



**MACQUARIE**  
University  
SYDNEY · AUSTRALIA

# Accelerate your ambition

HIGHER DEGREE RESEARCH | 2019

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**COVER PHOTO:** Alexander Luft, cotutelle candidate with Macquarie University and University of Illinois at Chicago, USA, and International Macquarie University Research Excellence Scholarship recipient, with supervisors Professor Nicole Anderson and Associate Professor Peter Doyle, Department of Media, Music, Communication and Cultural Studies

**“My research focuses on literary depictions of journalists and journalistic work. We tend to think of the news as representing the world through facts, but what happens when fact and fiction are fluid categories? Novelists have long interrogated journalism’s efforts to define our shared social reality, much before ‘fake news’ was a household term. When reporters appear in novels, they often disrupt assumptions about the public’s version of truth and how we might know the world through fictions as well as facts. My supervisor, Professor Peter Doyle – an accomplished music critic and crime writer – helps guide both my critical and creative practice to make compelling contributions to the field. In addition to using the collections and workspaces at Macquarie’s state-of-the-art library, I have benefited from being part of the University’s intellectual community of scholars.”**

Alexander Luft

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

## Foreword



Macquarie’s 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 approach 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.

We attract candidates of the highest potential and provide them with outstanding supervision, superior mentoring and an exceptional placement within one of our areas of research strength.

Macquarie provides opportunities for career-enhancing exposure to industry, government and communities, and our degrees are internationally aligned and globally relevant.

Macquarie’s commitment to international research excellence is exemplified by our research training program – the 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 and 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 available to you. At Macquarie, you’ll 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 – 54 years since foundation – we have earned an enviable reputation for research excellence.

# A proud tradition of discovery

## RESEARCH AT MACQUARIE

Our *Strategic Research Framework 2015–2024: World-Leading Research; World-Changing Impact* is brought to life by our renowned researchers, whose intrepid solutions to issues of global significance benefit 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, have world-changing impact. Our discoveries yet to come, such as cures for motor neurone disease and Parkinson's disease, will change the world.

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 most recent 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 two-digit level.

Macquarie is also ranked among the top 100 institutions in the world for accounting and finance, earth and marine sciences, education, English language and literature, geography, law, linguistics, performing arts, philosophy and psychology (QS World University Rankings by Subject, 2018).

By undertaking a research degree at Macquarie, you'll have the opportunity to make an important contribution to the development of new knowledge while working alongside world-leading researchers and using 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



**5**  
future-shaping research priorities



**14**  
research themes and 69 research streams



**\$200 MILLION**  
in research funding received from 2014 to 2016



**\$1 BILLION**  
invested in infrastructure and facilities in recent years



**\$116 MILLION**  
invested in higher degree research scholarships from 2015 to 2017



**FIRST**  
university in Australia to introduce the Master of Research



**MORE THAN 30**  
researchers in the top 1% of scientific authors in the world



**LEAD INSTITUTION**  
for two ARC Centres of Excellence and a major node in two



**MORE THAN 2800**  
institutions have benefited from research collaborations with Macquarie since 2013



**MORE THAN 160**  
researchers have published research that is in the top 1% of publications worldwide



**1 OF ONLY 2**  
universities in Australia rated at the highest level for environmental sciences research in all three ERA evaluations



**1 OF ONLY 4**  
universities in Australia rated at the highest level for physical sciences research in all three ERA evaluations

Macquarie’s innovative approach to cross-disciplinary and translational research, as well as our commitment to excellence with impact, delivered outstanding results in the most recent 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 the 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 rated 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 – achieves far-reaching, world-changing results.

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 complex challenges, in areas including food security, climate change, chronic diseases and mental health.

ERA 5s
<b>MACQUARIE TWO-DIGIT 5s</b>
Agricultural and veterinary sciences
Environmental sciences
Physical sciences
<b>MACQUARIE FOUR-DIGIT 5s</b>
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

### 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 in oncology and carcinogenesis – a research area assessed for the first time

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

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



**“How people learn languages and how teachers can best support this process, in particular through the use of various media, has long been a research interest of mine. At a time of increasing globalisation, being able to communicate in a language other than one’s own not only opens the door into other cultures, but also allows for an understanding of those cultures and their reality at a deeper level.**

**In my time at Macquarie, I’ve had the opportunity to be a supervisor to honours, masters and PhD students. About half of my PhD students completed their research under a cotutelle arrangement, with a second supervisor at one of Macquarie’s partner universities abroad – an excellent way of internationalising our research efforts and of building lasting research collaborations.”**

**Professor Martina Möllering**  
EXECUTIVE DEAN, FACULTY OF ARTS

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 in 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 a better world for everyone – 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



**ENGAGE AS A WORLD-RECOGNISED RESEARCH COLLABORATOR OF CHOICE**

**“With a growing ageing population, there’s an increasing need for acute and aged care. This brings about unprecedented challenges for hospitals, so improving their efficiency and productivity while maintaining excellent levels of quality is vital. In my research, which is set in operating theatres – one of the most critical and costly units of any hospital – I’m using a qualitative approach to examine the impact of efficiency improvement programs on staff and their work conditions.”**

**Zeyad Mahmoud**  
COTUTELLE PHD CANDIDATE  
AUSTRALIAN INSTITUTE OF HEALTH INNOVATION,  
MACQUARIE UNIVERSITY AND UNIVERSITY OF NANTES, FRANCE  
INTERNATIONAL MACQUARIE UNIVERSITY  
RESEARCH EXCELLENCE SCHOLARSHIP



**DELIVER RESEARCH WITH WORLD-CHANGING IMPACT**

**“Many stars in our galaxy are part of a binary system, in which two stars orbit a common centre of mass. These binary systems undergo some of their most dramatic changes at the end of their lives. Current observations have revealed the presence of high-velocity outflows of gas, commonly referred to as jets, from dying stars that are interacting with a companion star. My research is investigating the origin and dynamics of these high-velocity outflows, which have a significant impact on the system as a whole.”**

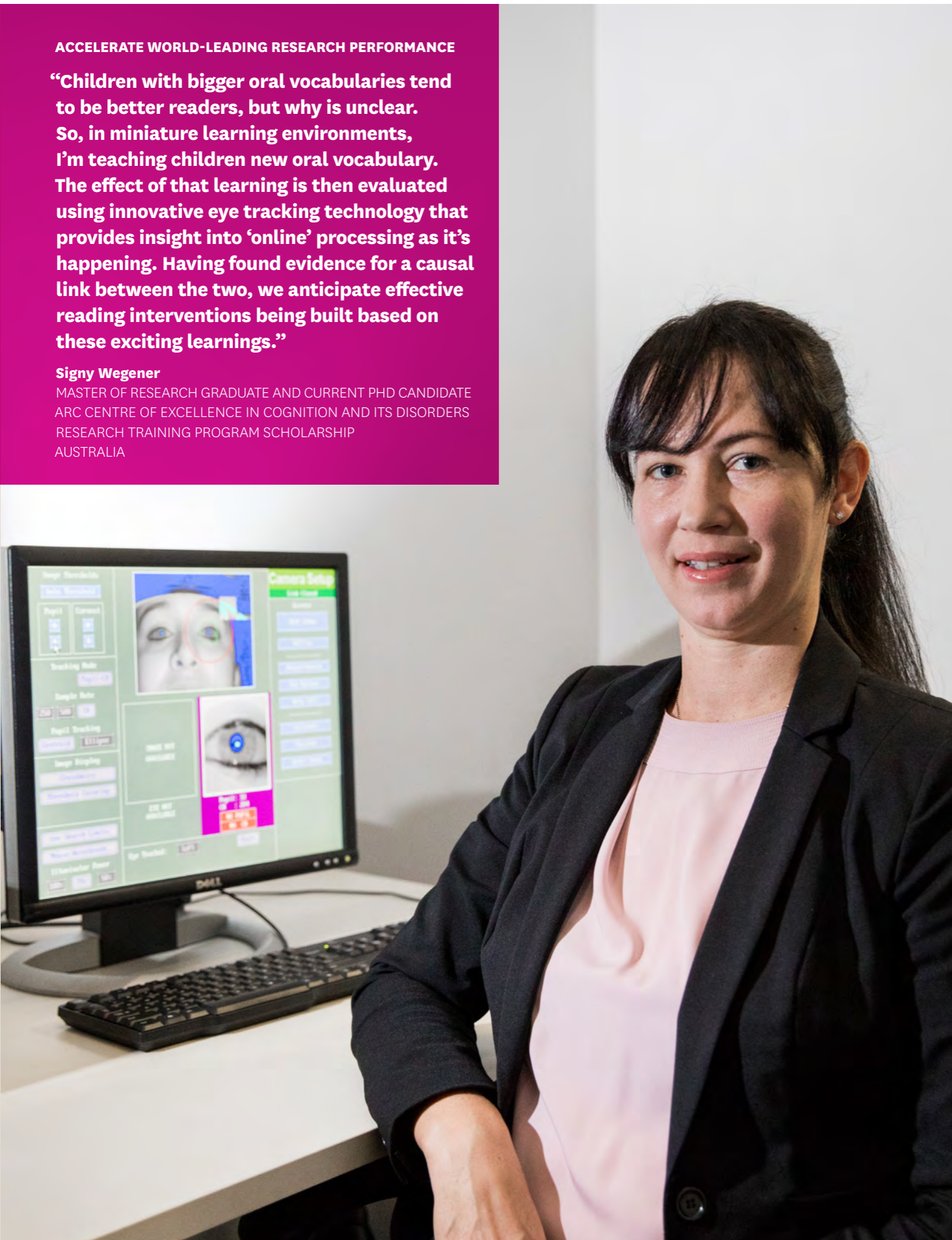
**Dylan Bollen**  
COTUTELLE PHD CANDIDATE  
DEPARTMENT OF PHYSICS AND ASTRONOMY,  
MACQUARIE UNIVERSITY AND KU LEUVEN, BELGIUM  
INTERNATIONAL MACQUARIE UNIVERSITY  
RESEARCH EXCELLENCE SCHOLARSHIP

## ACCELERATE WORLD-LEADING RESEARCH PERFORMANCE

**“Children with bigger oral vocabularies tend to be better readers, but why is unclear. So, in miniature learning environments, I’m teaching children new oral vocabulary. The effect of that learning is then evaluated using innovative eye tracking technology that provides insight into ‘online’ processing as it’s happening. Having found evidence for a causal link between the two, we anticipate effective reading interventions being built based on these exciting learnings.”**

**Signy Wegener**

MASTER OF RESEARCH GRADUATE AND CURRENT PHD CANDIDATE  
ARC CENTRE OF EXCELLENCE IN COGNITION AND ITS DISORDERS  
RESEARCH TRAINING PROGRAM SCHOLARSHIP  
AUSTRALIA



## PREPARE WORLD-READY HIGHER DEGREE RESEARCH CANDIDATES

**“In clinical practice I was frequently consulted by teenagers with non-specific spinal pain. Many of these cases were seemingly linked to too much time spent on electronic devices and excessive sedentary behaviour. With my research, I hope to be able to guide chiropractors – who are well positioned to play a positive role in the education, prevention and treatment of spinal pain – about how to best help young people with this type of spinal pain.”**

**Laura Montgomery**

MASTER OF RESEARCH CANDIDATE  
DEPARTMENT OF CHIROPRACTIC, MACQUARIE UNIVERSITY  
CA-ANZMUSC MRES SCHOLARSHIP  
AUSTRALIA

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.

### 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.

[mq.edu.au/research/master-of-research](http://mq.edu.au/research/master-of-research)

[mq.edu.au/mres-advisers](http://mq.edu.au/mres-advisers)



**Guan Yan** – Master of Research graduate and current PhD candidate in Macquarie’s Department of Actuarial Studies and Business Analytics; co-funded China Scholarship Council scholarship recipient; cotutelle candidate with Central University of Finance and Economics, Beijing, China; and International Macquarie University Research Excellence Scholarship recipient – having studied spot prices in the Australian national electricity market, is now researching the application of network theory to China’s financial markets, which is expected to provide useful tools for regulators to monitor general economic conditions.

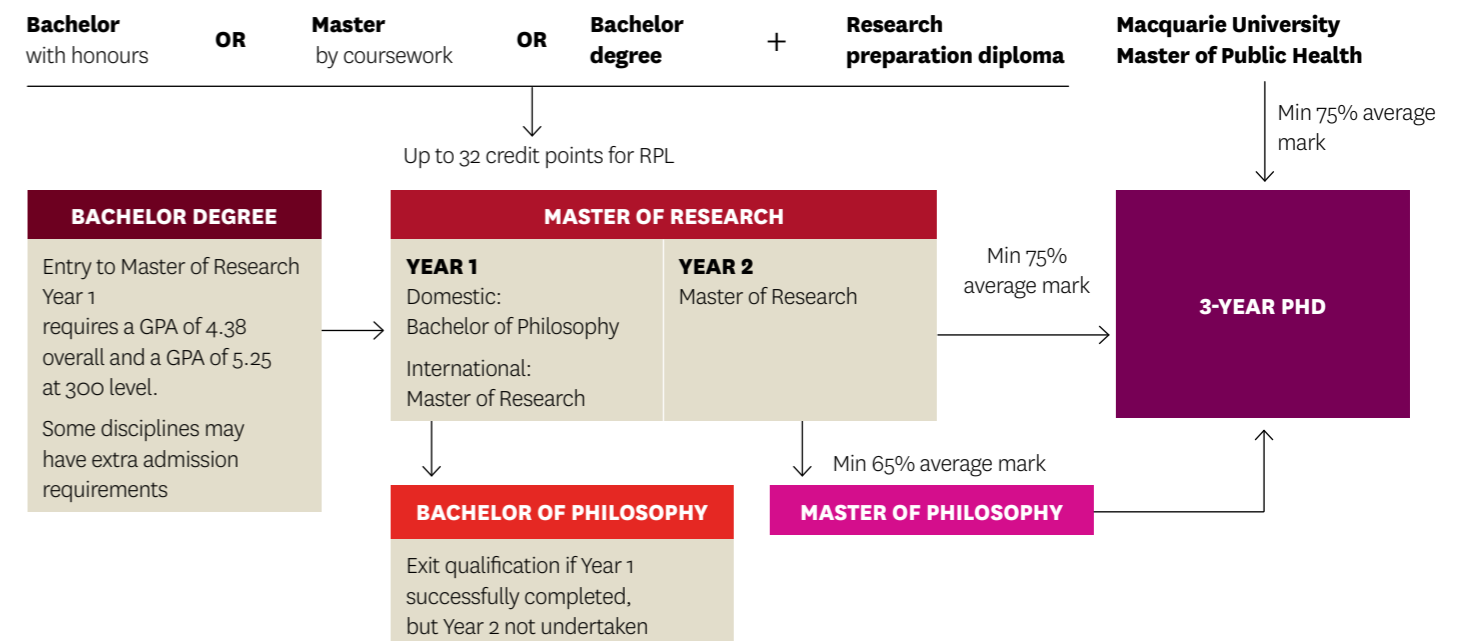


**Vera Kisse** – Master of Research exchange candidate in Macquarie’s Department of Anthropology and the University of Hamburg, Germany – is undertaking an ethnographic analysis of the extent the use of digital self-measuring devices, such as smartwatches and fitness bracelets, are able to influence body concepts, and therefore how they can change personal relations to the body.



**Huong Ly Tong** – Master of Research candidate in the Australian Institute of Health Innovation and International Macquarie University Research Excellence Scholarship recipient from Vietnam – is researching how social features in mobile health can be used to promote physical activity. She anticipates her research will facilitate the delivery of public health programs and provide an innovative direction for the development of next-generation health informatics.

### 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're 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.

Macquarie's Higher Degree Research Rules can be found in the *Calendar of Governance, Legislation and Rules*.

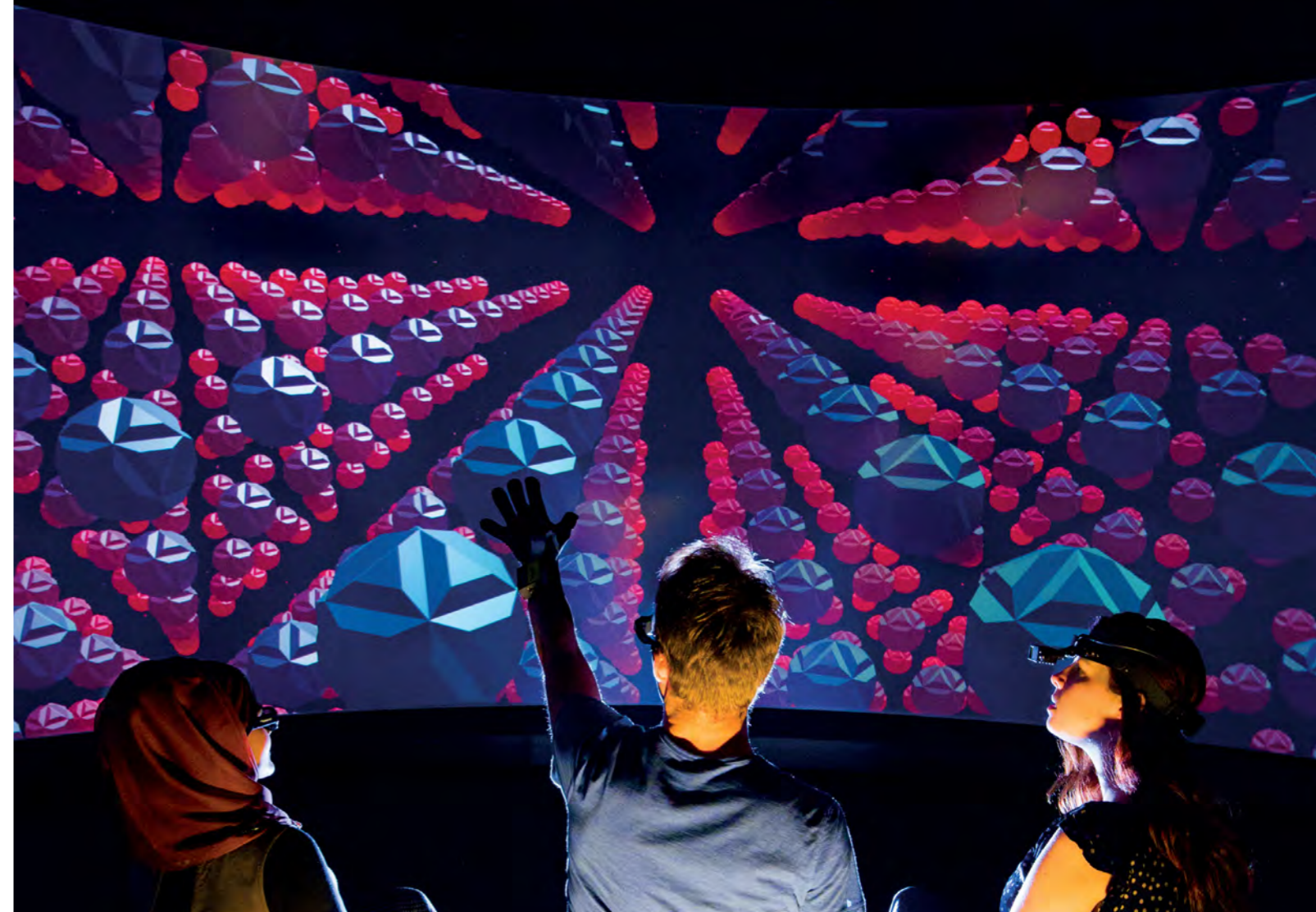
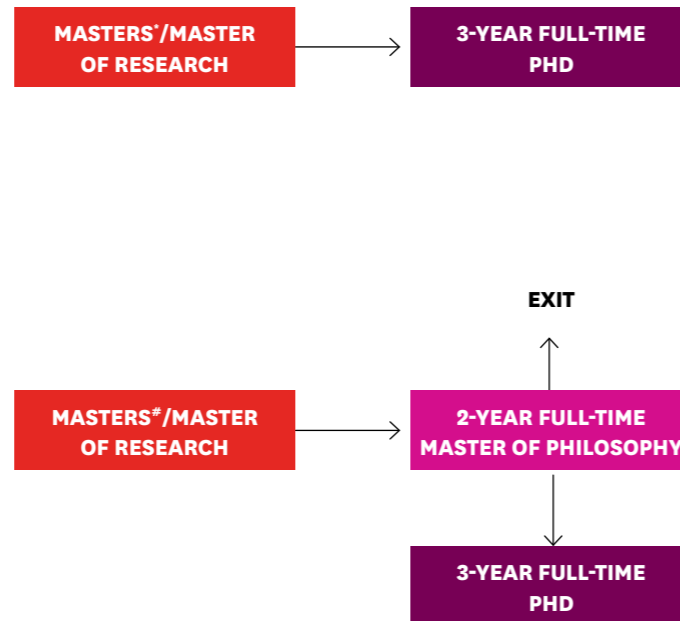
[universitycouncil.mq.edu.au/legislation.html](http://universitycouncil.mq.edu.au/legislation.html)

### INTELLECTUAL PROPERTY

[staff.mq.edu.au/work/intellectual-property](http://staff.mq.edu.au/work/intellectual-property)

### RESEARCH INTEGRITY AND ETHICS

[mq.edu.au/research/integrity-and-ethics](http://mq.edu.au/research/integrity-and-ethics)



DIRECT ENTRY ADMISSION REQUIREMENTS AND PROGRAM SNAPSHOT	
DOCTOR OF PHILOSOPHY <a href="http://mq.edu.au/doctor-of-philosophy">mq.edu.au/doctor-of-philosophy</a>	MASTER OF PHILOSOPHY <a href="http://mq.edu.au/master-of-philosophy">mq.edu.au/master-of-philosophy</a>
<ol style="list-style-type: none"> <li>Completed Macquarie's Master of Research with at least 75 per cent in Year 2 or</li> <li>Completed a Master of Philosophy or</li> <li>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).</li> </ol>	<ol style="list-style-type: none"> <li>Completed Macquarie's Master of Research with at least 65 per cent in Year 2 or</li> <li>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).</li> </ol>
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 of 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're required to submit a thesis of 75,000 to 100,000 words.	You're required to submit a thesis of 50,000 words.



“Artificial Intelligence (AI) agents, for example robots, are entities capable of receiving information from and interacting with the environment they are situated in. The information they receive is used to keep their knowledge fresh. Maintenance of knowledge presupposes an account of how an agent should change its knowledge in response to any new information it receives. It's assumed that a specific language/logic is used in the background to represent knowledge and reason from it. In my research, I'm exploring the use of a type of temporal logic as the background logic for belief revision and examine what modifications in the mechanisms involved need to be carried out.”

**Jandson Santos Ribeiro Santos**  
 COTUTELLE PHD CANDIDATE  
 DEPARTMENT OF COMPUTING, MACQUARIE UNIVERSITY AND  
 UNIVERSITY OF SÃO PAULO, BRAZIL  
 INTERNATIONAL MACQUARIE UNIVERSITY RESEARCH EXCELLENCE SCHOLARSHIP



# 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 350 cotutelle and joint PhD candidates from more than 110 universities across 35-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’re enrolled at two universities with a principal supervisor at each. You’ll spend around 50 per cent of your candidature at each university.

[mq.edu.au/cotutelle-and-joint-phd](http://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 University of Groningen, Netherlands; University of Newcastle, UK; University of Potsdam, Germany; and University of Trento, Italy.

[em-idealab.com/consortium.html](http://em-idealab.com/consortium.html)

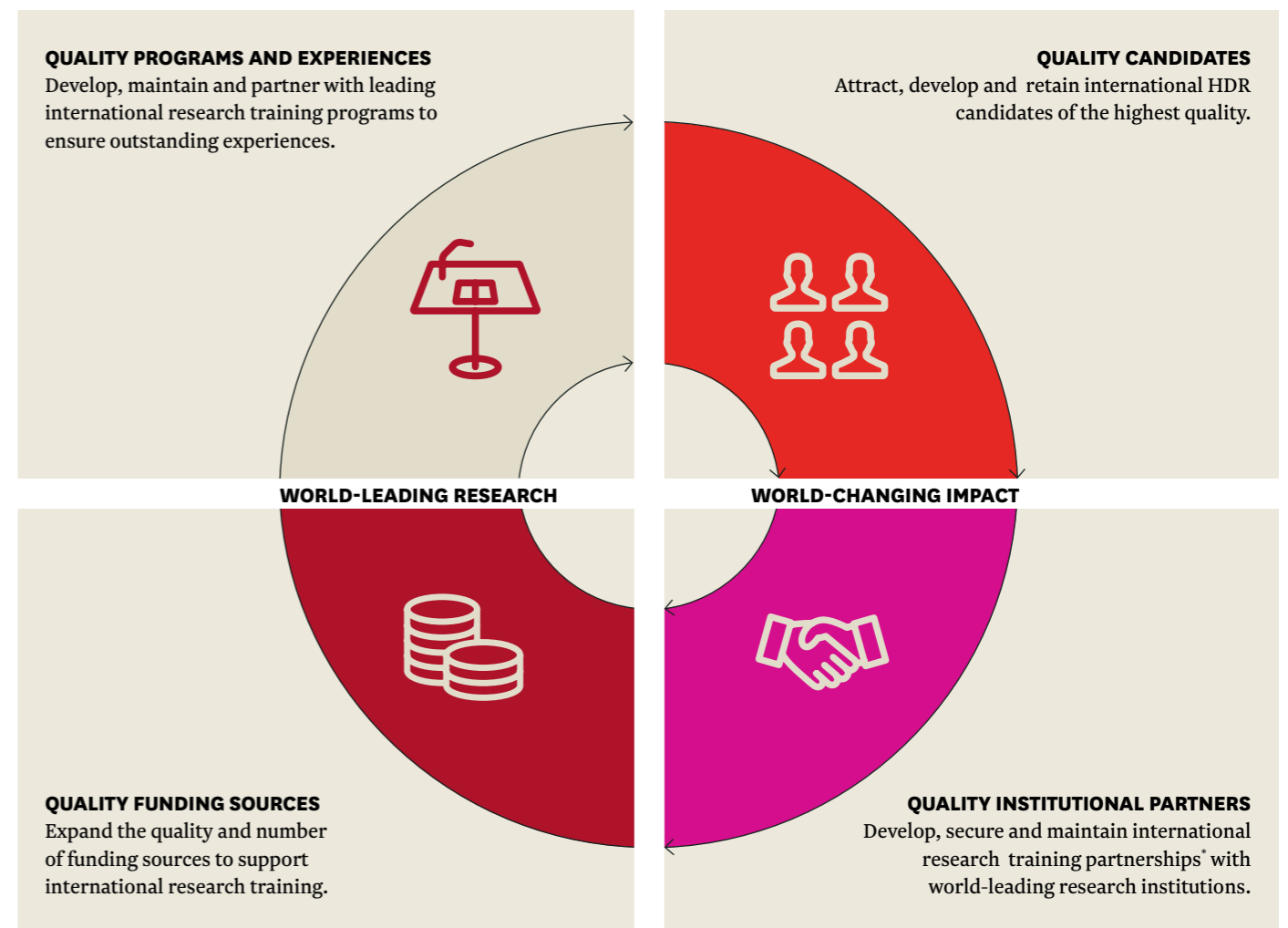
### INTERNATIONAL FUNDING OPPORTUNITIES

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](http://mq.edu.au/externally-funded-scholarships)

### IRTP\* FRAMEWORK: OBJECTIVES, GOALS AND KEY TARGETS





# Key foundation

## INTERNATIONAL RESEARCH TRAINING PARTNERSHIPS

\*Since 1999  
 #Macquarie – Fudan – Hamburg  
 Jilin – Macquarie – Justus Liebig  
 Nanjing – Göttingen – Macquarie

350+ cotutelle and joint PhD candidates*	110+ cotutelle and joint PhD collaborating partners*	35+ countries involved in cotutelle and joint PhD arrangements*	220 cotutelle candidate completions*	75 priority partners in 21 countries (and 81 preferred partners)	3 regional partnership tiers – strategic, developing and emerging	25 disciplines involved in current programs	41 universities with Academic Senate approval for joint PhDs
135 current cotutelle and joint PhD candidate enrolments	67% of current candidates with European universities	21% of current candidates with Chinese universities	10 Master of Research exchange partners established (a path to cotutelle/joint PhD)	3 strategic trilateral partnerships: MQ-FU-HAM, JLU-MQ-JLU and NU-UG-MQ#	ONLY university in Australia participating in IDEALAB joint PhD	15 joint funding agreements with key international funding agencies	44 IDEALAB PhD candidates (including 30 current enrolments)

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 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](http://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. 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](http://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](http://mq.edu.au/research/scholarships)



#### Lara Mottee

Cotutelle candidate with University of Groningen, Netherlands and Australian Government Research Training Program Scholarship recipient, from Australia, is investigating what constrains and influences social impact assessment and management practice in the decision-making, planning and approval processes for transport infrastructure projects.

#### Diego Ocampo Herrera

National Research and Innovation Agency and Macquarie University co-funded scholarship recipient, from Uruguay, is studying formal verification and correctness in WebAssembly programs.

#### Wasin Praditsilp

Australian Government Research Training Program Scholarship recipient, from Thailand, is studying how a nation manages and creates its soft power.

#### Douglas McLeod

Australian Government Research Training Program Scholarship recipient, from Australia, is using a mathematical model to demonstrate the commonalities of economic and biological systems.

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

# Embark on a research journey

## HIGHER DEGREE RESEARCH CANDIDATURE



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'll 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're transferring from another university in Australia or you have an incomplete research degree, you'll have your prior study period in the research degree deducted from your total program enrolment period at Macquarie.

[education.gov.au/research-training-program](http://education.gov.au/research-training-program)

### INTERNATIONAL CANDIDATES

All international candidates undertaking a Master of Research, Master of Philosophy or PhD are required to pay tuition fees. If you're a scholarship holder with a tuition component as part of your award, you're 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're 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](http://mq.edu.au/research-degrees-fees)



**“Nitrogen is the main element of earth’s atmosphere – an essential element for life and a fundamental component in complex biochemistry. The deep mantle is thought to be a repository for high amounts of nitrogen, but as yet, in unknown forms. Using experimental petrology methods to determine the amount of nitrogen that is cycled from surface to mantle depths, I’ve been able to demonstrate that parts of earth’s mantle are able to store significant amounts of subducted nitrogen.”**

**Michael Förster**

PHD CANDIDATE

ARC CENTRE OF EXCELLENCE FOR CORE TO CRUST FLUID SYSTEMS, MACQUARIE UNIVERSITY

INTERNATIONAL RESEARCH TRAINING PROGRAM SCHOLARSHIP GERMANY

Join the next generation of trailblazing researchers – apply for the Master of Research, Master of Philosophy or Doctor of Philosophy at Macquarie and kickstart 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. To learn more about our research and identify potential supervisors, visit our research portal PURE.

[researchers.mq.edu.au](http://researchers.mq.edu.au)

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](http://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](http://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 that seeks to create a better world for all.

# 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.

- Accounting, management and marketing
- Actuarial studies, applied finance and economics
- Biological sciences
- Chemical and biomolecular sciences
- Creative arts, literary studies, 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
- Mathematical sciences and statistics
- Medical sciences
- Philosophy
- Physics and astronomy
- Psychology and cognitive science
- Urban and regional planning



## KEY DATES

### 31 JULY 2018

Closing date for all Australian Government-funded and International Macquarie University Research Excellence Scholarships (IMQRES) for 2019 commencement.

### 31 AUGUST 2018

Closing date (candidature only) for international non-scholarship applications for 2019 commencement.

### 31 OCTOBER 2018

Closing date for all domestic applications and scholarships for 2019 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  
Macquarie University NSW 2109  
T: +61 2 9850 7987

### HDR APPLICATIONS AND ENROLMENTS

E: [hdr.admissions@mq.edu.au](mailto:hdr.admissions@mq.edu.au)

### HDR SCHOLARSHIPS

E: [hdrschol@mq.edu.au](mailto:hdrschol@mq.edu.au)

### COTUTELLE AND JOINT PHDS

E: [hdrcotutelle@mq.edu.au](mailto:hdrcotutelle@mq.edu.au)

**PHOTOS:** All photos by Joanne Stephan and Chris Stacey unless otherwise noted.

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HDR04079



**“My research is focusing on the dynamic and complex mating system of the cooperatively breeding chestnut-crowned babbler, in particular, how the babbler’s social and physical environment regulate the trade-off between monogamy and polyandry. This variation lies at the heart of sexual conflict over reproduction, as the female must balance potential benefits of multiple mates such as extra parental care, greater genetic diversity or quality, or fertility insurance, against each male’s unwillingness to care for offspring that are not his own.”**

### Louis O’Neill

COTUTELLE PHD CANDIDATE  
DEPARTMENT OF BIOLOGICAL SCIENCES, MACQUARIE UNIVERSITY  
AND UNIVERSITY OF EXETER, UNITED KINGDOM  
INTERNATIONAL MACQUARIE UNIVERSITY RESEARCH  
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[mq.edu.au/research](http://mq.edu.au/research)



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