>	 <p>219 countries have benefited from research collaborations with Macquarie since 2011</p>
 <p>\$190 MILLION in research funding received from 2014 to 2016</p>	 <p>MORE THAN 30 researchers in the top 1% of scientific authors in the world</p>
 <p>1 OF ONLY 2 universities in Australia rated at the highest level for environmental sciences research in all three ERA evaluations</p>	 <p>1 OF ONLY 4 universities in Australia rated at the highest level for physical sciences research in all three ERA evaluations</p>

Macquarie's innovative approach to cross-disciplinary and translational research, as well as our commitment to excellence with impact, delivered outstanding results in the 2015 Excellence in Research for Australia evaluation.

A new ERA for Macquarie's researchers

EXCELLENCE IN RESEARCH FOR AUSTRALIA

Excellence in Research for Australia (ERA) is an Australian Government initiative that evaluates the quality of research being conducted by Australia's higher education institutions, with research quality evaluated in groups defined by two-digit and four-digit Field of Research (FoR) codes and rating them on a five-point scale.

Macquarie achieved a stellar performance at the two-digit level in agricultural and veterinary sciences, environmental sciences and physical sciences, with each being rated 5/5 – well above world standard.

Additionally, biological sciences; earth sciences; history and archaeology; language, communication and culture; law and legal studies; mathematical sciences; medical and health sciences; philosophy and religious studies; and psychology and cognitive sciences were rated 4/5 – above world standard.

In total, 100 per cent of Macquarie's research activity was rated as performing at world standard or higher at the two-digit level.

The ERA ratings are a vital indicator of Australia's research excellence and performance. Macquarie's results show that taking a collaborative and innovative approach – with a focus on how research improves lives – pays off.

Our varied research strengths – from environmental sciences, agriculture and astronomy to quantum physics, clinical sciences and philosophy – will do much to address some of the world's most pressing issues, in areas including food security, climate change, chronic diseases and mental health.

ERA 5s
MACQUARIE TWO-DIGIT 5s
Agricultural and veterinary sciences
Environmental sciences
Physical sciences
MACQUARIE FOUR-DIGIT 5s
Astronomical and space sciences
Atmospheric sciences
Clinical sciences
Ecology
Environmental science and management
Evolutionary biology
Genetics
Neurosciences
Oncology and carcinogenesis
Optical physics
Physical geography and environmental geoscience
Plant biology
Pure mathematics
Quantum physics



“Why do some female spiders cannibalise their mates? Why are there more species of sexually deceptive orchids in Australia than elsewhere? What is the function of the colourful markings on so many insects and spiders? These are some of the questions that I address in my research. I have held a fascination for the behaviour of insects and spiders for almost 20 years. My research combines a passion and persistence to understand the natural world around me with the theoretical and technical skills to generate robust answers.

I started supervising honours, masters and PhD students when I came to Macquarie in 2001. I was incredibly lucky with my first PhD students, who formed the nucleus of the Behavioural Ecology group with me. I have since successfully supervised 15 PhDs and two masters students to completion, and four have received the Vice-Chancellor's recommendation for their outstanding theses.

I thoroughly enjoy the collegiate collaboration with my students and am very keen to invite and welcome students from diverse backgrounds to join my research group.”

Professor Mariella Herberstein
CHAIR, ACADEMIC SENATE

MACQUARIE'S ERA RATINGS

100 per cent of research rated by ERA 2015 at or above world standard at the two-digit level

Achieved a 5 rating in the two-digit areas of physical sciences and environmental sciences across all three ERA rounds (2010, 2012, 2015)

Achieved a 5 rating for oncology and carcinogenesis – a research area assessed for the first time

Achieved a 5 rating for agricultural and veterinary sciences – a research area assessed for the first time

Achieved a 5 rating in neurosciences (up from 1 in 2012)

One of only a few universities to have all two-digit units of evaluation rated at 3, 4 and 5

Among the top five universities in atmospheric sciences, applied ethics, and agricultural and veterinary sciences

Among the top six universities to achieve a 5 rating for pure mathematics

Among the top seven universities in computation theory and mathematics

Among the top eight universities in genetics, and oncology and carcinogenesis

We are an open, engaged and audacious research community with ambitious research endeavours. Such endeavours – which seek to expand the frontiers of knowledge for the betterment of the world at large – are driven by four key objectives, designed to connect our faculties, researchers and higher degree research candidates with Macquarie’s research-intensive aspirations.

Driving the research agenda

OUR RESEARCH OBJECTIVES



PREPARE WORLD-READY HIGHER DEGREE RESEARCH CANDIDATES

“My research revolves around biomarker discovery for cancer, especially prostate cancer, which has the highest occurrence rate of any cancer in the male population at 42 per cent. I hope to find new and more selective markers to minimise false-positive results and unnecessary surgery. With these markers, a better therapy and early detection should be possible. To do this I mainly use mass spectrometry, which is a rapidly growing field in medicine, as it is much more selective than any antibody test. I conduct most of my research on campus at the Australian Proteome Analysis Facility under the supervision of Associate Professor Mark Molloy.”

Pascal Steffen

JOINT PHD CANDIDATE
INTERNATIONAL MACQUARIE
UNIVERSITY RESEARCH EXCELLENCE
SCHOLARSHIP RECIPIENT
UNIVERSITY OF HAMBURG, GERMANY



DELIVER RESEARCH WITH WORLD-CHANGING IMPACT

“I am researching the broad concept of women empowerment, focusing specifically on the impacts of cash transfer programs – a new genre of poverty reduction – on households made up of women and children. These programs are not only a tool for poverty reduction but are also used to promote women empowerment, as the benefits or cash transfers are given to the woman of the house. In my Master of Research thesis, I estimated the impacts of Pakistan’s National Cash Transfer Program (BISP) on women. I used three domains of women empowerment, including access and control over resources, decision making and mobility, and found that the women who receive cash transfers are making more sole and joint decisions, and are more economically active in comparison to women who do not receive BISP. My PhD is further extending this research, as current literature gives no insight into how impacts might differ in the social and cultural context of South Asia. My research, therefore, will fill this gap and provide important insights for policy makers to design poverty reduction programs that can maximise welfare for beneficiary households.”

Asma Kashif

MASTER OF RESEARCH GRADUATE AND
CURRENT PHD CANDIDATE
INTERNATIONAL MACQUARIE UNIVERSITY
RESEARCH EXCELLENCE SCHOLARSHIP RECIPIENT
PAKISTAN

ACCELERATE WORLD-LEADING RESEARCH PERFORMANCE

“Social interactions are a central part of our daily lives but are characteristically challenging for many people with autism. Little is understood about why these difficulties emerge and what can be done to improve social functioning in autism. This is because social abilities are difficult to realistically assess in controlled experimental contexts. In my research, I have been innovating new eye-tracking and virtual reality methods that can allow us to validly investigate social interactions in controlled laboratory or neuroimaging environments. I applied this approach in several studies using electroencephalography and functional magnetic resonance imaging techniques to investigate the brain mechanisms that support our ability to coordinate interactions with others. Most significantly, I also examined specific cognitive explanations for difficulties in social interaction and coordination in adults with autism. Understanding the mechanisms of social interaction and the precise aspects that are impaired in autism is crucial in guiding how we can help individuals with autism find social interactions more accessible and less anxiety-provoking.”

Dr Nathan Caruana

PHD GRADUATE
POSTDOCTORAL RESEARCH FELLOW,
ARC CENTRE OF EXCELLENCE IN
COGNITION AND ITS DISORDERS
DAVID HALL PRIZE RECIPIENT, BEST PHD THESIS
IN THE FACULTY OF HUMAN SCIENCES, 2016
VICE-CHANCELLOR'S COMMENDATION FOR
ACADEMIC EXCELLENCE, 2016. DISSERTATION
RANKED IN TOP FIVE PER CENT OF FIELD
AUSTRALIA



ENGAGE AS A WORLD-RECOGNISED RESEARCH COLLABORATOR OF CHOICE

“The occurrence of distant metastases greatly reduces or even removes the possibilities of curative treatment for cancer patients. The ability to predict and diagnose the onset of secondary tumours is one of the key questions in cancer research. It is also crucial to explore the mechanisms of metastasis to choose the most efficient treatment approach. I am working with Associate Professor Andrei Zvyagin and his group, whose aim is to develop organ-specific models of chicken embryos and study breast cancer invasion in different organs. In particular, my research is focused on developing a reliable and realistic mathematical model describing the process of metastases onset.”

Vlada Rozova

COTUTELLE PHD CANDIDATE
INTERNATIONAL MACQUARIE UNIVERSITY RESEARCH
EXCELLENCE SCHOLARSHIP RECIPIENT
LOBACHEVSKY STATE UNIVERSITY OF NIZHNI
NOVGOROD, RUSSIA



Enhance your employment opportunities and get international recognition for your qualifications.

Your path to higher degree research

MASTER OF RESEARCH



The Master of Research – regarded by the Australian Council of Learned Academies as the most innovative, newly developed research entry pathway – provides you with intensive research preparation before you begin doctoral study. Consistent with the internationally recognised Bologna model, the program prepares you to complete a Doctor of Philosophy (PhD) in three years – well short of the national average.

PROGRAM STRUCTURE

The two-year program is available in all of Macquarie’s research areas, allowing you access to a variety of disciplines, so you can construct a program relevant to your specific interests, subject to academic approval.

In the first year, you’ll undertake advanced coursework units including the study of research frontiers in your area of study. If you successfully complete Year 1 and decide not to continue, you can exit the program with a Bachelor of Philosophy.

The second year is a masters-level postgraduate research training program. You’ll specialise in research preparation and focus on a specific research topic. You’re required to submit a thesis of 20,000 words for completion.

mq.edu.au/research/master-of-research
mq.edu.au/mres-advisers

ADMISSION REQUIREMENTS

You must have a bachelor degree from a recognised institution at a specified level of performance – usually the equivalent of a credit average (65 per cent) in your final year (or 300-level). Some disciplines may have extra admission requirements, such as a portfolio of work or a higher level of performance of bachelor study. If you hold an honours degree or a masters degree, you may apply for Recognition of Prior Learning (RPL) of up to 32 credit points (Year 1). This may allow you to complete the Master of Research in less than two years.

EXCHANGE PROGRAM

The Master of Research Exchange Program provides you with opportunities to undertake international experiences during your studies. If you continue on to a PhD, opportunities include research collaboration with international universities under our cotutelle and joint PhD programs.

MASTER OF PUBLIC HEALTH

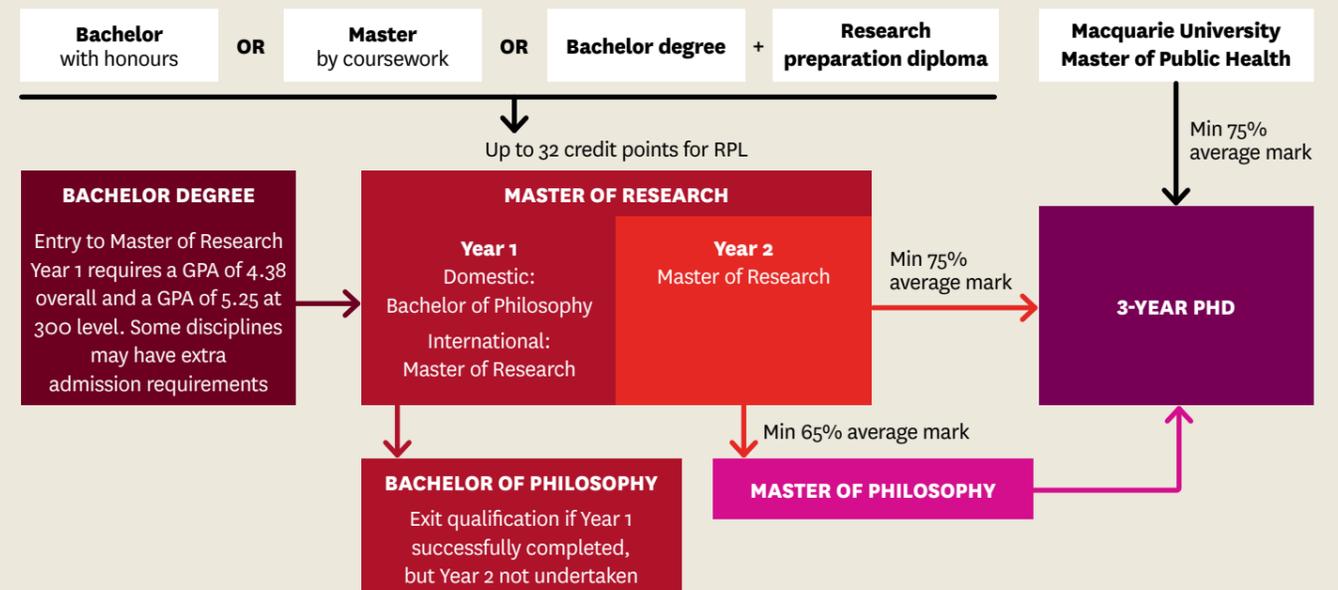
Completion of Macquarie’s Master of Public Health with a research specialisation can see you progress directly to PhD studies (with appropriate academic performance). This innovative, interdisciplinary and future-focused course will prepare you for a dynamic career dedicated to preventing disease, promoting health and addressing health-related issues in our globalised world. By opting to complete the research specialisation, you’ll design your own year-long public health research project.

Above Hai Yen Vu, Master of Research graduate and current PhD candidate from Vietnam, and VIED (Vietnam Government) co-funded scholarship recipient, is researching effective English language teaching in Vietnam under the supervision of Associate Professor Stephen H Moore.

Above Pablo Dias, cotutelle PhD candidate from Universidade Federal do Rio Grande do Sul, Brazil, is researching electronic waste, with a particular focus on how efficient Australia’s and Brazil’s processes for recycling are, under the supervision of Dr Nazmul Huda.

Above Joanna Vogeley, Master of Research graduate and current PhD candidate from Australia, is researching social entrepreneurship in the developing world under the supervision of Associate Professor Debbie Haski-Leventhal. She is specifically seeking to fill the research gap in terms of linking certain cultural theories to the income investment performance of social enterprises.

Pathway to a PhD



Be part of a research community seeking solutions to the complex issues that define humanity now and in the future. Having acquired a passion for research while undertaking masters-level study, you are primed to progress your research pathway by commencing the Doctor of Philosophy or Master of Philosophy.

Change your future

DOCTOR OF PHILOSOPHY AND MASTER OF PHILOSOPHY

DOCTOR OF PHILOSOPHY

The Doctor of Philosophy (PhD) enables you to undertake extensive, independent research that forms a distinct contribution to the knowledge of your chosen subject. Your work should afford evidence of coherence and originality shown by the discovery of new facts.

Successful progression to a PhD from the Master of Research is conditional upon availability of appropriate supervision and resources, submission of a PhD research proposal and your suitability to undertake higher degree research.

MASTER OF PHILOSOPHY

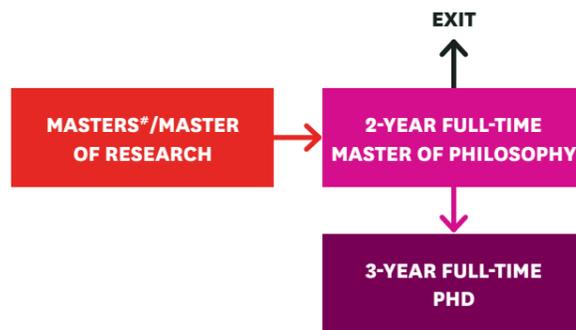
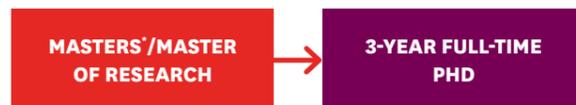
The Master of Philosophy is awarded for research that contributes to knowledge in a particular field of study by presenting new facts or by demonstrating an independent critical ability to evaluate existing material in a new light. You may be eligible to upgrade from the Master of Philosophy to a PhD, with time spent on the Master of Philosophy counting towards the total candidature of the PhD.

For either program, your research will be supervised by at least two academics and will normally be carried out on campus. There is, however, provision for you to carry out some of your program off campus with academic approval.

The University rules for research degrees can be found in the *Calendar of Governance, Legislation and Rules*.
universitycouncil.mq.edu.au/legislation.html

INTELLECTUAL PROPERTY
staff.mq.edu.au/work/intellectual-property

RESEARCH INTEGRITY AND ETHICS
mq.edu.au/research/integrity-and-ethics



DIRECT ENTRY ADMISSION REQUIREMENTS AND PROGRAM SNAPSHOT

DOCTOR OF PHILOSOPHY mq.edu.au/doctor-of-philosophy	MASTER OF PHILOSOPHY mq.edu.au/master-of-philosophy
<ol style="list-style-type: none"> Completed Macquarie's Master of Research with at least 75 per cent in Year 2 or Completed a Master of Philosophy or Completed a masters (at least two years) from another institution with a major research component (approximately 50 per cent thesis, 20,000 words) at distinction level (75 per cent or greater). 	<ol style="list-style-type: none"> Completed Macquarie's Master of Research with at least 65 per cent in Year 2 or Completed a masters (at least two years) from another institution with a major research component (approximately 50 per cent thesis, 20,000 words) at credit level (65 per cent or greater).
Additionally, all other peer-reviewed research output may be taken into consideration under Rule 7 (10) of Macquarie's higher degree research rules.	Additionally, all other peer-reviewed research output may be taken into consideration under Rule 7 (10) of Macquarie's higher degree research rules.
*If you haven't completed the Master of Research and do not meet the above criteria, you may be asked to undertake the degree as a research training pathway to the PhD. If you've previously studied at bachelor honours or masters level, you may receive credit towards the Master of Research of up to 50 per cent of the program.	*If you haven't completed the Master of Research and do not meet the above criteria, you may be asked to undertake the degree as a research training pathway to the Master of Philosophy. If you've previously studied at bachelor honours or masters level, you may receive credit towards the Master of Research for up to 50 per cent of the program.
The period of candidature is three years, full-time equivalent.	The period of candidature is two years, full-time equivalent.
Depending on your area of study, you are required to submit a thesis of 75,000 to 100,000 words.	You are required to submit a thesis of 50,000 words.



“My research comprises the generation of early continental crust and the affiliated onset of modern plate tectonics. A great portion of the early earth’s crust is built up by so called TTG (trondhjemite-tonalite-granodiorite) suites. Their formation process is assumed to reflect the main tectonic mechanisms of the early earth, and are at the centre of a forty-year-long debate.

Until now, most research has focused on finding the source rock material, which is then experimentally melted in the laboratory under various temperature and pressure conditions to determine the conditions to make TTGs. In my PhD, I will investigate the TTG suite itself with equilibrium melting experiments to constrain their formation depth and mutual relationships, respectively to their joint evolution. The results will be set into perspective by integration in geodynamic models.”

Alexander Wellhäuser

JOINT FIRST TRILATERAL PHD CANDIDATE IN A PARTNERSHIP BETWEEN MACQUARIE UNIVERSITY; GEORG-AUGUST UNIVERSITY, GÖTTINGEN, GERMANY; AND NANJING UNIVERSITY, CHINA

INTERNATIONAL MACQUARIE UNIVERSITY RESEARCH EXCELLENCE SCHOLARSHIP RECIPIENT
GERMANY

Follow the leader

COTUTELLE AND JOINT PHD

Spread your wings internationally and gain a research experience like no other. Macquarie’s global perspective is at the heart of everything we do. Deep continuing relationships with international research universities through joint research candidate supervision is a priority.

Macquarie is proud to have high-quality research training partnerships with universities in Asia, the United Kingdom, Europe, the United States and South America. We have hosted more than 300 cotutelle and joint PhD candidates from more than 110 universities across 30-plus countries.

JOINTLY SUPERVISED PHD PROGRAMS

Macquarie participates in two modes of international co-enrolment – cotutelles and joint degrees – with universities whose research activity strongly aligns with ours. Under both joint supervision models, you are enrolled at two universities with a principal supervisor at each. You will spend around 50 per cent of your candidature at each university.

mq.edu.au/cotutelle-and-joint-phd

RESEARCH COLLABORATOR OF CHOICE

Macquarie is the first non-European university to be accepted as a partner in the International Doctorate for Experimental Approaches to Language and Brain (IDEALAB) consortium. Partners include the Universities of Groningen, Newcastle, Potsdam and Trento.

em-idealab.com/consortium.html

INTERNATIONAL FUNDING OPPORTUNITIES

Macquarie’s global perspective – executed through partnership and collaboration – has created funding opportunities with some of the world’s leading funding bodies, including:

- **CSC:** China Scholarship Council
- **CONICYT:** National Commission for Scientific and Technological Research, Chile
- **CONACYT:** National Council of Science and Technology, Mexico
- **DAAD:** German Academic Exchange Service
- **European Commission:** Erasmus+ Programme
- **BOLASHAK:** JSC Center for International Programs, Kazakhstan
- **HEC:** Higher Education Commission, Pakistan
- **VIED:** Vietnam International Education Development
- **ANII:** National Agency for Research and Innovation, Uruguay.

mq.edu.au/externally-funded-scholarships

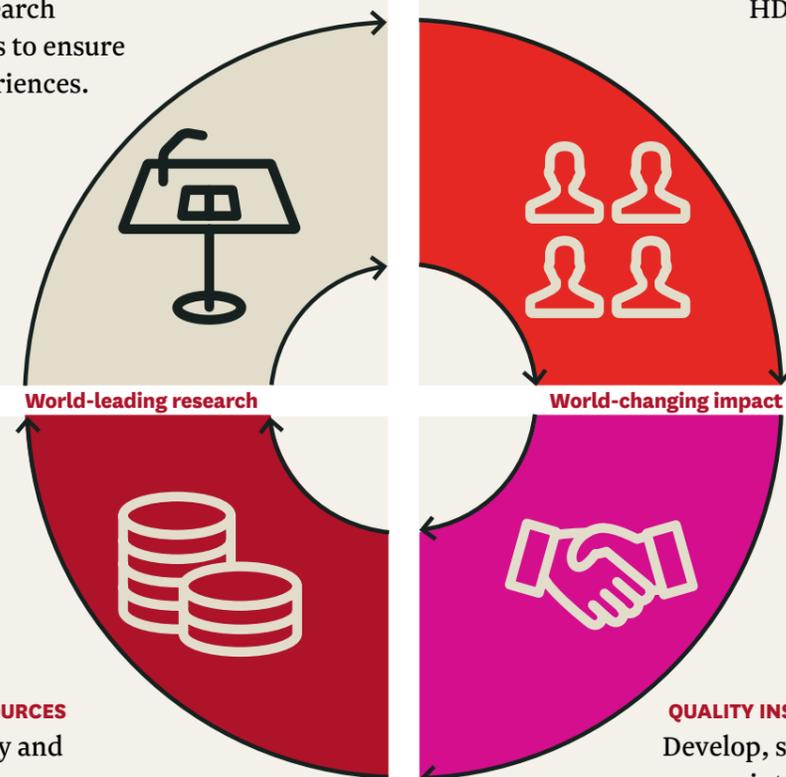
IRTP* framework: Objectives, goals and key targets

QUALITY PROGRAMS AND EXPERIENCES

Develop, maintain and partner with leading international research training programs to ensure outstanding experiences.

QUALITY CANDIDATES

Attract, develop and retain international HDR candidates of the highest quality.



QUALITY FUNDING SOURCES

Expand the quality and number of funding sources to support international research training.

QUALITY INSTITUTIONAL PARTNERS

Develop, secure and maintain international research training partnerships* with world-leading research institutions.



Key foundation

INTERNATIONAL RESEARCH TRAINING PARTNERSHIPS

*Since 1999

#Macquarie – Fudan – Hamburg, Jilin – Macquarie – Justus Liebig and Nanjing – Göttingen – Macquarie

<p>300+ cotutelle and joint PhD candidates*</p>	<p>110+ cotutelle and joint PhD collaborating partners*</p>	<p>30+ countries involved in cotutelle and joint PhD arrangements*</p>	<p>168 cotutelle candidate completions*</p>	<p>75 priority partners in 21 countries (and 68 preferred partners)</p>	<p>3 regional partnership tiers – strategic, developing and emerging</p>	<p>25 disciplines involved in current programs</p>	<p>41 universities with Academic Senate approval for joint PhDs</p>
<p>135 current cotutelle and joint PhD candidate enrolments</p>	<p>68% of current candidates with European universities</p>	<p>21% of current candidates with Chinese universities</p>	<p>10 MRes exchange partners established (a path to cotutelle/joint PhD)</p>	<p>3 strategic trilateral partnerships: MQ-FU-HAM, JLU-MQ-JLU and NU-UG-MQ*</p>	<p>ONLY Australian university participating in IDEALAB joint PhD</p>	<p>15 joint funding agreements with key international funding agencies</p>	<p>35 IDEALAB PhD candidates (including 30 current enrolments)</p>

Demonstrate your research talents and be rewarded for your efforts. With a proven capacity for research, you may be eligible to receive one of Macquarie's scholarships.

Funding your potential

HIGHER DEGREE RESEARCH SCHOLARSHIPS

BACHELOR OF PHILOSOPHY AND MASTER OF RESEARCH SCHOLARSHIPS

First-year, full-time domestic candidates receive a tax-free scholarship stipend of \$4000 in Session 1. To receive a further \$4000 in Session 2, a grade of 65 or above for Session 1 must be obtained. Eligibility for a Year 2 stipend will be determined through a competitive ranking process based on performance in all Year 1 units. Newly commencing direct-entry Year 2 Master of Research candidates are also competitively ranked for scholarship.

Macquarie also offers a limited number of scholarships to international Master of Research candidates through the competitive Australian Government and International Macquarie University Research Excellence Scholarship (IRTP/IMQRES) round each year. Successful applicants may receive a tailored bundle offer that includes entry to the Master of Research program and a provisional offer for a PhD.

On successful completion of the Master of Research program, domestic and international candidates are competitively ranked based on performance. Three-year full-time PhD scholarships are awarded to the highest-rated candidates.

mq.edu.au/scholarships/master-of-research

PHD SCHOLARSHIPS MACQUARIE UNIVERSITY RESEARCH EXCELLENCE SCHOLARSHIP (MQRES)

A tax-free stipend at the Research Training Program (RTP) rate is available to domestic candidates for up to three years of full-time on-campus study.

INTERNATIONAL MACQUARIE UNIVERSITY RESEARCH EXCELLENCE SCHOLARSHIP (IMQRES)

A tax-free stipend at the Research Training Program (RTP) rate will be matched with tuition fees coverage for international candidates for up to three years of full-time on-campus study.

CO-FUNDED IMQRES

An individually packaged scholarship is available to China Scholarship Council award holders and other externally funded award holders. Cotutelle and joint PhD candidate packages include a return economy airfare between partner universities, a tax-free stipend while at Macquarie and up to three years tuition funding.

POSTGRADUATE RESEARCH FUND

Up to \$5000 of additional funding is offered on a competitive basis.

AUSTRALIAN GOVERNMENT-FUNDED SCHOLARSHIPS RESEARCH TRAINING PROGRAM (RTP)

A tax-free stipend is available to domestic candidates of exceptional research promise for up to three years of full-time study.

INTERNATIONAL RESEARCH TRAINING PROGRAM (IRTP)

Available to high-calibre international candidates, the IRTP covers tuition fees for up to three years, as well as overseas health cover. Successful candidates will also be provided with a tax-free living allowance equivalent to the Research Training Program (RTP) stipend.

OTHER GOVERNMENT AWARDS

Australia Awards are prestigious international scholarships and fellowships funded by the Australian Government, offering the next generation of global leaders an opportunity to undertake study, research and professional development.

australiaawards.gov.au

EXTERNALLY FUNDED SCHOLARSHIPS

Externally funded scholarships support domestic students who are planning to conduct research outside Australia. These include Endeavour Scholarships, Fulbright Postgraduate Scholarships, John Monash Scholarships, Sir Robert Menzies Memorial Scholarships and Rhodes Scholarships. Other scholarships fund research in specific areas.

MACQUARIE UNIVERSITY INDIGENOUS RESEARCH PATHWAY PROGRAM

This program provides scholarship support to Indigenous Australians who wish to enrol in the Master of Research, Master of Philosophy or Doctor of Philosophy.

Successful scholarship recipients will be expected to have a record of excellent academic performance, a history of scholarship or prizes at undergraduate or postgraduate level, and evidence of peer-reviewed research, such as publications or conference presentations.

mq.edu.au/research/scholarships



Top left Sijia Chen, Co-funded China Scholarship Council and International Macquarie University Research Excellence Scholarship recipient, from China

Top Centre Maria Kovaleva, Research Training Program (RTP) scholarship recipient, from Australia

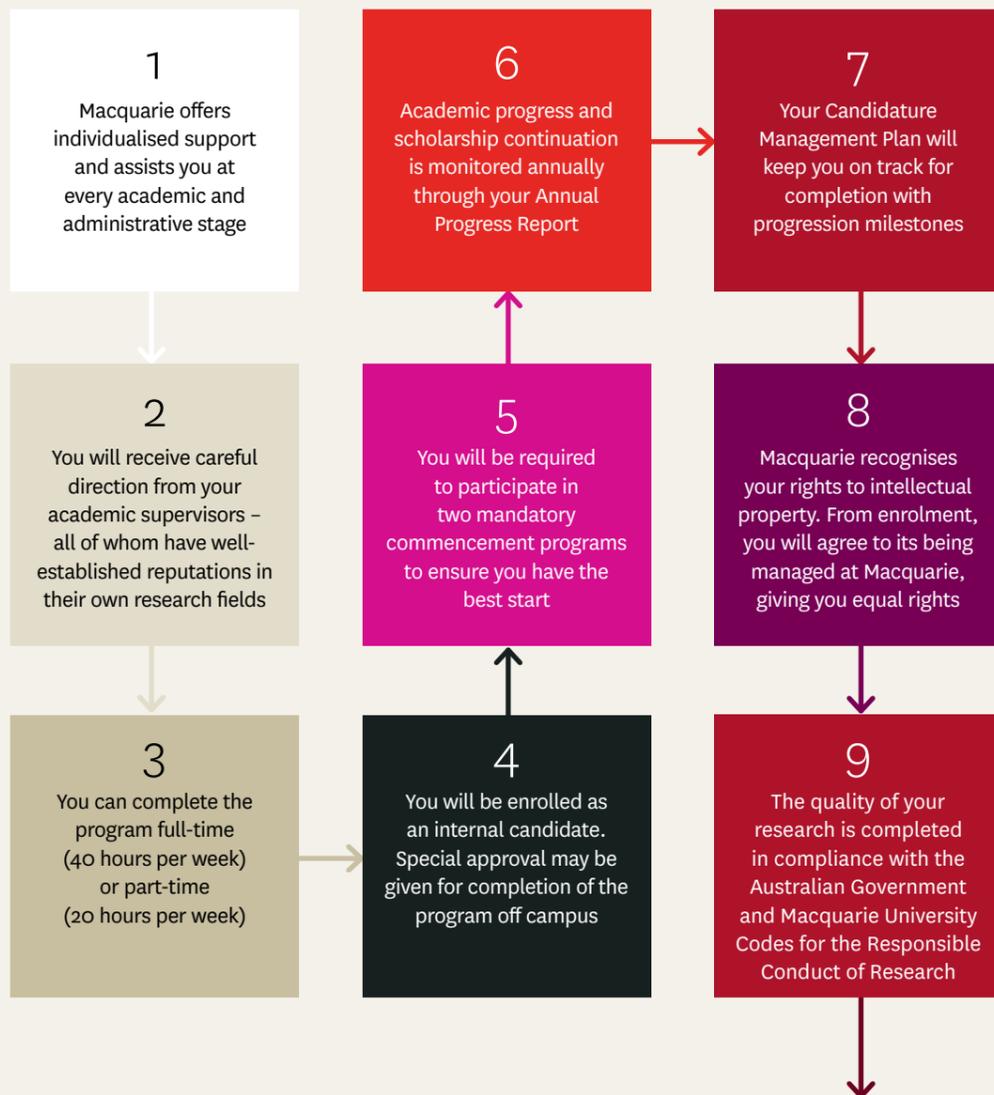
Above Michael Nugent, Macquarie University Research Excellence Scholarship and Indigenous Research Pathway Program scholarship recipient, from Australia

Left Serena Purdy, International Macquarie University Research Excellence Scholarship recipient, from Canada

Macquarie is proud of its nurturing environment and will be with you throughout your journey.

Embark on a research journey

HIGHER DEGREE RESEARCH CANDIDATURE



“The Queensland fruit fly presents the most difficult and costly insect pest management challenge for Australia’s \$8 billion per annum horticultural industries. As insecticides that have protected crops for decades are now greatly restricted, Australia’s major southern horticulture regions are now greatly threatened. A new factory in South Australia produces more than 50 million sterile flies every week, which will be released into the environment to disrupt reproduction of pest populations. I have designed a new high-productivity larval diet that will be used to produce the millions of flies needed for this nationally important ‘Sterile Insect Technique’ facility.”

Tahereh Moadeli
 MASTER OF RESEARCH GRADUATE AND CURRENT PHD CANDIDATE
 INTERNATIONAL MACQUARIE UNIVERSITY RESEARCH EXCELLENCE SCHOLARSHIP RECIPIENT
 MEMBER OF THE ARC CENTRE FOR FRUIT FLY BIOSECURITY INNOVATION
 IRAN

A research degree will open doors for you across the globe, so capitalise on your opportunities.

Invest in your future

TUITION FEES

Fees for higher degree research vary depending on whether you are a domestic or international candidate.

DOMESTIC MASTER OF RESEARCH CANDIDATE FEES
 Commonwealth supported places are available for the first year of the program. If you continue into the second year, you will be supported by the Australian Government through the Research Training Program (RTP).

DOMESTIC PHD AND MASTER OF PHILOSOPHY CANDIDATE FEES
 All eligible domestic higher degree research candidates are granted places under the Research Training Program (RTP), which provides an exemption from course tuition fees.

The RTP guidelines require that you submit your thesis within the RTP-funded period – three years full-time study (or part-time equivalent) under a PhD and two years full-time study (or part-time equivalent) for the Master of Philosophy. If you are transferring from another university in Australia or you have an incomplete research degree, you will have your prior study period in the research degree deducted from your total program enrolment period at Macquarie.

education.gov.au/research-training-program

INTERNATIONAL CANDIDATES
 All international candidates (Master of Research, Master of Philosophy and PhD) are required to pay tuition fees. If you are a scholarship holder with a tuition component as part of your award, you are exempt from paying tuition fees for the period of your scholarship. Refer to your offer letter for details of the duration of your tuition component.

As an international candidate, you are also required by the Australian Government to purchase Overseas Student Health Cover (OSHC) for your entire visa period in Australia.

mq.edu.au/research-degrees-fees

Join the next generation of trailblazing researchers – apply for the Master of Research, Master of Philosophy or Doctor of Philosophy at Macquarie and kick-start an exciting career.

World-leading research starts with you

HOW TO APPLY

PRE-APPLICATION

If you're a Doctor of Philosophy or Master of Philosophy candidate, you're required to investigate a research topic. You must then consult with academic staff in your chosen research field to discuss your research interests and potential topic to ascertain the feasibility of your project.

mq.edu.au/mqsr

If you're a Year 1 Bachelor of Philosophy candidate, your supervision arrangement will be confirmed when you commence Year 2 of the Master of Research. If you're applying for direct entry into Year 2, your supervision arrangement will be made based on a one-to-two-page research proposal and available supervision.

PREPARING A RESEARCH PROPOSAL

If you're a Doctor of Philosophy or Master of Philosophy candidate, your proposal should define your chosen area of study, identify a research question, clarify its importance and outline a framework for further investigation. Sufficient detail is required for us to determine if we are able to support your candidature.

APPLICATION SUBMISSION

You must complete an online higher degree research application. There are no set closing dates for direct entry into the Doctor of Philosophy and Master of Philosophy programs. Specific deadlines do, however, apply to the Bachelor of Philosophy/Master of Research and scholarship applications.

mq.edu.au/information-about/how-to-apply

ENGLISH LANGUAGE PROFICIENCY

Proficiency in English is a requirement for admission to all higher degree research and research training programs at Macquarie. Higher degree research applicants (domestic and international) whose academic qualifications were obtained from a country where English is not the official language are required to provide evidence of English language proficiency. Macquarie accepts both IELTS and TOEFL.

mq.edu.au/information-about/how-to-apply

As a research candidate at Macquarie, you'll be encouraged and supported to take a collaborative and innovative approach, and to undertake research for the betterment of humankind.

Innovation through ingenuity

RESEARCH EXCELLENCE

Macquarie is recognised across the world for our strengths and performance in key research disciplines. A hallmark of our research activity is that we pursue projects across a wide range of research areas, including those that are cross-disciplinary. You can undertake research in any of the following areas.

- Biological sciences
- Business
- Chemical and biomolecular sciences
- Creative arts, communication and culture
- Earth sciences
- Education
- Engineering
- Environmental sciences
- Health sciences
- History and archaeology
- Human society
- Information and computing sciences
- Languages and linguistics
- Law and legal studies
- Macquarie University Graduate School of Management
- Mathematical sciences and statistics
- Medicine and surgery
- Philosophy
- Physics and astronomy
- Psychology and cognitive science
- Urban and regional planning

KEY DATES

31 JULY 2017

Closing date for all Australian Government-funded International Macquarie University Research Excellence Scholarships (IMQRES) for 2018 commencement.

31 AUGUST 2017

Closing date (candidature only) for international non-scholarship applications for 2018 commencement.

31 OCTOBER 2017

Closing date for all domestic applications and scholarships for 2018 commencement.

CONTACTS

The Higher Degree Research Office is responsible for the management and administration of candidature and scholarships for domestic and international candidates.

ADDRESS

Higher Degree Research Office
Research HUB
Level 3, 17 Wally's Walk (C5C East)
Macquarie University NSW 2109
T: +61 2 9850 7987

HDR APPLICATIONS AND ENROLMENTS

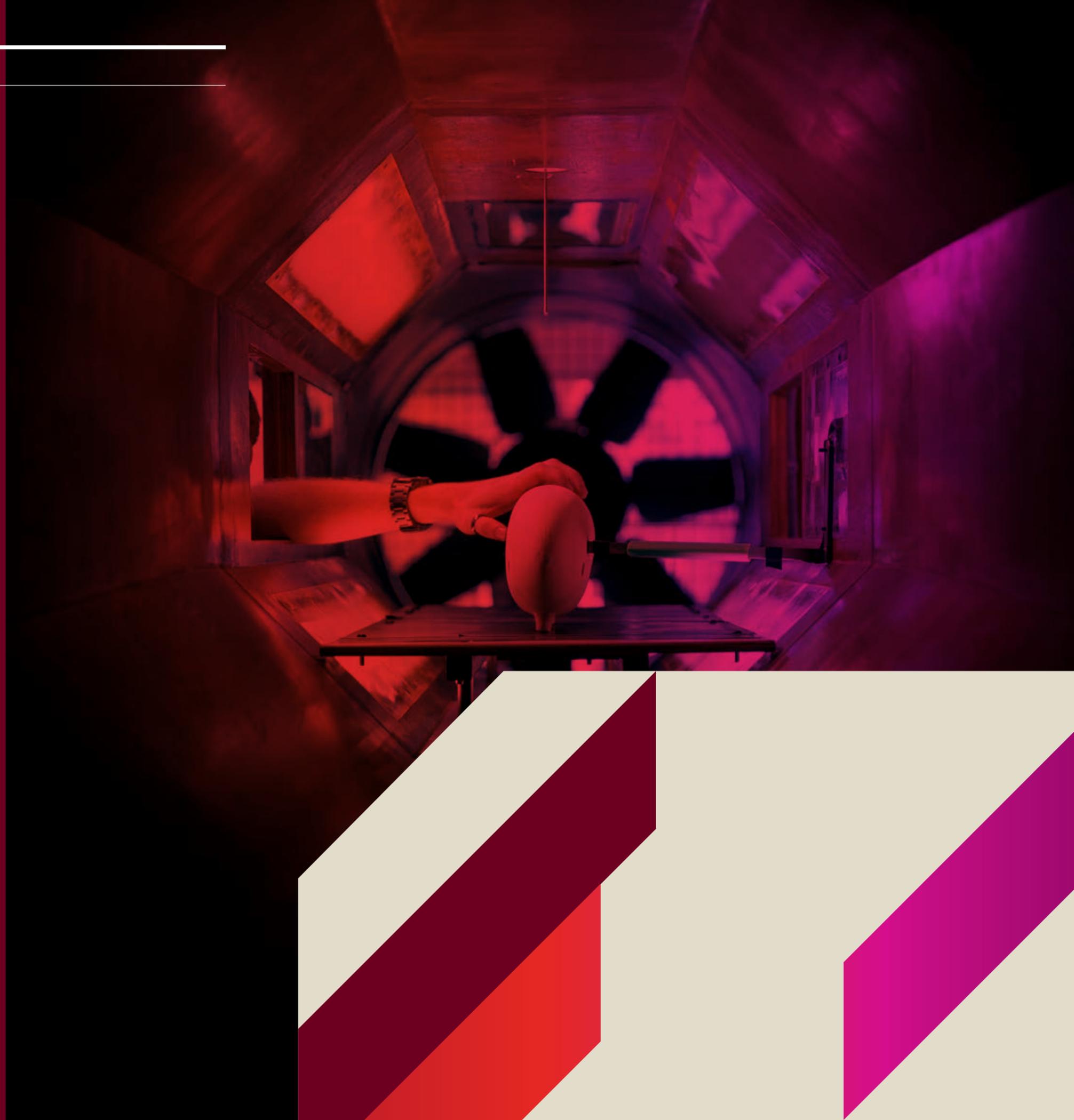
E: hdr.admissions@mq.edu.au

HDR SCHOLARSHIPS

E: hdrschol@mq.edu.au

COTUTELLE AND JOINT PHDS

E: hdrcotutelle@mq.edu.au



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