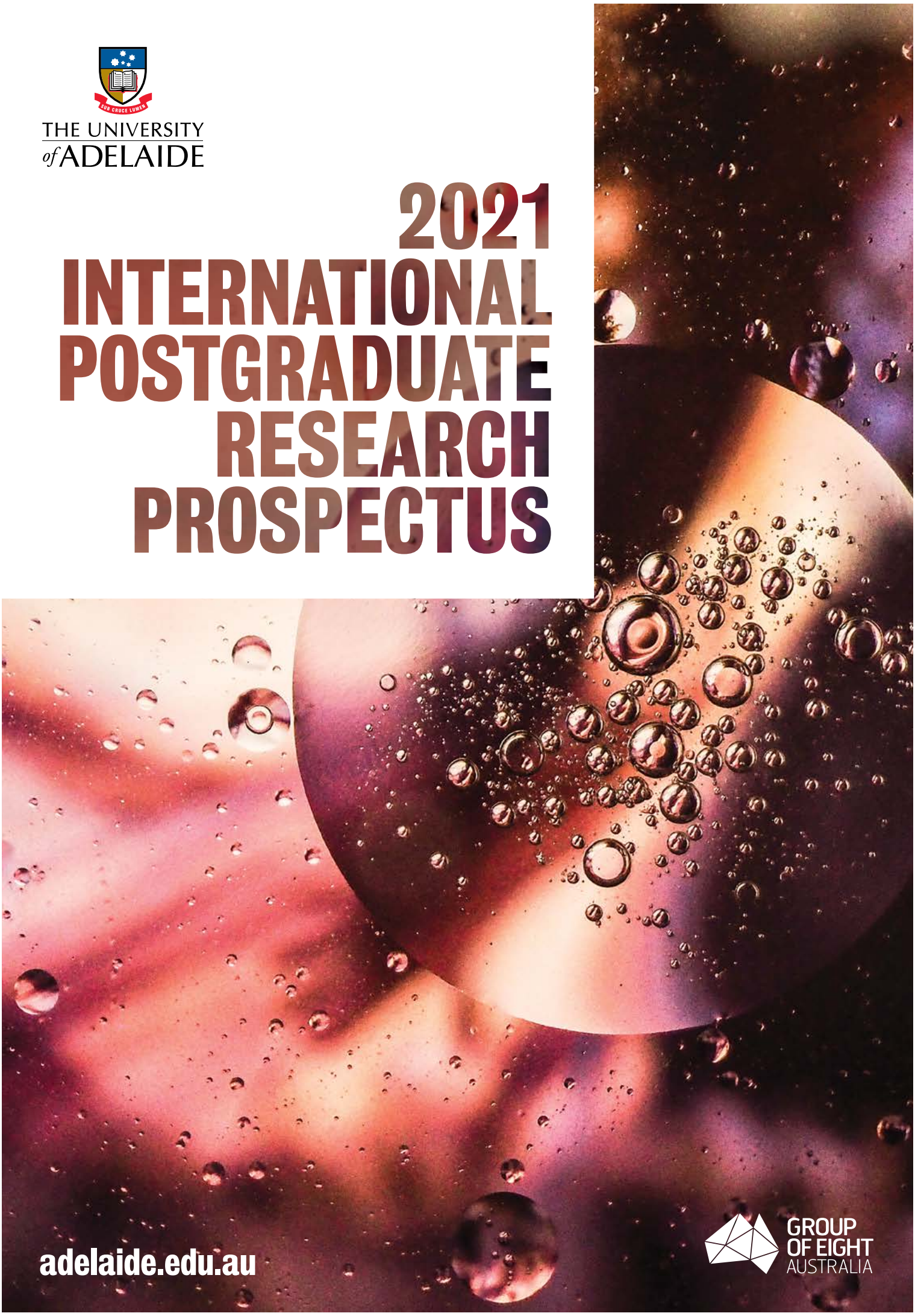
THE UNIVERSITY of ADELAIDE

2021 INTERNATIONAL POSTGRADUATE RESEARCH PROSPECTUS



adelaide.edu.au

GROUP OF EIGHT AUSTRALIA

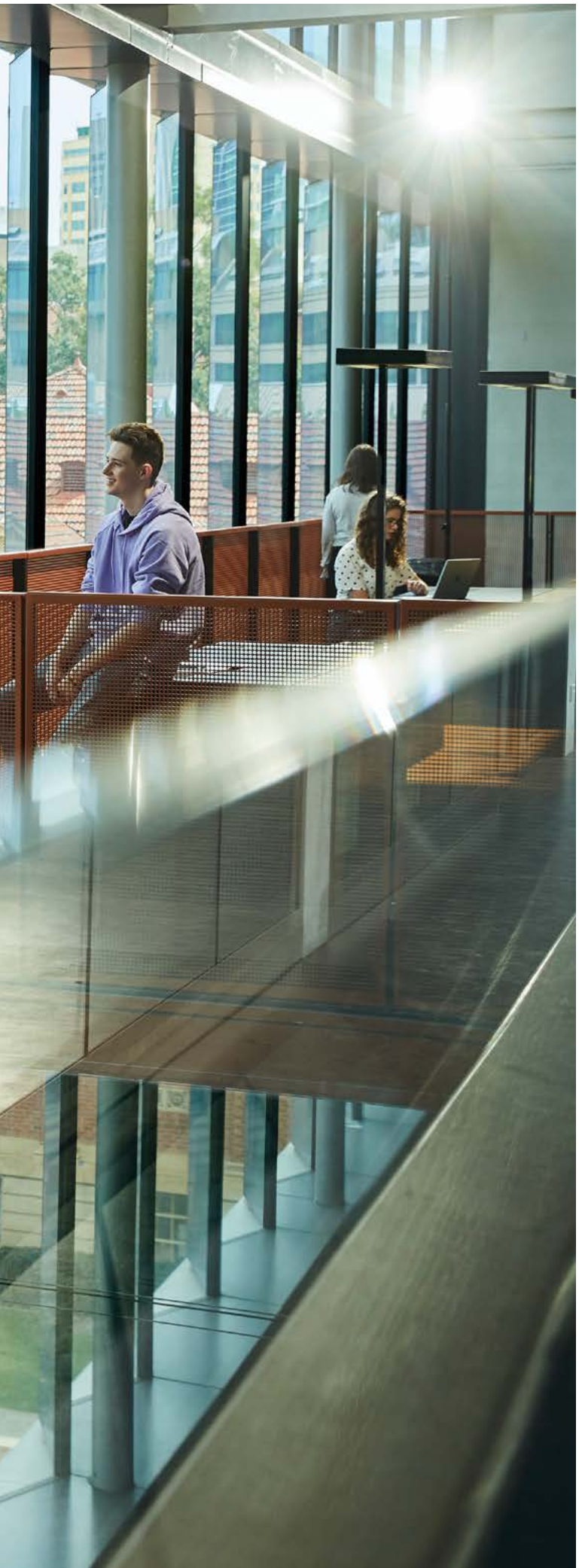
A WORLD-CLASS UNIVERSITY IN THE HEART OF ONE OF THE WORLD'S MOST LIVEABLE CITIES*

** Economist Intelligence Unit Global Liveability Index 2019*

The University of Adelaide has achieved a five star rating in:

- Teaching
- Research
- Facilities
- Life Sciences and Medicine
- Inclusiveness
- Internationalisation
- Innovation
- Employability


JLL



FROM OUR ACTING VICE-CHANCELLOR

The University of Adelaide is ranked in the top 1% of universities worldwide and is recognised globally for its research excellence and dedicated staff that are international leaders in their field.

Our postgraduate research degrees are world-class, driven by cutting edge research and technology that encourages critical thinking, problem solving, team-work and communication. The University's Industry Engagement Priorities ensures close alignment with the needs of industry while our broader research mission is committed to tackling the grand challenges of our time. The University is focused on preparing students for their careers through industry placement and internship opportunities.

A postgraduate research degree at the University allows for study at the forefront of discovery, with access to state-of-the-art research facilities, cross-disciplinary programs, and a connection to a globally integrated and culturally diverse community. The academic environment of the University pursues excellence, values creativity, and gives graduates the opportunity to make a major contribution to the world.

Acting Vice-Chancellor and President
Professor Mike Brooks

ONE OF AUSTRALIA'S TOP RESEARCH UNIVERSITIES

Excellence in Research for Australia (ERA) is an initiative of the Australian Government, which aims to assess research quality in higher education institutions.

It uses a combination of metrics focused on researchers, research outputs, research income, esteem and applied measures.

The most recent ERA results, released in March 2019, confirmed many of the University of Adelaide's fundamental research strengths. This included in areas such as geology, ecology, oncology, nutrition, civil engineering, astronomical sciences, macromolecular chemistry, soil sciences and philosophy.

Excellence in Research for Australia (ERA)

www.adelaide.edu.au/research/about-us/era

The University of Adelaide is a world leader in fields that underpin innovation across industries critical to our State's and our community's future, and in areas that translate to benefits for society.

The high quality of our research across a vast array of fields was recognised in the 2018 Excellence in Research Australia (ERA) evaluation, conducted by the Australian Research Council (ARC). The ERA results released in March 2019 provide a comprehensive assessment of the University's research outputs for the period 2014-2018 and demonstrate that the University is a clear world leader in research.

More than 22,500 individual research outputs by academic staff and affiliates of the University were assessed, including published papers, authored and edited books, book chapters, conference papers, and creative works.

The University now has 67 research sub-fields (100%) that are assessed to be world-class or above, including research in engineering, mathematics, science, medical and health sciences, agricultural sciences, artificial intelligence, and the arts.

Highlights

- 100% of the University's research sub-fields were assessed as being "at or above world standard".
- Across all sub-disciplines of research assessed, the latest ERA has found that the University of Adelaide has:
  - 41 research fields rated 5 (well above world standard)—the maximum rating
  - 16 research fields rated 4 (above world standard)
  - 10 research fields rated 3 (at world standard).

One of Australia's top research universities

Established in 1874, the University of Adelaide has developed a reputation for research excellence and is one of the top research universities in Australia. The University's research initiatives are aimed at delivering real results that contribute to both Australian and international social, economic, cultural and environmental wellbeing.

Our Research Strategic Plan for 2016-18, *Adelaide Research for Impact*, recognises that the world's finest institutions: excel in fundamental research; engage strongly with business and industry; work across discipline boundaries; and pursue grand challenges with a global outlook.

* *Times Higher Education and QS ranking*
^ *A coalition of Australia's leading research intensive universities*

OVER 7000 INTERNATIONAL STUDENTS

5 STARS PLUS QS RATING

100+ COUNTRIES REPRESENTED IN STUDENT POPULATION

TOP 7 REGIONS

01 China
02 Malaysia
03 Hong Kong
04 Singapore
05 India
06 Vietnam
07 Indonesia

27000 STUDENTS

AREAS OF STUDY

- Health and Medical Sciences
- Sciences
- Business, Law and Economics
- Education, Humanities, Music and Social Sciences
- Engineering, Architecture, Computer and Mathematical Sciences

Research strength and expertise

www.adelaide.edu.au/research

Adelaide's researchers are conducting world-class research across a broad range of fields. This includes such diverse areas as astronomical sciences, food and nutrition, computer vision, performing arts, and infectious diseases.

Our research strengths are encompassed by the following overarching fields, all of which contain a number of sub-fields:

- engineering and environmental sciences
- biological and agricultural sciences
- humanities, law and creative arts
- mathematical, information and computing sciences
- physical, chemical and earth sciences
- social and behavioural sciences
- medical and health sciences.

A global alumni network

www.adelaide.edu.au/alumni

University of Adelaide graduates become part of a distinguished worldwide alumni community. Internationally, Adelaide alumni occupy positions of influence in business, government, academia and the arts.

Adelaide has 20 alumni chapters and networks, including groups based in Hong Kong, Malaysia (Kuala Lumpur and Sarawak), Singapore, Thailand, the United Kingdom and the United States of America.

The chapters and networks offer graduates and friends of the University the opportunity to continue their connection through a variety of events and activities—from reunions and social events, to professional development and mentoring programs.

OUR RESEARCH INSTITUTES AND CENTRES

HIGHLIGHTS OF OUR 2018 ERA RESULTS

86%

of the University's 67 assessed research subfields were rated as being above or well above world standard (rating 4 or 5)

100%

of our University's research sub-fields were assessed as being "at or above world standard"

>61%

of those 67 sub-fields were rated at the highest 'well above world standard' level—the second highest proportion in the Group of Eight

5

of our seven major research institutes have been associated with multiple top ratings of 5 in at least one research area

Robinson Research Institute

www.adelaide.edu.au/robinson-institute

The Robinson Research Institute focuses on the early stages of life to improve the health and wellbeing of children and families over the life course and across generations. It seeks to enable a healthy start through: fertility choices and mindful conception; nurturing the baby during pregnancy and birth; strengthening the brain and body in early life; and advancing child and adolescent health to treat and prevent disease.

The Environment Institute

www.adelaide.edu.au/environment

The Environment Institute develops and implements solutions to improve environmental health and community wellbeing, and sustain our economy. Its key areas of focus include: uncovering how life has evolved on the Australian landmass; confronting environmental issues around the sourcing and supply of clean water; and working to ensure the environment can thrive amidst the pressures of society.

The University of Adelaide has seven major research institutes. Each brings together world-leading researchers, supported by modern infrastructure and an innovative culture, to tackle national and international research priorities.

Institute for Mineral and Energy Resources (IMER)

www.adelaide.edu.au/imer

IMER focuses on large-scale, interdisciplinary opportunities and challenges in deep resources and mining, complex processing, unconventional energy resources, and reliable low-cost and low-emission energy technologies. Its researchers address the complex challenges faced by the mineral and energy resources sectors, and aim to establish South Australia as a world leader in the provision of research and education for these industries.

The Institute for Photonics and Advanced Sensing (IPAS)

www.adelaide.edu.au/ipas

IPAS brings together physicists, chemists and biologists to pursue a transdisciplinary approach to science. Its researchers develop novel photonic, sensing and measurement technologies, with a focus on: optical materials and structures; lasers and nonlinear optics; remote sensing; chemical and radiation sensing; surface and synthetic chemistry; medical diagnostics; and biological sensing.

The Waite Research Institute

www.adelaide.edu.au/wri

The Waite Research Institute brings together researchers in the areas of plant and crop sciences, soil science, viticulture and oenology, food and nutrition, and food chain economics. It aims to enhance the University of Adelaide's position as Australia's foremost agricultural research institution, and addresses key issues such as global food security and agricultural sustainability.

Australian Institute for Machine Learning (AIML)

www.adelaide.edu.au/aiml

The newly established Australian Institute for Machine Learning (AIML) places South Australia on the global map of world's best centres of excellence in machine learning. The AIML will continue to build upon a strong track record of high-tech development for local and international companies by allowing businesses to access world-leading expertise and technology in image detection and world-class capabilities in machine learning.

Stretton Research Institute

www.adelaide.edu.au/stretton

The Stretton Institute shapes policy debate by bringing up-to-date and rigorous research to policy issues. The Institute has a strong social justice focus and drives a multi-disciplinary and multi-method research approach that stimulates ideas and innovation particularly in the context of policy. It fosters and builds partnerships across the University as well as nationally and internationally, particularly with policymakers and decision leaders.

The University also has over 50 research centres across its full spectrum of research strengths. For more information, visit:

www.adelaide.edu.au/research/about-us/institutes-centres

OUR NOBEL LAUREATES

The Nobel Prize is an international award given yearly since 1901 for achievements in physics, chemistry, medicine, literature and peace. The University of Adelaide is associated with five Nobel Laureates, and has a long history of groundbreaking research and scholarship of international significance.

1915

Sir William Henry Bragg and William Lawrence Bragg: Physics

For their services in the analysis of crystal structure by means of X-rays.

1945

Sir Howard Walter Florey: Physiology or Medicine

For the discovery of penicillin and its curative effect in various infectious diseases.

2003

John M Coetzee: Literature

For his contribution to literature.

2005

Dr J Robin Warren: Physiology or Medicine (joint)

For his discovery of the bacterium *Helicobacter pylori*, and its role in gastritis and peptic ulcer disease.

ADELAIDE GRADUATE CENTRE (AGC)

www.adelaide.edu.au/graduatecentre

The Adelaide Graduate Centre is a service centre dedicated entirely to supporting research students. Operating under the leadership of the Dean of Graduate Studies, Professor Michael Liebelt, the Graduate Centre is a one-stop shop for students enrolled in a Higher Degree by Research, delivering essential information and services throughout the lifecycle of the program, from admission through to examination.

There are exciting opportunities for students to broaden their research career and gain a truly international experience. A core function of the Graduate Centre is to facilitate these highly sought after experiential opportunities which provide a broad research education and deliver significant employment advantage.

The Graduate Centre also delivers Career and Research Skills Training (CaRST), a specialised training and development program for Higher Degree by Research Students. The program has been designed to equip students with the skills needed to become effective, well-rounded researchers, prepared for careers both within and outside academia. The program embraces a holistic approach and with a high degree of flexibility, students can tailor activities to suit their needs.

For more information

Jointly awarded PhDs

www.adelaide.edu.au/graduatecentre/future-students/adelaide-research-degrees/jointly-awarded-phds

Industry opportunities

www.adelaide.edu.au/graduatecentre/career-development/industry-oppportunities

Career development

www.adelaide.edu.au/graduatecentre/career-development

RESEARCH PROGRAMS

Doctor of Philosophy

Course duration 2-4 years full-time

Availability All faculties

The Doctor of Philosophy (PhD) is the fundamental qualification for a research career or academic position, and is a stepping stone to a range of career opportunities. The PhD typically involves three to four years of full-time research candidature. However, students are permitted to submit their thesis after just two years if their research is complete.

Doctorates at the University of Adelaide require compulsory participation in the:

- **Career and Research Skills Training (CaRST) program**
  Students must complete 120 hours of CaRST activities prior to thesis submission. In the course of completing the degree under appropriate supervision, candidates develop the capacity to conduct research independently at a high level of originality and quality, and make a significant original contribution to knowledge in their chosen discipline.

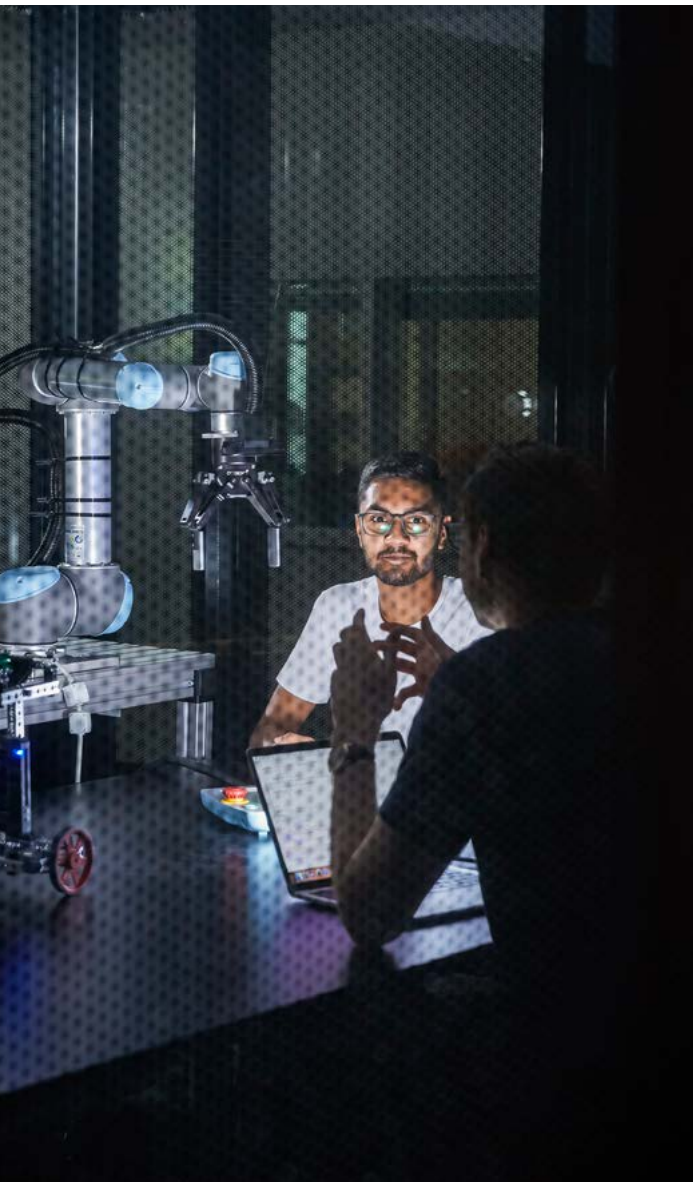
After completion of the program of study and research under supervision, the student presents a thesis embodying the results of original investigation.

This may be prepared in one of the following formats:

1. Conventional written narrative.
2. Publication. This may include manuscript-style papers that have been published; and/or accepted and/ or submitted for publication; and/or unpublished and unsubmitted.
3. A combination of conventional and publication formats.
4. A major (creative, musical or visual) work (Volume 1) and exegesis (Volume 2).

Irrespective of the form of thesis presented, examiners will expect a candidate to:

- produce a clearly, accurately and cogently written thesis that is suitably illustrated and documented
- demonstrate deep knowledge of the research topic
- relate the research topic to the broader framework of the discipline within which it falls
- demonstrate independence of thought and approach
- make a significant and original contribution to knowledge by the discovery of new facts, the formulation of theories, or the innovative reinterpretation of known data and established ideas.



Jointly awarded PhD programs with international collaborators (including the Cotutelle)

University of Adelaide international research students are also able to apply for PhD programs jointly awarded with an international collaborator. When the University partners with a French institution this is known as a 'Cotutelle'.

Adelaide works closely with a number of key international partners in this way, including those listed below:

Partner university	Fields of research
University of Freiburg (Germany)	Cancer and related biology; Paediatric and reproductive health
Shanghai Jiao Tong University (China)	Life science and biotechnology
University of Nagoya (Japan)	Medicine, medical sciences and biomedical engineering
University of Nottingham (UK)	All faculties/schools
University of Strasbourg (France)	Professions

This list of partner universities and associated research fields is not exclusive, but does reflect an emphasis Adelaide is keen to support. Joint awards may also be negotiated on an individual basis with any highly ranked international university that we already collaborate with or have sound strategic reasons to strengthen our links with.

It's very important that students carefully read and understand the conditions specified in the proposed joint agreement before committing to the program. This is because some joint agreements have special conditions attached in addition to the standard University of Adelaide requirements. For example, many European universities (including the United Kingdom) require an oral defence of a candidate's written thesis. The conditions of the joint agreement will be forwarded to students with their Offer of Admission to the program.

The key benefits of enrolling in an international jointly awarded PhD program are that it provides a means to:

- enhance two-way international research collaboration
- gain international study and experience at two high quality institutions
- work in two countries, experience different cultures and access specialist research facilities
- potentially access new funding sources
- develop professional networks.

International students wishing to apply for a jointly awarded PhD with the University of Adelaide as their partner institution must demonstrate, prior to application, that:

- they have been accepted into a PhD at an approved university
- they can satisfy the normal admission requirements (including all language proficiency requirements) at the University of Adelaide
- arrangements exist for an approximately equal sharing of candidature between institutions.

Enquiries concerning participation in cotutelle or other jointly awarded doctorates should be directed to **research_degrees@adelaide.edu.au** in the first instance.

Professional Doctorate

Course duration 2-4 years full-time

Availability Education and nursing

Adelaide offers two professional doctorates by research in the disciplines of education and nursing. Professional doctorates combine research, project activity and advanced coursework in a single program of study, and are specifically aimed at experienced practitioners in the field.

To qualify for a professional doctorate, a candidate is required to pass each component of the program individually and complete any coursework or project requirements, before submitting their thesis for examination.

Master of Philosophy

Course duration 1-2 years full-time

Availability All faculties

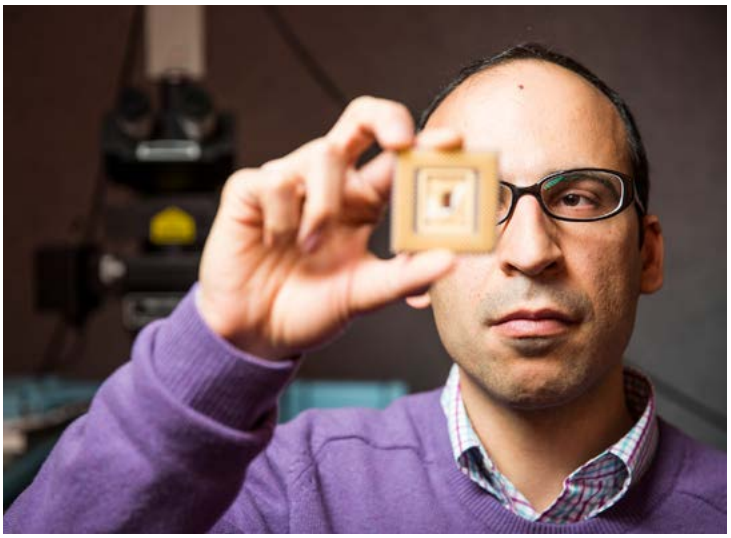
Stream
1. Mixed research and coursework
2. 100% research

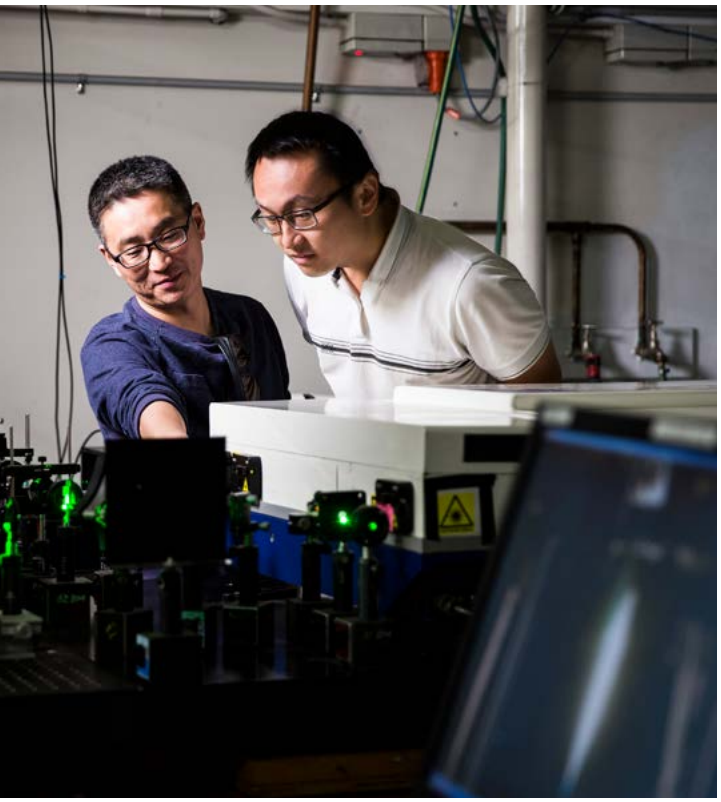
Where a student is approved to undertake a Master by Research by mixed research and coursework, one-third of the degree (15 credit points) will be completed by coursework and the remaining two-thirds of the degree by research, culminating in the production of a thesis.

The Master of Philosophy is offered in every University of Adelaide Faculty as the primary research master degree available to prospective research students. Master of Philosophy students are trained in research methodology and techniques, and engaged at an advanced level in the critical evaluation of literature and results in the substantive area of the thesis. Participation in the Career and Research Skills Training (CaRST) program is compulsory, and requires completion of 60 hours of activities prior to thesis submission.

While Master of Philosophy degrees may include an advanced coursework component, the focus is on research. Examiners of a Master of Philosophy thesis will be seeking evidence that the candidate has:

- a thorough understanding of the relevant techniques and methodologies in the field, as demonstrated by a thorough critical review of the literature
- demonstrated competence in the chosen field, through judicious selection and application of appropriate methodology to yield meaningful results
- demonstrated the capacity to critically evaluate these results
- presented a clear, well-written thesis.





Master of Clinical Science

Course duration 1-2 years full-time

Availability Faculty of Health Sciences

Streams available in mixed coursework and research, or 100% research streams.

The Master of Clinical Science provides an introduction to clinically based research for candidates presenting with clinical qualifications and experience.

As with the Master of Philosophy, where a student is approved to undertake a Master by Research by mixed research and coursework, one-third of the degree (15 credit points) will be completed by coursework and the remaining two-thirds of the degree by research, culminating in the production of a thesis.

The Master of Clinical Science is designed to:

- train candidates in literature analysis, research methodology and techniques
- develop critical evaluation skills appropriate to the chosen research topic
- train candidates in the application of research methods during the conduct of an independent, supervised research project, mutually agreed by the student, their supervisors and head of school
- facilitate the candidate's ability to translate research into improved clinical outcomes.

Students can choose to specialise in one of the following research areas:

- Nursing
- Medicine
- Dentistry
- Public Health
- Evidence Based Health Care
- Counselling and Psychotherapy.

ENGLISH LANGUAGE PROFICIENCY REQUIREMENTS

In accordance with the Department of Home Affairs' requirements, the University will not require English evidence for any applicant who is a citizen and holds a passport from one of the following countries: Canada (English speaking provinces only), New Zealand, the Republic of Ireland, the United Kingdom and the United States.

In accordance with the Department of Home Affairs' requirements, the University will not require English evidence for any applicant who has satisfactorily completed study at a Bachelor degree level or above from one of the following countries: Australia, Canada (English speaking provinces only), New Zealand, the Republic of Ireland, South Africa, the United Kingdom or the United States for:

1) at least one of the last two years preceding the date of commencement, or
2) at least two of the last five years preceding the date of commencement.

All other English evidence will only be considered for eligibility upon the assessment of a submitted application and on a case-by-case basis.

If English is not your first language, you will be required to demonstrate English language proficiency in the form of an English test that has been taken in the two years before applying for admission. However, please be advised that applicants applying for a Student Visa will be required to provide the Department of Home Affairs with a suitable English test that has been taken in the two years before applying for a Student Visa. For further details, please refer to: **https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-listing/student-500#Eligibility**

The University accepts the following test types:

- IELTS (International English Language Testing System) Academic
- TOEFL (Test of English as a Foreign Language) Internet Based Test
- PTE (Pearson Test of English) Academic
- C1 Advanced (formerly CAE - Cambridge English: Advanced)

Applicants wishing to enrol in the Pre-enrolment English Program (PEP) are required to meet the English requirements for Higher Degree by Research outlined at: **www.adelaide.edu.au/elc/our-courses/pre-enrolment-english-program-pep/how-many-weeks-of-pep-do-i-need/academic-english**

Applicants wishing to apply for a University of Adelaide scholarship must provide evidence that they meet the University's English language requirements for direct entry to the degree program before the scholarship closing date. Those intending to sit an appropriate English language test must ensure their official test results are provided prior to the scholarship closing date. Applicants who wish to be considered for a scholarship are not permitted to undertake the PEP as a way to meet the English language requirements.

Minimum English language requirements – academic entry criteria*

6.5
Minimum English language proficiency requirement

General requirements – applicable to all postgraduate research programs in the following academic areas:

- Australian School of Petroleum and Energy Resources
- Centre for Automotive Safety Research
- School of Architecture and Built Environment (Construction Management stream only)
- School of Chemical Engineering and Advanced Materials
- School of Civil, Environmental and Mining Engineering
- School of Computer Science
- School of Electrical and Electronic Engineering
- School of Mathematical Sciences
- School of Mechanical Engineering
- Teletraffic Research Centre for Mathematical Modelling

IELTS (Academic)	TOEFL (Internet based test)	Pearson Test of English (Academic)	C1 Advanced
Overall score: **6.5** All other bands: **6.0**	Total score: **79** Writing: **21** Speaking: **18** Listening and reading: **13**	Overall score: **58** All other bands: **50**	Overall score: **176** All other bands: **169**

6.5
Minimum English language proficiency requirement

General requirements – applicable to all postgraduate research programs in the following academic areas:

- Faculty of Health and Medical Sciences (except for the Schools of Nursing, Public Health and Psychology)
- The Joanna Briggs Institute
- Faculty of Sciences
- School of Economics
- Centre for Global Food and Resources

IELTS (Academic)	TOEFL (Internet based test)	Pearson Test of English (Academic)	C1 Advanced
Overall score: **6.5** Writing and speaking: **6.5** Listening and reading: **6.0**	Total score: **79** Writing: **24** Speaking: **22** Listening and reading: **13**	Overall score: **58** Writing and speaking: **58** Listening and reading: **50**	Overall score: **176** Writing and speaking: **176** Listening and reading: **169**

7.0
Minimum English Language Proficiency Requirement

Specific requirements – applicable to all postgraduate research programs in the following academic areas:

- Faculty of Arts
- School of Architecture and Built Environment (excluding the Construction Management stream)
- Faculty of the Professions (excluding the School of Economics and the Centre for Global Food and Resources)
- School of Nursing
- School of Psychology
- School of Public Health (except for the Joanna Briggs Institute)

IELTS (Academic)	TOEFL (Internet based test)	Pearson Test of English (Academic)	C1 Advanced
Overall score: **7.0** Writing and speaking: **7.0** Listening and reading: **6.5**	Total score: **94** Writing: **27** Speaking: **23** Listening and reading: **20**	Overall score: **65** Writing and speaking: **65** Listening and reading: **58**	Overall score: **185** Writing and speaking: **185** Listening and reading: **176**

** Applicable to applications submitted from 14 January 2020 onwards*

PEP FOR HDR PROGRAMS

(Higher Degree by Research)

The Pre-Enrolment English Program (PEP) is a direct entry pathway into further studies at the University of Adelaide for students that have not met the minimum English language entry requirements of their award program.

Entry into the University of Adelaide is dependent upon successful completion of the course components. If you successfully complete the Pre-enrolment English Program (PEP), you will not be required to complete another English test prior to entry into your chosen University program.

The length of your program depends on your English proficiency test score and the entry requirements of your intended program. The University of Adelaide accepts IELTS and C1 Advanced (formerly CAE: Cambridge English). For English Language Requirements for your intended program, please refer to the Degree Finder.

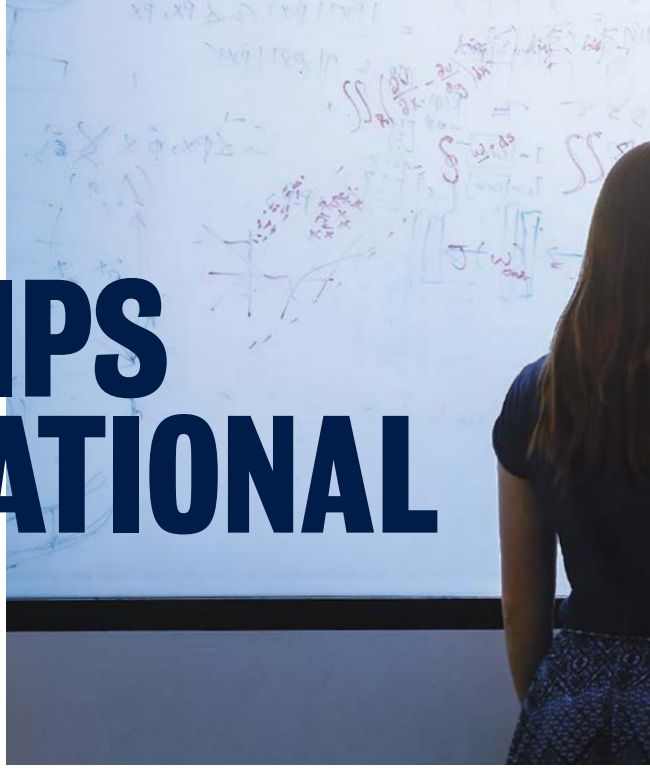
For entry to a Higher Degree by Research, the PEP is offered in lengths of 10 and 15 weeks. For more information please refer to: **www.adelaide.edu.au/elc/our-courses/pre-enrolment-english-program-pep/how-many-weeks-of-pep-do-i-need/academic-english**

English Language Centre (ELC)
The University of Adelaide
SA 5005 Australia

T: +61 8 8313 4777
F: +61 8 8313 4411
E: elc@adelaide.edu.au
W: www.adelaide.edu.au/elc

PEP Program (minimum length)	Overall Score of 6.5 with all band scores at 6.0	Overall Score of 6.5 with Writing and Speaking at 6.5 and Reading and Listening at 6.0	Overall Score of 7.0 with Writing and Speaking at 7.0 and Reading and Listening at 6.5
15 weeks	Overall band score of 6.0 and no band less than 5.0	Overall band score of 6.0 Writing and Speaking at 6.0 Reading and Listening at 5.0	Overall band score of 6.5 Writing and Speaking at 6.5 Reading and Listening at 5.5
15 weeks	Overall band score of 6.0 Writing at 5.5	Overall band score of 6.5 Writing and Speaking at 5.5 Reading and Listening at 5.0	Overall band score of 7.0 Writing and Speaking at 6.0 Reading and Listening at 5.5
10 weeks	Overall band score of 6.0 and no band less than 5.5	Overall band score of 6.0 Writing and Speaking at 6.5 Reading and Listening at 5.5	Overall band score of 6.5 Writing and Speaking at 7.0 Reading and Listening at 6.0
10 weeks	Overall band score of 6.0 and no band less than 5.5	Overall band score of 6.5 Writing and Speaking at 6.0 Reading and Listening at 5.5	Overall band score of 7.0 Writing and Speaking at 6.5 Reading and Listening at 6.0

*The University also accepts TOEFL iBT, Pearson and C1 Advanced test results. For information on entry scores for these tests, please visit: **www.adelaide.edu.au/elc/our-courses/pre-enrolment-english-program-pep/how-many-weeks-of-pep-do-i-need/academic-english***



SCHOLARSHIPS FOR INTERNATIONAL STUDENTS

The University of Adelaide offers several scholarship schemes for international students commencing postgraduate research in 2021.

For more information on scholarship opportunities and how to apply, visit: **www.scholarships.adelaide.edu.au/search**

Select 'International Students' and 'Postgraduate Research' to identify relevant funding opportunities. Each cohort has its own requirements and deadlines.

Selection for scholarships is extremely competitive. Recent successful applicants for research scholarships have usually achieved all of the following:

- a research master degree, or coursework master degree with a substantial research component
- outstanding academic performance at an internationally recognised university
- publications in internationally refereed journals
- relevant work or research experience.

The few applicants who win a scholarship directly out of undergraduate studies have exceptional academic results, high-quality international publications and outstanding references.

Internal scholarship opportunities

Applicants submitting during an application round will be considered for selection for all scholarships available in the round for which they are eligible. This is the most effective way to maximise the chances of obtaining a scholarship.

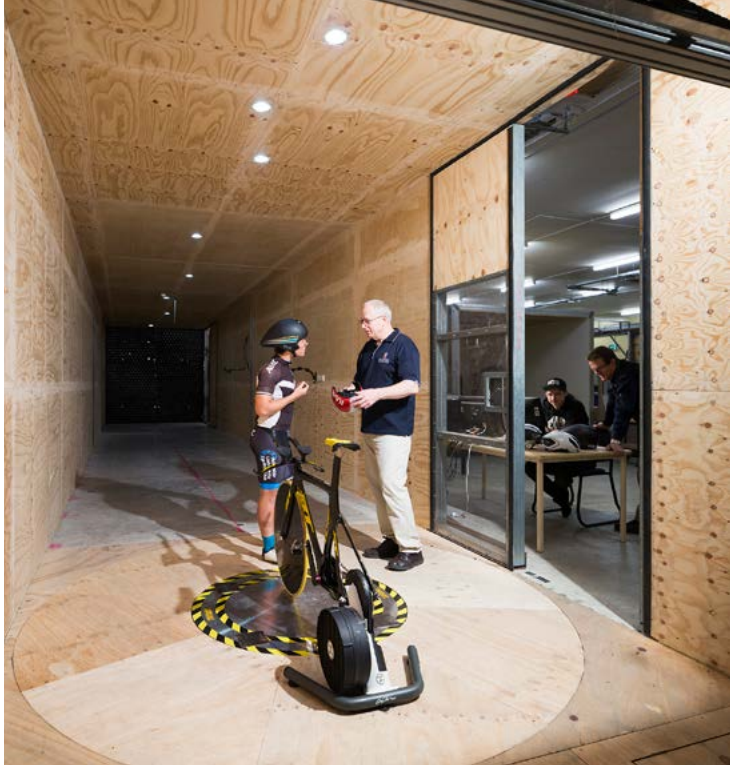
Australian Government Research Training Program Scholarships – International (RTP)

www.education.gov.au/research-training-program-frequently-asked-questions-students

RTP international scholarships are funded by the Australian Government through the Department of Education and Training. They are available to outstanding international applicants from any country who have an Australian honours result or equivalent, and are allocated within the first scholarship round, according to the terms and conditions specified in the University's Scholarship Policy (i.e. on the basis of academic merit, and alignment with the University's designated areas of research strength: **www.adelaide.edu.au/research/impact**)

Adelaide Scholarships International (ASI)

ASI are available to outstanding international applicants from any country who have an Australian honours result or equivalent, to support their study towards a higher degree by research in any field of study. These scholarships are awarded on academic merit and research potential, and are allocated within the University's scholarship rounds.



Adelaide Graduate Research Scholarships (AGRS)

(for University of Adelaide graduates only)

At the end of each semester, the University offers a number of AGRS exclusively to its recent international honours and master degree graduates, enabling them to continue their education via a research master degree or doctorate by research.

Master of Philosophy (No Honours) International Scholarships

(for University of Adelaide graduates only)

At the end of each semester, the University offers a number of Master of Philosophy (No Honours) International Scholarships exclusively to its recent international bachelor degree graduates, enabling them to continue their education via a master degree by research.

Full-Fee Scholarships (by nomination only)

The University may award Full-fee Scholarships to outstanding international students from any country to undertake postgraduate research. This involves payment of full tuition fees for two years for a master degree by research, or three years for a doctoral research degree (an extension is possible for doctoral programs only). No other allowances are provided.

Full-fee Scholarships are only allocated to international students who have been awarded a corresponding stipend by the host school, faculty, or research institute. They are not awarded to: individual privately sponsored students; or students supported by stipends provided to a sole individual without a formal agreement between the University and the sponsor. This requirement does not apply, however, to students nominated in grant applications made to recognised funding bodies, where a formal application is subject to peer review. Students in receipt of overseas government funding will be deemed ineligible for a fee waiver, unless a memorandum of understanding exists between the University of Adelaide and the sponsor to cover such awards.

Applicants must also: meet the minimum English language proficiency requirements for direct entry to their academic program; hold at least the equivalent of an Australian honours degree; and rank competitively against successful applicants in the current International Scholarship Order of Merit list. Applicants must be nominated by their principal supervisor and Executive Dean. Applications will be considered at any time.

China Scholarship Council: University of Adelaide Joint Postgraduate Scholarships program

The China Scholarship Council (CSC) and the University of Adelaide jointly offer postgraduate research scholarships to students from the People's Republic of China to undertake a postgraduate research degree at Adelaide. The University waives full tuition fees for selected students, and the CSC considers their applications for: a living allowance, as prescribed from time to time by the Chinese Government; return airfare to Australia, by the most economical route; and visa application fees. Scholarships under this program are for up to four years' study, subject to satisfactory academic progress.

Note: this information is correct at the time of publishing, but the University reserves the right to make changes as necessary at any time. The number of scholarships awarded will depend on candidate quality.

External scholarship opportunities

Endeavour Scholarships and Fellowships

(for international applicants)

Australia Awards Scholarships (AAS)

www.dfat.gov.au/people-to-people/australia-awards/Pages/australia-awards-scholarships

The University of Adelaide has contracted with the Department of Foreign Affairs and Trade (DFAT) to provide education services to AAS holders. AAS's purpose is to provide educational, research and professional development opportunities to support growth in partner countries, and build enduring links at the individual, institutional and country levels.

AAS benefits cover tuition fees, living costs, airfares and other expenses.

Candidates should apply directly to the AAS office in their home country.

Scholarships from home governments or universities

A number of overseas governments or universities sponsor their citizens to undertake research degrees at Australian universities. Sometimes this is under an agreement with the University of Adelaide, with the sponsor paying the tuition fees and a student living allowance. Examples are Indonesia, Malaysia and Vietnam.

There are many other sponsored students at the University of Adelaide, often without a formal agreement with the University. Students are encouraged to investigate whether there are such scholarship opportunities in their country.

MANAGING YOUR MONEY

As part of planning, applicants need to consider the financial requirements before applying at the University, and are advised to set a realistic budget.

Planning a budget

Adelaide is more affordable than other Australian cities, such as Sydney, Melbourne, Perth and Brisbane*. Accommodation is the largest variable expense. It can cost anywhere from around AUD $135 per week for shared private accommodation outside the city centre, to AUD $259 for University-managed accommodation within the city centre or AUD $400 for private sole-occupancy accommodation.

There can be large costs associated with setting up private accommodation, as most private rental houses and apartments are rented unfurnished.

** Source: Study Adelaide studyadelaide.com*

Tuition fees

International students are required to pay tuition fees. These are dependent on the program of enrolment and cover the cost of teaching, as well as many student support services. The quoted fee is a base fee that may be subject to a discretionary annual increase for each subsequent year of the degree. Each student will be advised of their appropriate fee schedule in their Offer of Admission to the University.

When accepting an Offer of Admission, new international students are required to pay a specified tuition fee deposit, which will be credited towards tuition fees in the first enrolment period. After enrolment, students or sponsors will receive an invoice for the balance of the fees due for that period.

Study-related costs

All students should allow at least AUD $500 per year for textbooks and basic study materials. Depending on the degree, other costs may include specialist equipment (e.g. laboratory coats, microscopes, stethoscopes), optional supplementary reading and academic program materials, field trips, and expenses such as thesis preparation, printing and binding.

Refund policy

All applicants must read the University's policy on refunds and adjustments before accepting an offer of admission. The policy complies with all requirements for tuition fee refunds stipulated in: the Education Services for Overseas Students (ESOS) Act 2000; associated Australian Government regulations; and the National Code of Practice for Providers of Education and Training to Overseas Students 2018.

For policy details, visit: **www.adelaide.edu.au/student/finance/refunds**

Health and medical

Student visa holders and their dependants are required to have health insurance for the duration of their student visa through the Overseas Student Health Cover (OSHC) scheme. The University's preferred provider of OSHC is Allianz Global Assistance. Visit: **www.allianzassistancehealth.com.au/en/student-visa-oshc**

For additional information, please refer to **www.international.adelaide.edu.au/life-on-campus/support-services**

Students with families

International students who bring their families to Australia will need to take into account additional costs associated with health cover, housing, food, transport, childcare and education. For information and advice, visit: **www.internationalstudents.sa.edu.au/en/students/dependants/children-of-full-fee-paying-international-tertiary-students/**

Part-time work

Many international students and their dependants hope to obtain part-time work to supplement funds for living costs. While this may be possible, we recommend students not rely on it for essential expenses. Obtaining a job is not guaranteed, and can take time. Students should also be aware the workload for many degrees is intense, so they may not have time to undertake employment.

International students who do find part-time work should be aware they have the same workplace rights as all other workers in Australia. For more information on working while studying, visit:

- www.immi.homeaffairs.gov.au
- www.fairwork.gov.au/find-help-for

STUDY-RELATED COSTS

This should be viewed as a guide only, as costs can vary significantly from one student to another. These are basic living costs at the time of publication and do not include program tuition fees, costs for textbooks, other study-related needs, running a car, medical expenses, or any luxuries

Before arrival

EXPENSE	COST (AUD)
Tuition Fee deposit (as specified in offer of admission)	$9,000
Overseas Student Health Cover**	$609–$3,300
Economy air travel to Adelaide	$1,200–$2,000
Visa application charge^	$560
Medical examination for visa application#	$300
Refundable deposit for University-managed rental accommodation (if applicable)	$500

After arrival

EXPENSE	COST (AUD)
All students:	
Rent in advance	2 weeks' rent
Household set-up (linen, groceries, etc.)	$500
Remainder of tuition fee	Refer to offer letter
Private accommodation options only:	
Refundable accommodation bond	4-6 weeks' rent
Electricity and gas connection	$38–$72
Landline telephone/Internet connection	$59–$299
Furniture and household goods	$1,000+

Average weekly living expenses*

EXPENSE	COST (AUD)
Accommodation	$135–$400
Groceries	$90–$135
Gas/electricity/water	$40–$55
Transport (student concession rates)	$20–$35
Telephone/postage/Internet	$20–$40
Other costs (e.g. clothing, entertainment)	$50+
Total weekly expenses	**$355–$705**

* *Source: Study Adelaide*

** *The Department of Home Affairs requires all students to have health insurance for the duration of their visa. Visa length varies and is slightly longer than the length of a student's degree. The fee quoted here is for 12 month's cover.*

\# *Approximate cost for standard examination only. Additional costs may be incurred if more comprehensive medical exams are required.*

^ *Surcharge may apply to some subsequent student visa applications.*

OUR CAMPUSES

The University of Adelaide has three campuses in South Australia: North Terrace, Roseworthy and Waite, and a new campus at Melbourne.

NORTH TERRACE CAMPUS

The University's main campus on North Terrace is renowned for its historic architecture and lively atmosphere. Located in the heart of Adelaide's central business and shopping district, the campus is adjacent to the State Library, Festival Theatre, South Australian Museum, Art Gallery of South Australia, Adelaide Zoo, and Botanic Gardens.

The University's Adelaide Health and Medical Sciences building is also within walking distance, in the South Australian Health and Biomedical Precinct.

WAITE CAMPUS

The Waite campus is home to the internationally renowned Waite Research Institute—the largest agricultural research institute in the southern hemisphere and third largest in the world. A number of research partners are also co-located there. Staff and students work closely with these organisations, providing a unique opportunity for collaboration on national and international research projects. Research areas include wine, plant biotechnology, plant breeding, sustainable agriculture and land management.

The campus is located eight kilometres south of the city centre and is easily accessible by public transport and a Waite-North Terrace campus shuttle bus service. Campus services include a childcare centre, library, cafe, gym and sporting facilities.

ROSEWORTHY CAMPUS

Roseworthy campus is an internationally renowned centre for excellence in dryland agriculture, natural resource management and animal production. Set on over 1,600 hectares of land, it is home to South Australia's only veterinary school. It features an AUD $37 million veterinary clinic, where students can gain clinical experience while studying.

The campus is located 55 kilometres north of Adelaide and 10 kilometres from the town of Gawler (population 26,000). Access is available by a North Terrace-Roseworthy campus shuttle bus. Campus services include student accommodation, a swimming pool, library, cafe and fitness centre.

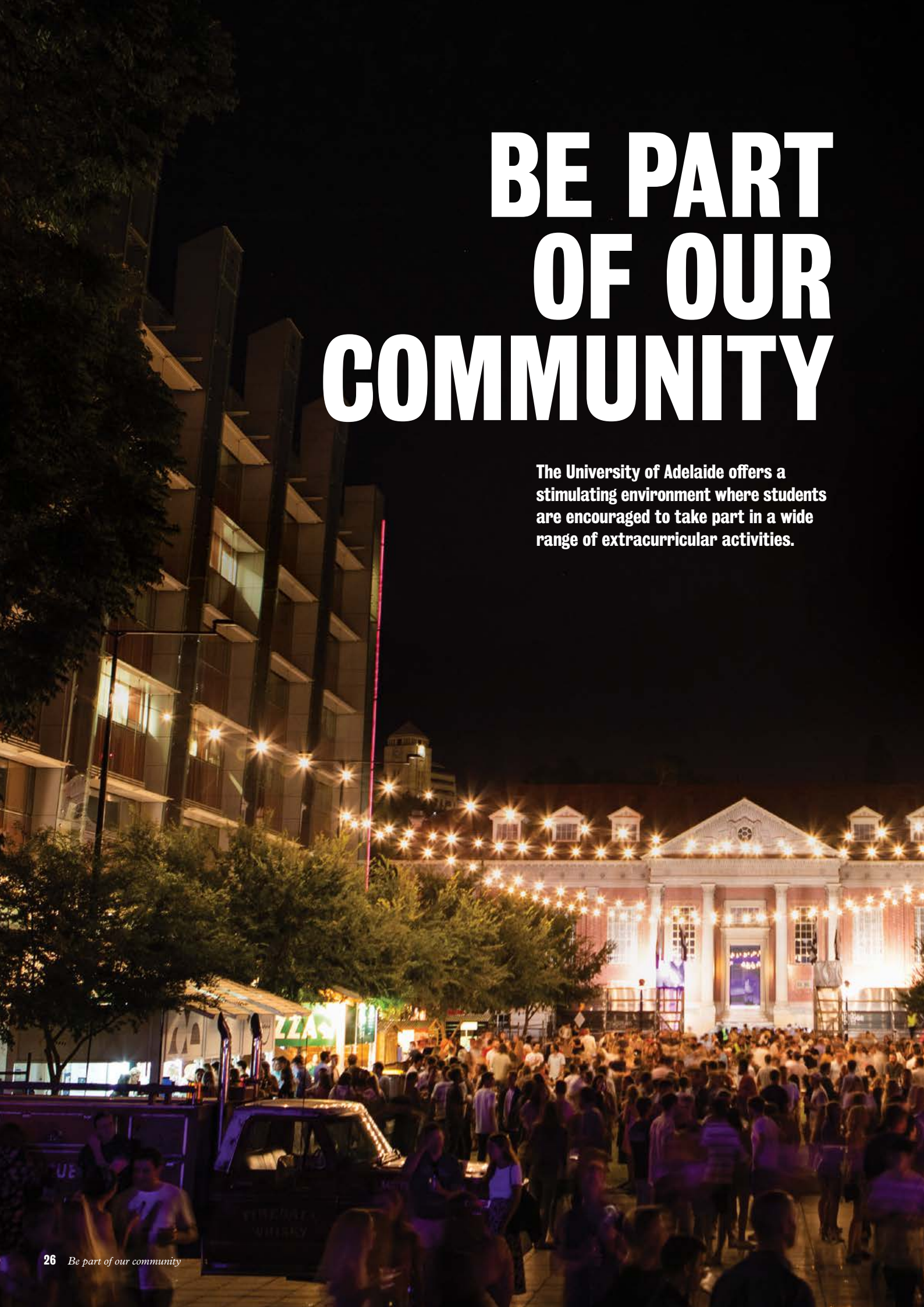
MELBOURNE CAMPUS

Our Melbourne campus is located on the western fringe of the city in Docklands. The free city circle tram stops at our front door, and there is high-end shopping, cinemas and hotels in the neighbourhood.

We offer a selection of degree programs at both the undergraduate and postgraduate levels. For information about the campus visit: **www.adelaide.edu.au/melbourne**

BE PART OF OUR COMMUNITY

The University of Adelaide offers a stimulating environment where students are encouraged to take part in a wide range of extracurricular activities.



Social programs

www.international.adelaide.edu.au/life-on-campus/social-programs-clubs-and-sports

The University offers a variety of social programs to help international students adjust to their studies and make new friends. These include ongoing English conversation practice (Talking with Aussies), regular culturally-themed social nights (Language and Cultural Engagement program), a chance to improve intercultural and employability skills (Global IQ Connect) and opportunities to develop leadership and employability skills (Peer Mentor program).

StudyAdelaide

www.studyadelaide.com

StudyAdelaide provides information and support to students both before they arrive in Adelaide and after they settle into life in their new home. It conducts a busy schedule of events and activities each year. These include everything from a welcome ceremony with the Lord Mayor, international student awards, career advancement workshops, wine education functions, regional trips and social events, such as sports days.

Facebook: www.facebook.com/studyadelaide
Twitter: @studyadelaide
Instagram: @studyadelaide

Life on campus

Adelaide University Union
www.auu.org.au

Student services

Student Care
www.auu.org.au/services/student-care

Employment
www.auu.org.au/services/employment

Volunteering
www.auu.org.au/get-involved/volunteer

Special-interest and social clubs
www.auu.org.au/clubs

Student media

On Dit
www.auu.org.au/get-involved/ondit

Sporting clubs and facilities

Adelaide University Sport
www.adelaide.edu.au/sports

The Fitness Hub
www.thefitnesshub.com.au

WE'LL SUPPORT YOU ON YOUR JOURNEY

The University offers a range of support services to help international students succeed at university.

Friendly staff are available to help students manage their studies, assist with student visa-related queries, help with health or disability needs, support students as they fit into their new life in Adelaide, and help solve personal problems. In addition, doctors at the North Terrace campus' Health Practice can provide students with year-round health support.

International Student Support
Ongoing, one-on-one support from international student advisors, orientation and social programs for all students, and assistance with Confirmation of Enrolment (CoE) and student visa-related queries.
www.ua.edu.au/iss

Careers Service
Advice and workshops to help students develop employability skills, a Career Hub database of employment opportunities, and annual career-related events including the Careers Expo.
www.adelaide.edu.au/student/careers

Writing Centre
Support with writing academic English through one-on-one advice from writing mentors, workshops, and comprehensive support resources.
www.adelaide.edu.au/writingcentre

Maths Learning Centre
Help for all students to develop mathematics skills at every level, with drop-in sessions, lectures, games, and resources.
www.adelaide.edu.au/mathslearning

Childcare
Full-time and part-time care for children of students and staff, located on the North Terrace and Waite campuses.
www.adelaide.edu.au/childcare

Counselling Support
Professional and confidential one-on-one support for students encountering issues that affect their study and life.
www.adelaide.edu.au/counselling

Disability Support
Support for all students who have an ongoing medical condition, to help them focus on their studies.
www.adelaide.edu.au/disability

Elite Athlete Support
Support to help student athletes balance their academic and sporting commitments, by providing a flexible and responsive approach to study.
www.adelaide.edu.au/eliteathletes

Health Practice
Comprehensive health care for all students and staff, including male and female doctors (GPs), health checks, immunisations, and mental health support.
www.adelaideunicare.com.au

Library
One of the state's most extensive research collections, quiet study spaces, and support from specialist research librarians.
www.adelaide.edu.au/library

Peer Assisted Study Sessions (PASS)
Regular extracurricular sessions led by student mentors to help students improve their grades in specific courses.
www.adelaide.edu.au/pass

A PLACE TO CALL HOME

Accommodation plays an important part in building a solid foundation for academic success.

Students benefit from the advantages that come from choosing to study in a city where accommodation of all types, including our University-managed accommodation, is not only accessible but affordable.

The University recommends students adopt the **RECAS** approach to identifying an accommodation option to suit their individual needs and support a positive educational experience.

- **R**esearch all available accommodation options
- **E**stablish a realistic budget
- **C**onsider the value of managed student accommodation
- **A**void extended temporary accommodation
- **S**eek assistance from the University Accommodation Service

Students unfamiliar with Adelaide are encouraged to consider living in managed student accommodation during their first year of university.

Managed student accommodation provides new students with the opportunity to become better acquainted with the city, settle into their academic program and make new friends, without having to worry about the challenges of the private rental market.

Long-term student accommodation

www.adelaide.edu.au/accommodation

The University assists international students to obtain suitable longer-term housing. Students may choose any of the following options.

The University of Adelaide Village

The University of Adelaide Village is the largest of our accommodation properties. The Village is home to over 400 students, who experience the safety and security of having access to University staff on-site, 24 hours a day, seven days a week.

Students need only bring their personal belongings, as furniture, kitchen appliances, utilities (including electricity), phone and Internet are all included in the accommodation fees. The only additional costs are for meals (students must cook and clean for themselves) and the on-site, coin-operated laundry facilities.

Roseworthy Residential College

This accommodation is operated by the University and is only available to students of the University's Roseworthy campus, offering them the opportunity to enjoy the benefits of on-campus residential living.

Independent residential colleges

There are five independent residential colleges situated in North Adelaide that offer accommodation to students. These independent residential colleges are privately owned and operated. They are not owned or operated by the University.

Students can contact the residential colleges directly to better understand what's available. These residential colleges include: Aquinas, Lincoln, St Ann's, St Mark's and Kathleen Lumley College.

Commercial student accommodation

Commercial student accommodation refers to purpose-built off-campus student accommodation facilities, run by private management companies not affiliated with the University of Adelaide. These facilities offer fully-furnished, self-contained apartments that give students flexibility to live alone or share with others. There are also rooms for couples.

In addition to rent, students may need to budget for additional expenses, including:

- gas
- electricity
- telephone connection (optional)
- Internet connection (optional).

Places in commercial student accommodation facilities are offered on a 6 or 12-month fixed-term lease. It's important to note that these facilities are not directly affiliated with the University of Adelaide and students are advised to inspect them before committing.

Private rental and share accommodation

Affordable share accommodation can also be found in the private rental market, so the University offers a rental database (**www.adelaide.edu.au/accommodation**) for our students' exclusive use.

Our enrolled students can access the database from our Accommodation Service, Level 4, Hub Central, North Terrace campus, with a user name and password. The database is only promoted among the University community, and most accommodation listings are offered by people affiliated with us who would like to share their room/property with a University of Adelaide student.

Students wishing to find share or rental accommodation when they arrive in Adelaide are encouraged to book temporary accommodation in the first instance.

Once in Adelaide, students should visit the University's Accommodation Service for information on all available options and support in identifying and securing quality long-term living arrangements. Students are discouraged from sending money from offshore to secure share or rental accommodation prior to inspecting it.

LONG-TERM STUDENT ACCOMMODATION OPTIONS

This table matches long-term student accommodation options to individual needs.

Type	Options	Student profile
University residential environments	University-managed student accommodation	New students to the University, without a local support network, looking to establish a solid foundation for ongoing academic success, with direct access to University learning and student support services within their residential environment.
Commercial student accommodation	Urbanest	Students looking for the convenience and comfort of packaged accommodation in a student residential environment.
Independent residential environment	Independent residential colleges	Students looking for an environment that provides a residential lifestyle with other peers who are living away from home.
Independent living	Share/rental accommodation	Students with the skills and experience to enter into tenancy arrangements and pursue an independent lifestyle.

Accommodation for families

Students accompanied by family members will find private rental accommodation in houses or apartments the most suitable accommodation option.

It's easier for an individual student to initially travel to Adelaide on their own to arrange suitable permanent family accommodation. Spouses and children who arrive later can then move straight in.

Arrival reception and temporary accommodation

Temporary accommodation and arrival reception services are available to commencing international students. Eligible students can book an arrival reception service and be met by a University representative at Adelaide Airport, via a domestic or international flight. Students will then be transported to their accommodation.

Eligible students who choose not to secure long-term managed student accommodation for their arrival in Adelaide may also be eligible for seven nights of temporary accommodation booked through the University. It is important to note that temporary accommodation options arranged through the University are unlikely to be extended further than a period of seven nights due to high demand for short-term accommodation during the traditional student intake periods.

For more information on eligibility criteria, arrival reception and temporary accommodation services, contact Accommodation Services (see below).

For more information, visit:
www.adelaide.edu.au/accommodation

Accommodation Service

Opening hours: 9am to 5pm
Monday to Friday

The University of Adelaide
Level 4, Hub Central, SA 5005 Australia

Telephone: +61 8 8313 5220
Fax: +61 8 8313 3338
Email: accommodation@adelaide.edu.au
Web: www.adelaide.edu.au/accommodation
Skype: uoaaccommodation

ADELAIDE
THE PERFECT CITY FOR STUDENTS

Adelaide has a bustling, energetic city centre and is renowned for its festivals, cultural life and sporting events. With great shopping, beaches, a cafe culture, affordable student accommodation and friendly residents, Adelaide offers a relaxed lifestyle with all the convenience of city living.

A truly liveable city

Safe and relaxed, Adelaide is ranked as one of the world's top 10 most liveable cities.

Source: Economist Intelligence Unit Global Liveability Index 2019.

Australia's most affordable mainland city

Adelaide is one of the most affordable mainland Australian cities, with a cost of living up to 14% lower than Sydney and Melbourne.

Source: Study Adelaide ***www.studyadelaide.com***

Culturally diverse

South Australians hail from over 120 different countries, creating a wonderful mix of cultures and influences. One in five South Australians were born overseas!

QUICK STATS

AREA 985,335 km²

CAPITAL Adelaide

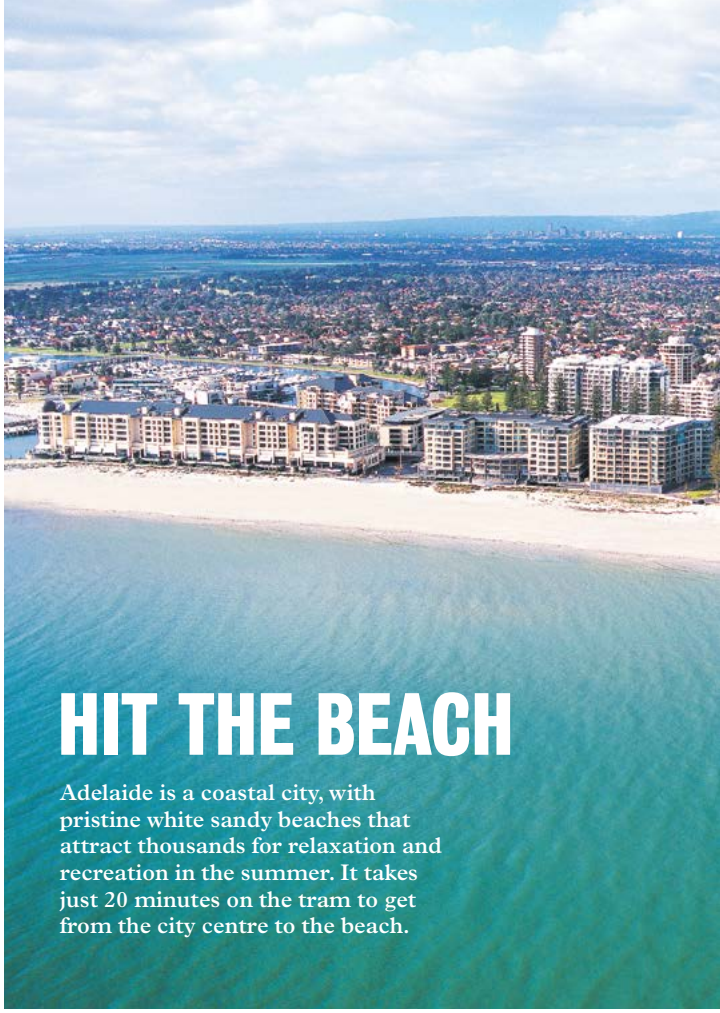
COASTLINE 4,800 km (with over 100 islands)

POPULATION Adelaide: 1.3m South Australia: 1.7m

OFFICIAL LANGUAGE English

CURRENCY Australian dollar (AUD)

MAJOR INDUSTRIES Includes bioscience, defence, minerals and energy, and wine



HIT THE BEACH

Adelaide is a coastal city, with pristine white sandy beaches that attract thousands for relaxation and recreation in the summer. It takes just 20 minutes on the tram to get from the city centre to the beach.

Rundle Street, East End

Glenelg Beach

La Moka cafe

Adelaide Central Market

LIVE CENTRALLY

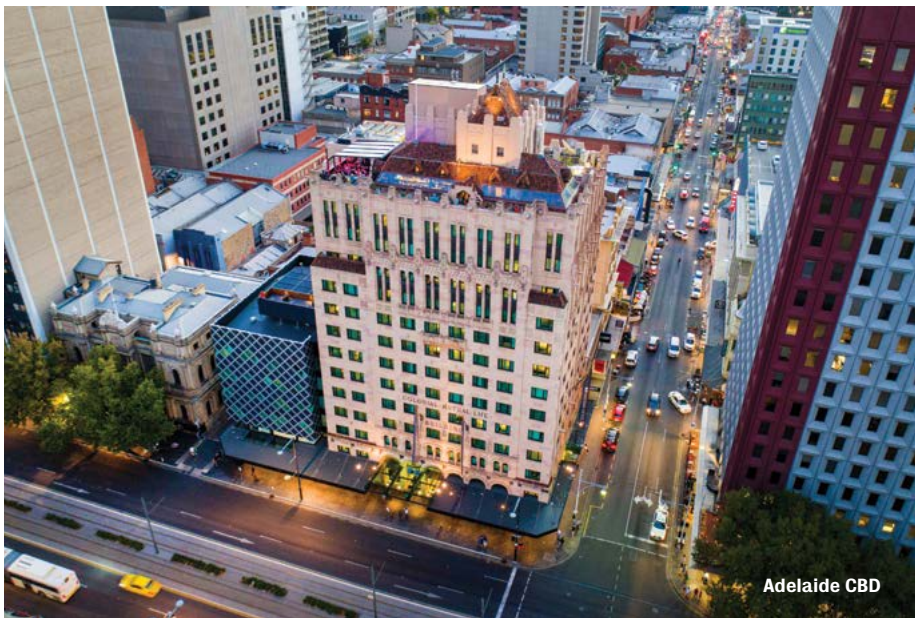
Student accommodation is more affordable in Adelaide than in many other Australian cities, and much of it is in the heart of the CBD. Many students can simply walk to their lectures.

CAFÉ CULTURE

Adelaide is one of Australia's most cosmopolitan cities, with an array of cafés, restaurants and shops reflecting the diversity of its ethnic communities. Adelaide is reputed to have more cafés and restaurants per head of population than any other city in Australia.

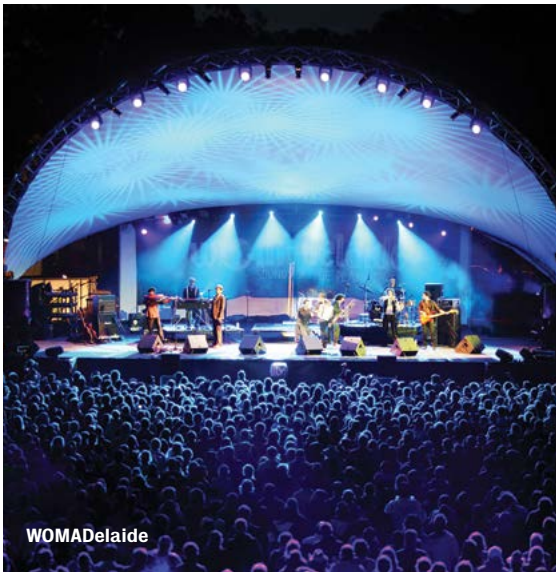
EASY TO GET AROUND

Adelaide is a vibrant city that's easy to navigate. Broad, spacious boulevards accommodate an efficient network of public buses, trains and trams, with international students receiving the same discounts as locals.


Adelaide CBD

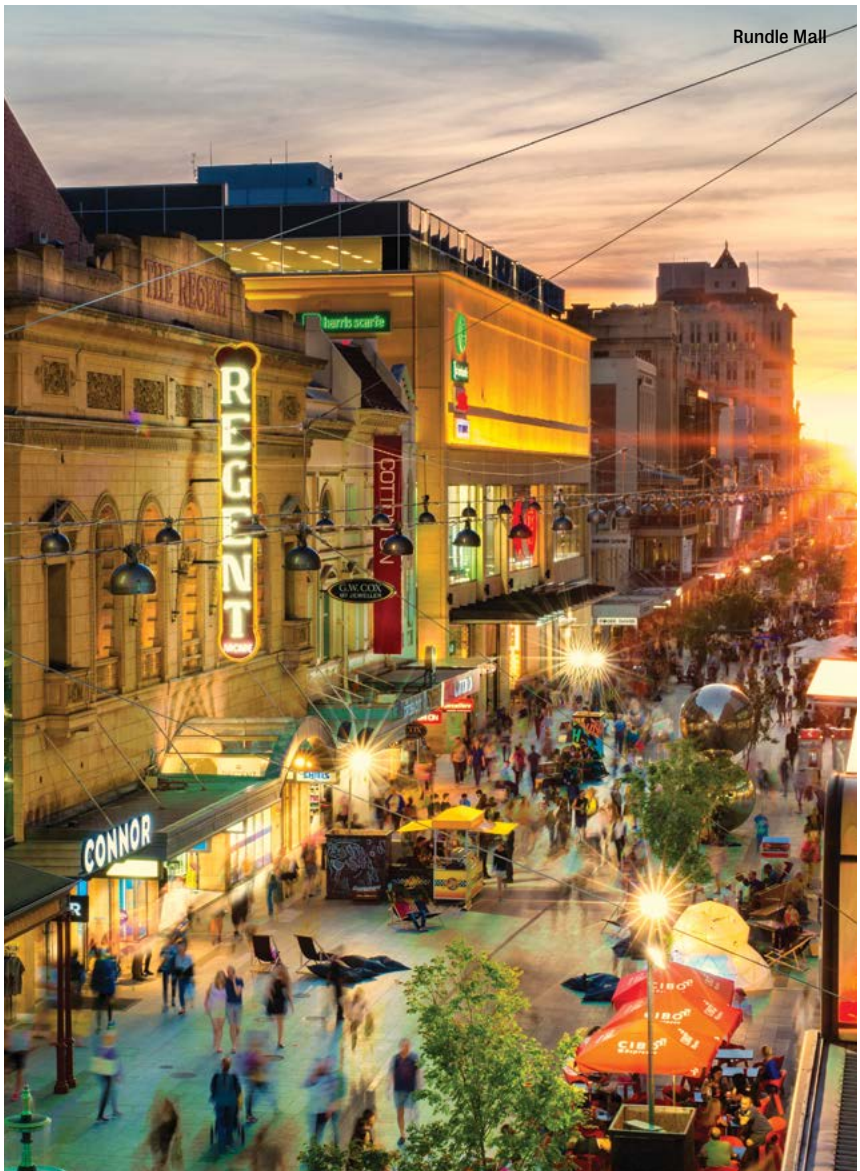
Adelaide Fringe Festival


Adelaide Oval


WOMADelaide

FESTIVAL FEVER

South Australia is known as the festival state of Australia because of the large number of national and international cultural and sporting festivals it hosts per year.



Rundle Mall

CLIMATE

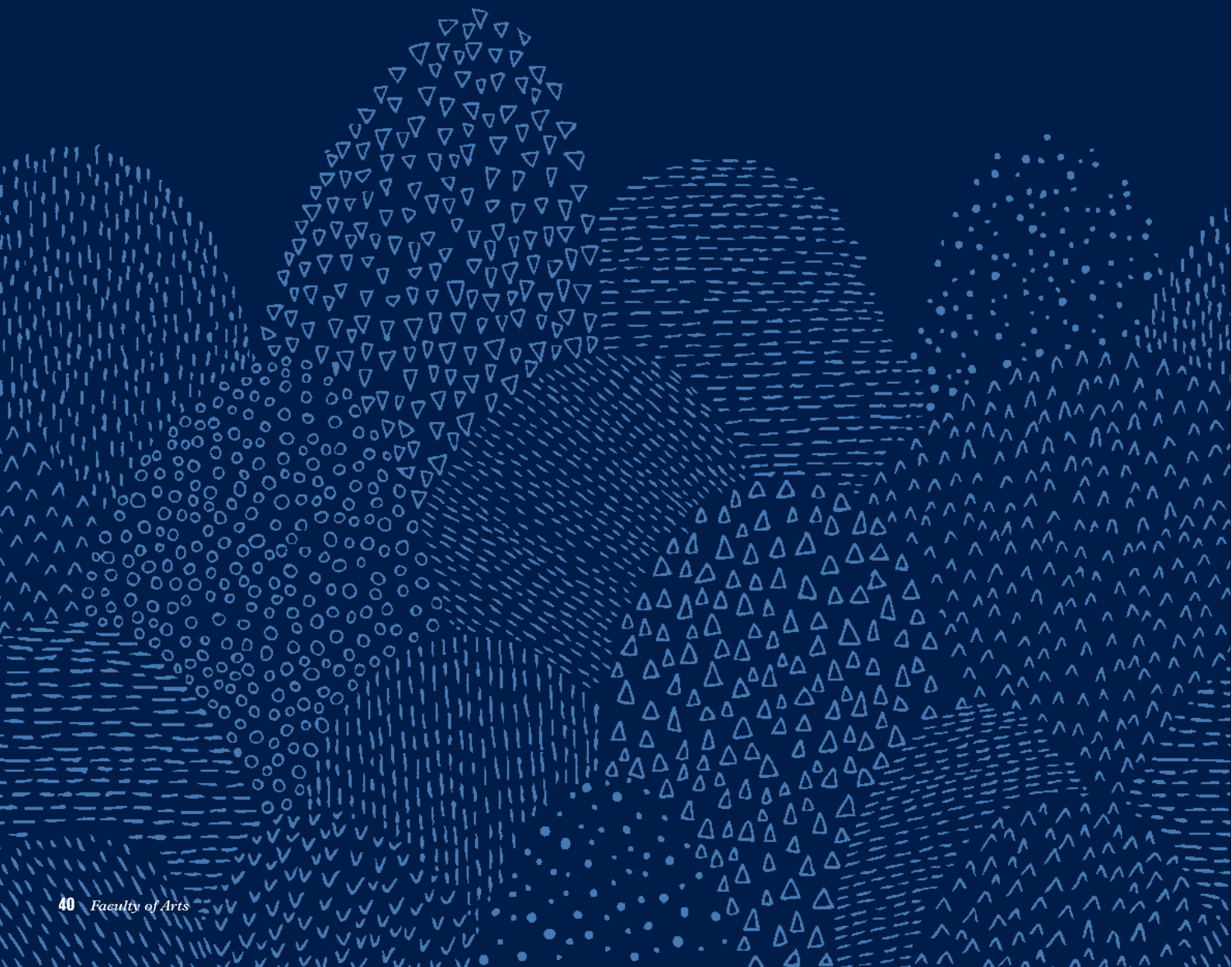
Warm, dry summers and short, mild winters. Over 300 days of sunshine per year.

SEASON	MONTHS	CONDITIONS	TEMP
Summer	Dec – Feb	Mainly hot/dry	25 – 35°C
Autumn	Mar – May	Mainly dry	20 – 25°C
Winter	Jun – Aug	Cool and wet	10 – 15°C
Spring	Sept – Nov	Some rain	20 – 25°C

SHOPPING

Adelaide boasts a range of shopping experiences comparable to anywhere in Australia. Within the CBD, Rundle Mall has the biggest concentration of department and chain stores, while within walking distance are trendy boutiques, pubs and cafés.

FACULTY OF ARTS



The Faculty of Arts has a reputation for outstanding research in a wide range of fields, including the humanities, social sciences, education and music. Our focus on excellence in teaching, learning and research produces graduates with the skills and knowledge to make a difference in society.

A postgraduate qualification from the University of Adelaide is highly regarded and internationally recognised. A wide range of specialisations are available, and all include high-quality research skills and career preparation.

Postgraduate arts students work closely with leading researchers who have excellent track records in postgraduate supervision. We regularly host seminars, workshops and public lectures by visiting scholars and creative practitioners, all of whom foster our vibrant, innovative and creative research culture.

Research areas

Our researchers have an international reputation for excellence. In 2018, our research was ranked by the Excellence in Research for Australia initiative as above, or well above, world standard in historical studies, performing arts, music, creative writing, and philosophy.

Other areas of strength include human geography, housing research, politics and international relations, cybersecurity, health-related studies and policy, public and social policy, environmental studies, gender studies, anthropology and development studies, sociology, criminology, classics, literary studies, media, European and Asian languages (French, German, Spanish, Chinese and Japanese), musicology, ethnomusicology, creative arts, digital humanities, food security, Indigenous music, ICT/digital education, education, Australian studies, linguistics and endangered languages.

Research centres

The Faculty's commitment to fostering ground-breaking research and research training is evident in its five high-performing research centres:

- Centre of Excellence for the History of Emotions
- Hugo Centre for Migration and Population Research
- Centre for Housing, Urban and Regional Planning
- Fay Gale Centre for Research on Gender
- J.M. Coetzee Centre for Creative Practice.

Faculty staff and students are also involved in other University-wide research institutes including the Environment Institute and the new Stretton Institute which focuses on public and social policy research.

We provide a dynamic and intellectually stimulating environment in which you and your research can thrive.

Executive Dean
Professor Jennie Shaw

Deputy Dean Research
Professor Rachel A. Ankeny

Director of Graduate Studies
Associate Professor Natalie Edwards

E: arts@adelaide.edu.au
W: www.arts.adelaide.edu.au

RAHWA KIDANE

Environmental Studies

"I feel privileged to have graduated with a PhD in Environmental Studies from the University of Adelaide. The university is a great place for students who have a strong passion to undertake research.

During my studies, I had the opportunity to work with excellent supervisors who guided me to conduct high quality research. I have also benefited from the faculty members, staff and PhD students who made my PhD journey rewarding. I am now working in Ethiopia, conducting research and teaching students at Mekelle University.

I am very grateful for the way that the University of Adelaide has prepared me for this successful academic career."

EDUCATION

TOP 3 REASONS TO RESEARCH EDUCATION AT THE UNIVERSITY OF ADELAIDE

1

Strong nexus between research, learning and teaching

2

Research engagement based on national priorities and international trends

3

Dedication to research that values knowledge generation, critical thinking and community building

The School of Education offers a wide range of research expertise building on existing understandings of learning, building community, and providing contemporary evidence-based approaches to new methodologies, technologies and pedagogies which enhance education outcomes.

Industry and research partnerships

Our award-winning team has strong local and international partnerships with the Department for Education (DfE), the International Positive Psychology Association, Globalex lexicographical association, Apple, the Australian Council for Educational Leaders, the Australian College of Educators, the Higher Education Research Group of Adelaide, the South Australian Science Teachers Association and the OECD.

We have over 100 students undertaking research at Masters or PhD level addressing some of the most challenging educational issues of our time.

Research groups

There are two research groups in the School of Education:

- Education, Technology and Culture
- Enhancing Educational Outcomes Research Group

Research areas

School staff have a wide range of interests and are able to supervise postgraduate students in these areas:

- teacher education
- wellbeing education
- education and technologies
- virtual and augmented reality
- transcultural and global education
- educational leadership
- science and mathematics education
- large-scale assessment, measurement and evaluation
- curriculum, learning and teaching
- higher education scholarship.

To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.arts.adelaide.edu.au/education/research**

Further information or advice

School of Education, Level 8
Nexus 10 building, 10 Pulteney St
The University of Adelaide
SA 5005 Australia

T: +61 8 8313 0694
E: education@adelaide.edu.au
W: www.education.adelaide.edu.au

YULI ASTIANA

“The University of Adelaide has provided diverse experiences for exploration. The CaRST program has become a nexus to interact with colleagues from various backgrounds and equipped my PhD journey to be better prepared. My topic on peace and counter-radicalisation education provides a space to explore interdisciplinary narratives supported by a very warm world-class supervisory team.”

SUPERVISOR SPOTLIGHT

FAYE MCCALLUM

Head of the School of Education

Fields of research

- Wellbeing education
- Attraction, retention and sustainability of teachers in rural areas
- Teacher education

Awards

- Dr Alby Jones Gold Medal, Australian Council of Educational Leadership (ACEL-SA), 2019
- Honorary Golden Key Award (for contributions to teacher education), 2015
- Australian Research Council Linkage Grant for 'Renewing the teaching profession in regional areas through community partnerships', 2011-15
- Member, Australian College of Education (South Australian Chapter)
- Finalist, Telstra Women's Business Awards, 2020

Why research wellbeing education at the University of Adelaide?

Researchers are increasingly concerned about wellbeing factors such as the social, emotional and cognitive domains that impact learning and work. Schools continue to grapple with wellbeing issues as they respond to disruption caused by local or global crises. McCallum's research contributes to the growing international research on wellbeing in schools, in particular teacher and leader wellbeing.

Wellbeing in education is a critical contemporary challenge for all educators, and the sustainability of the teaching profession demands that researchers take the issue seriously. Teachers' wellbeing has a direct influence on the learning outcomes of students as they prepare for the future.

Projects students may be interested in

- Teacher wellbeing
- Wellbeing for educational leaders
- Early-career teachers' transition and wellbeing
- Wellbeing and educational communities
- Initial teacher education challenges and issues
- Teacher education reform

Recent publications

White, M., & McCallum, F. (2020). 'Responding to Teacher Quality through an Evidence-based Wellbeing Framework for Initial Teacher Education' pp. 115-137. In Jillian Fox, Colette Alexander & Tania Aspland, (Eds.), Teacher Education in Globalised Times: Local Responses in Action. Springer Press.

McCallum, F. (in press) Teacher and Staff Wellbeing: Understanding the Experiences of School Staff. In M. Kern & M. Wehmeyer (Eds). The International Handbook on Positive Education. Palgrave McMillan.

White M., & McCallum., F. (in press). Critical Perspectives on Teaching, Learning and Leadership: Enhancing Educational Outcomes. Dordrecht : Springer Netherlands.

McCallum, F. (in press). The changing nature of teachers' work and its impact on teacher wellbeing. In M. White & F. McCallum (Eds). Critical Perspectives on Teaching, Learning and Leadership: Enhancing Educational Outcomes. Dordrecht : Springer Netherlands.

White, M. & McCallum, F. (2019). 'The Wellbeing Framework for Initial Teacher Education', In The Global Happiness and Wellbeing Policy Report 2019, The Global Council for Happiness and Wellbeing. New York: Sustainable Development Solutions Network, pp. 57-9.

McCallum, F. Price, D. Graham, A. & Morrison, A. (2017). Teacher Wellbeing: A Review of the Literature, Association of Independent Schools NSW.

McCallum, F. & Price, D. (eds) (2016). From Little Things, Big Things Grow: Nurturing Wellbeing Development in Education, New York: Routledge.

Hazel, S. & McCallum, F. (2016). 'The experience is in the journey: an appreciative case study investigating early career teachers' employment in rural schools', Australian and International Journal of Rural Education, 26(2), pp. 19-33.

HUMANITIES

TOP 3 REASONS TO RESEARCH HUMANITIES AT THE UNIVERSITY OF ADELAIDE

1

Supervision by enthusiastic, high-profile and award-winning researchers

2

Undertake cutting-edge research that enriches human life

3

Be part of a stimulating intellectual community with like-minded peers

The School of Humanities has specialised researchers and supervisors in the departments of: art history, classics including archaeology and ancient history; English and creative writing; history; philosophy, linguistics, media; French studies; German studies and Spanish studies. Supervision across departments may be possible depending on the topic of interest.

Research centre

J.M. Coetzee Centre for Creative Practice
(jointly with Elder Conservatorium of Music)

adelaide.edu.au/jmcoetzeecentre

The JM Coetzee Centre is an interdisciplinary home for research that combines forms of creative practice with rigorous critical thinking. Our members provide supervision across the arts (esp. music and sound, creative writing, literary nonfiction and performance.) We are especially interested in supervising projects that integrate disciplinary knowledges with creative making and an innovative use of creative form.

Research areas

Art History

The department is led by a research-active art historian with research expertise and teaching specialisation in early modern European art (1400-1800), including:

- Renaissance art, especially of northern Europe
- portraiture
- representations of gender, bodies, and fashioning cultural identities
- art and war
- materials and materiality
- curatorship and museology.

T: +61 8 8313 4249
E: humanitiesoffice@adelaide.edu.au
W: www.arts.adelaide.edu.au/art_history

To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.arts.adelaide.edu.au/our-research**

Classics, Archaeology and Ancient History

Staff in the Department of Classics, Archaeology and Ancient History have research and teaching expertise in:

- the history of scientific and medical thought in Greece and Rome
- Greek and Roman philosophy up to AD 600
- emotion and pain narratives in Greek and Latin literature
- Roman and Late Antique archaeology, especially of Syro-Palestine Eastern Mediterranean World
- aspects of late Roman social and cultural history up to AD 600.

In addition, we can supervise research into aspects of:

- Roman imperial history
- Roman historiography
- Latin poetry from the Late Republic to Late Antiquity
- Greek and Roman myth.

T: +61 8 8313 4249
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W: www.arts.adelaide.edu.au/classics

DOOK SHEPHERD Philosophy

“My experience as a PhD candidate has been the most transformative of my life. Our philosophy department and post graduate cohort have guided and enabled my capacity to delve into mystery and develop my own thinking, enhancing my clarity of thought, reflexivity, and understanding. World class philosophical training at the University of Adelaide has afforded me the opportunity to travel, contribute and collaborate with philosophers across the planet. In this, my confidence and competence dealing with complexity and critical thinking has been nurtured and shaped by the profound wisdom of our department, which I carry with me always. In a word: Empowering.”

SUPERVISOR SPOTLIGHT

KATIE BARCLAY

Associate Professor

Fields of research

- History of emotions
- History of the family
- Gender studies
- British history, especially Scotland and Ireland
- Subjectivity and selfhood

Awards

- 2018 Royal Historical Society David Berry Prize
- EURIAS Marie Curie Fellowship, Aarhus Institute for Advanced Studies, Denmark (co-funded by Marie SklodowskaCurie Actions, under the European Union's Seventh Framework Programme), 2017
- University of Adelaide Research Fellowship, 2017
- Vice-Chancellor's Women's Research Excellence Award, University of Adelaide, 2015
- Discovery Early Career Research Fellowship (funded by the Australian Research Council), 2014

Why should students study with the University of Adelaide?

The University of Adelaide combines top researchers in History with a large cohort of postgraduate students, creating a lively environment in which to conduct research and explore new ideas.

We have regular seminars, workshops, and similar events throughout the year. Students have the opportunity to hone their skills not just through research, but also public speaking, writing for diverse audiences, and participating in career skills training.

All our staff are research-active, and bring cutting-edge ideas and knowledge to their engagement with students, ensuring a rigorous and innovative education.

Why research history at Adelaide?

Our Department of History provides a supportive environment, with concentrated expertise in gender, the history of emotions, memory studies, British history and many other areas. It's supported by a world-class library, with the largest collection for British Studies in Australia.

Students can explore questions about how emotions have changed over time and space; interrogate families' role in the production of the self and nation; or get involved in work on poverty and the implications for selfhood and wellbeing.

Projects students may be interested in

- The history of the 'quantified self'
- History of poverty and 'precarious' work
- Family, identity and memory
- Loneliness in historical perspective
- Law and emotion

Recent publications

Barclay, K 2019, 'Love, care and the illegitimate child in eighteenth-century Scotland', Transactions of the Royal Historical Society, vol. 29, pp. 105–25.

Barclay, K 2018, Men on Trial: Performing Emotion, Embodiment and Identity in Ireland, 1800-1845. Manchester: Manchester University Press.

Barclay, K 2018, 'Falling in love with the dead', Rethinking History, vol. 22(4), pp. 459–73.

Barclay, K & Carr, R 2018, 'Women, Love and Power in Enlightenment Scotland', Women's History Review, vol. 27(2), pp. 176–98.

Barclay, K 2017, 'New Materialism and The New History of the Emotions', Emotions: History, Culture, Society, vol. 1(1), pp. 161–83.

Humanities continued

English

- Australian Literature; Drama, Theatre and Performance
- Australian Cultural History and Contemporary Culture
- Humour Studies
- Early Modern English Tragedy
- The Critical History of Catharsis
- Early Modern Uses of Virgil's Aeneid
- The Bildungsroman
- Postcolonial Fiction, especially Australasian and Pacific
- Contemporary Popular Culture including sport
- Contemporary women's writing and feminist theory
- Nineteenth and twentieth century British fiction
- Psychiatry and 'anti-psychiatry' in fiction
- Animals in literature
- Dance in literature
- Anthropocene studies and the environmental humanities
- Coastal and maritime literary and cultural studies
- Critical theory
- Literary debates and the state of the humanities
- Global south, southern hemisphere and world literatures
- Women's writing and theories of gender
- Modernism
- Film Theory
- American Literature and Film
- Gothic and related speculative genres

Creative writing

- Novel, short story and creative nonfiction
- Inclusivity and diversity in creative writing pedagogy
- Creative-critical theory intersections
- Dystopian fiction and the representation of the writer
- Young Adult fiction
- Contemporary Poetry and Poetics
- Ecopoetics
- Visual and Sound Arts in Writing Practice
- Publishing
- Digital Writing
- Fictocriticism
- Life Writing
- Experimental writing

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French Studies

The Department of French Studies welcomes applications for higher degrees by research, and encourages interdisciplinary explorations that cut across multiple languages. The department's postgraduate students frequently collaborate with others across Australia, and are active in attending and presenting at major conferences. Research areas include:

- French and Francophone literature and history from the 18th to the 21st centuries
- French and Francophone cinema
- women's writing
- autobiography
- crime fiction
- exploration in the Pacific
- literary theory
- translation studies.

Joint supervision may be provided.

T: +61 8 8313 4249
E: humanitiesoffice@adelaide.edu.au
W: www.arts.adelaide.edu.au/french

German Studies

Staff in the Department of German Studies conduct and supervise research in a number of different periods and areas of German language and culture. These include:

- literary and aesthetic theory and history
- intercultural literary studies
- 18th-21st-century German literature, including Goethe, Tieck, Fontane, Musil, Benn and Frisch
- cultural constructions of German identity
- German and continental philosophy
- theatre studies
- emotions and moods in literature, and the history of science
- space and time configurations in literature
- 20th century Austrian and German culture and literature , including Thomas Bernhard, Elfriede Jelinek and Gert Jonke
- musical discourses in 19th and 20th century Austria and Germany
- Austrian studies
- German film
- 'Vergangenheitsbewältigung' (coming to terms with the past) in contemporary Austria and Germany
- holistic discourses (including Gestalt theory) in 20th century German thought.

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W: www.arts.adelaide.edu.au/german

History

Staff in the Department of History supervise research across a wide range of periods, regions and themes, such as:

- the history of emotions
- European history—medieval and early modern religion, politics and society, social and cultural history of the 16th to 20th centuries, French history, and Russian and Eastern European history
- British history—legal history, politics and society, gender, and medieval Britain
- Australian history, especially the history of migration, Australian Indigenous history, and comparative Indigenous history
- American history, and the history of capitalism
- the history of science, technology and medicine, and health/science policy
- 20th century history—international terrorism, nationalism, genocide, and World War I and II
- the history of family and gender.

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W: www.arts.adelaide.edu.au/history

Linguistics

Research in the Department of Linguistics covers descriptive and analytic approaches and methodologies. Areas of focus include:

- Aboriginal linguistics, including Kaurna language and West Coast South Australian languages
- Hebrew, Jewish, Semitic and Afro-Asiatic linguistics
- Pacific linguistics, including Norfolk Island language
- revival linguistics—reclamation, revitalisation, re-introduction
- language planning
- language preservation and language change

- language contact—pidgin and creole linguistics
- mission linguistics.

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E: humanitiesoffice@adelaide.edu.au
W: www.arts.adelaide.edu.au/linguistics

Media

Staff in the Department of Media actively research, publish and supervise across a broad range of scholarly and creative areas. Among them are:

- digital media and innovation
- media industries
- food and media
- comics and graphic narratives
- journalism practice
- multimodal design and theory
- mobile technologies and practices
- design and innovation management
- 'extreme' media and cultures
- film theory and practice
- online games and social media practices
- transnational media and diaspora
- community news media
- journalism and trauma
- media and social and political theory
- user-experience design
- mediatisation of risk, security and othering
- journalistic practices, censorship and emerging media
- media and politics
- journalism theory
- media and race
- typography, augmented texts and dyslexia
- human-centred design
- immersive technology design/development
- biometrics, analytics and human computer interaction in VR, MR and AR
- networked ubiquitous technologies
- multi-material 3D scanning for optimised pipeline implementation
- persona studies
- online identity
- social media platforms
- streaming television
- celebrity studies
- animation
- digital 2D and 3D representation.

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W: www.arts.adelaide.edu.au/media

Philosophy

Postgraduate research students in the Department of Philosophy have an opportunity to develop original philosophical ideas, working alongside world-leading scholars with extensive professional experience. The department's researchers contribute to many areas of philosophy, with particular strengths in:

- aesthetics and philosophy of art
- cognitive science, philosophy of mind, and philosophy of psychiatry
- epistemology
- philosophy of logic and language
- philosophy of science, biology, and physics
- metaphysics
- moral and political philosophy.

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E: humanitiesoffice@adelaide.edu.au
W: www.arts.adelaide.edu.au/philosophy

Spanish Studies

Staff in the Department of Spanish Studies can supervise in a variety of areas. These include:

- contemporary Latin American literature and culture
- ecocriticism in the Spanish world
- Latin American poetry
- poetry and popular music/culture in Latin America
- politics in Latin American literature
- Latin American film
- decolonial processes and interculturalism in Latin America
- indigenous cultures of Latin America
- literary theory
- the Spanish civil war
- Spanish literature of the 19th and 20th centuries.

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E: humanitiesoffice@adelaide.edu.au
W: www.arts.adelaide.edu.au/spanish

To find a supervisor, submit a research proposal or learn more about these areas of research, visit: **www.arts.adelaide.edu.au/our-research**

ALEX ANTONIOU

Master of Philosophy (Research) 2018 in the Department of Classics, Archaeology and Ancient History

"Undertaking my Master of Philosophy in Ancient History at the University of Adelaide has given me a fantastic grounding for the rest of my academic career.

It offered exemplary supervisory support, a warm and supportive environment geared towards student excellence, and the opportunity for me to interact with knowledgeable and passionate colleagues from across Australia and the globe.

I have had countless opportunities to broaden my horizons and develop my research skills, such as by presenting at local and international conferences, undertaking my research internationally, and teaching undergraduate students."

MUSIC

TOP 3 REASONS TO RESEARCH MUSIC AT THE UNIVERSITY OF ADELAIDE

1

Elder Conservatorium of Music recognised internationally as a specialist music institution, with the longest history of any music school in Australia

2

Offers PhD and master degrees in all specialisations, including Composition, Musicology, Ethnomusicology, Performance, Sonic Arts and Music Education

3

Research quality rated above world standard

As one of Australia's oldest and most distinguished tertiary music schools, the Elder Conservatorium of Music plays a leading role in Australia's musical landscape. Through its research programs, it encourages the development of new parameters of artistic and scholarly endeavour that contribute to the advancement of knowledge and practice in the art of music.

The Conservatorium offers international postgraduate students access to outstanding resources, including one of the largest music libraries in the Southern Hemisphere.

It maintains a wide range of professional links with music schools, conservatories and music organisations within South Australia and across the nation; and it sustains strong connections with important institutions in the UK, USA, Canada, Asia and Europe.

Research centres and Institutes

- **The J.M. Coetzee Centre for Creative Practice (jointly with the School of Humanities)**
  www.adelaide.edu.au/jmcoetzeecentre
- **Sia Furler Institute for Contemporary Music and Media**
  www.arts.adelaide.edu.au/music/sia-furler-institute
- **National Centre for Aboriginal Language and Music Studies**
  www.arts.adelaide.edu.au/ncalms/

Research areas

Staff at the Elder Conservatorium are active researchers and supervisors in a variety of areas, including:

- Australian Indigenous music
- contemporary Polish music
- music and society
- music analysis
- music and health
- music composition (including concert music, music for film and television, electro acoustic music, and jazz composition)
- music performance (classical, pop and jazz)
- traditional and contemporary music in Asia
- Chinese traditional music
- digital technologies and sound design.

To find a supervisor, submit a research proposal or learn more about research at the Elder Conservatorium of Music, visit: **www.music.adelaide.edu.au/research**

Further information or advice

T: +61 8 8313 5995
E: music@adelaide.edu.au
W: www.music.adelaide.edu.au

IRAN SANADEZAH

PhD in Musicology/Sonic Arts

"I've been able to learn from some of the best mentors in my field. The university has given me support to grow and expand my skills in a new area and engage with other fields, and I have developed new interests since coming to this university that have changed my perspective on research.

I have had the opportunity to work closely with my supervisor, and tackle interdisciplinary research in music."

SUPERVISOR SPOTLIGHT

AARON CORN

Professor, Director of Centre for Aboriginal Studies in Music, Director of National Centre for Aboriginal Language and Music Studies

Fields of research

- Aboriginal and Torres Strait Islander information and knowledge systems
- Aboriginal and Torres Strait Islander education
- Aboriginal and Torres Strait Islander performing arts
- Musicology and ethnomusicology
- Archival, repository and related studies

Awards

- Australian Research Council Linkage Projects grant, with the Mulka Project and the South Australian Museum, '3D Printing of Custom Musical Instruments for Heritage and Industry Needs', 2020–2021
- Australian Research Council Discovery Indigenous grant, with Dr Lyndon Ormond-Parker and Dr Dominique Sweeney, for 'Aboriginal Remote Narrowcast TV and the Audiovisual Archive, 2018–20
- Australian Research Council Discovery Projects grant, with Professor Howard Morphy and Professor Fred R Myers, for 'Mobilising the Global Legacy and Impact of the Aboriginal Artists Agency', 2015–17

Why should students study with the University of Adelaide?

Adelaide is a global leader in collaborative research into music and languages with Indigenous communities and maintains close partnerships with key stakeholders throughout Australia and internationally.

The University affords higher-degree students opportunities to acquire an exceptional standard of research training in both music research and linguistics, and also welcomes students seeking to undertake interdisciplinary research topics that intersect with these fields.

We provide our research higher degree students with a stimulating and supportive environment that encourages them to build valuable professional networks and realise their full potential.

Why research Indigenous music or languages at Adelaide?

With a reputation spanning four decades' standing, the Centre for Aboriginal Studies in Music at the University of Adelaide is globally renowned as a leader in Indigenous music and related research.

We work closely with Indigenous communities through various research projects aimed at maintaining their music, dance and language traditions. And we nurture new strategies for strengthening Indigenous societies and cultures through creative and innovative applications of their music, dance and languages.

We are also committed to finding new solutions to ensure Indigenous communities can readily access collections of their cultural heritage into the future.

Projects students may be interested in

- Research into specific Indigenous music, dance and language traditions
- Research into creativity and innovation within Indigenous music, dance and language cultures
- Research into specialised uses of language within Indigenous forms of music and dance
- Research aimed at archival solutions for improving Indigenous community access to their cultural heritage collections
- The contextualisation of music, dance and languages within Indigenous knowledge systems
- Improved approaches to teaching Indigenous histories and cultures through Indigenous music, dance and languages

Recent publications

Corn, A. (2019) 'Before the First Wave: Understanding the Intersection of Yolnu Expressions of Makassan Contact Histories and Independence from Foreign Influences in Northeast Arnhem Land' in Gillian Dooley & Danielle Clode (eds), The First Wave: Exploring Early Coastal Contact History in Australia (Adelaide: Wakefield), pp. 106–34.

Corn, A. (2019) 'The Semantic Web: An Exploration of Its Functionality for Describing and Discovering Indigenous Australian Knowledge and Heritage Resources', Archives & Manuscripts vol. 46(3), 131–52.

Recent news articles

'Together we rise: East Arnhem Land artists respond to COVID-19 with the gift of music' https://theconversation.com/together-we-rise-east-arnhem-land-artists-respond-to-covid-19-with-the-gift-of-music-137247

'Friday essay: How Indigenous songs recount deep histories of trade between Australia and Southeast Asia' https://theconversation.com/friday-essay-how-indigenous-songs-recount-deep-histories-of-trade-between-australia-and-southeast-asia-123867

'What writers and publishers must learn from the Deadly Woman Blues fiasco', with Professor Marcia Langton https://theconversation.com/what-writers-and-publishers-must-learn-from-the-deadly-woman-blues-fiasco-92512

SOCIAL SCIENCES

TOP 3 REASONS TO RESEARCH SOCIAL SCIENCES AT THE UNIVERSITY OF ADELAIDE

1

In-depth engagement with industry, government and NGOs

2

Leadership in research mentoring in a supportive research environment

3

Access to many high-achieving research centres

The School of Social Sciences is a world leader in applied social research, with a focus on: migration; coastal management; cities; housing; sociology; youth; health; and international development.

The school houses a Nobel Laureate in coastal studies, and leading world scholars in:

- housing markets
- public policy
- foreign policy
- political theory
- environment
- anthropology and development studies
- gender
- health
- Indo-Pacific politics and governance
- deviance and social control.

The school offers diversity and depth in the disciplines of: anthropology and development studies; sociology, criminology and gender studies; geography, environment and population; and politics and international relations. Its world-class scholars provide hands-on supervisory support and mentorship to the school's high-achieving postgraduate students, many of whom go on to obtain academic posts and become leaders in industry and government.

School staff frequently collaborate with industry and government bodies. This includes the United Nations, UNICEF, Australian Red Cross, National Roads and Motorists' Association, numerous local governments, and the Australian Government departments of:

- Foreign Affairs and Trade
- Health (incorporating ageing services)
- Environment and Energy
- Social Services (incorporating housing and community services)
- Home Affairs (incorporating immigration)
- Attorney-General's Department (incorporating native title).

Research centres

- **Hugo Centre for Population and Housing**
  www.adelaide.edu.au/hugo-centre/
- **The Fay Gale Centre for Research on Gender**
  www.adelaide.edu.au/gender

SUPERVISOR SPOTLIGHT

MELISSA NURSEY-BRAY

Associate Professor, Geography, Environment and Population

Head of the Adaptation, Community, Environment (ACE) Research Group

Fields of research

- Climate adaptation
- Social context of fisheries, including co-management
- Indigenous resource management
- Urban ecologies in smart cities
- Participatory environmental governance

Awards

- University Beacon Award for Excellence in HDR Supervision, 2017

Why should students study with the University of Adelaide?

The University of Adelaide is ranked among the top 100 universities in the world, and located in one of the world's top ten most liveable cities.

The main campus is located in the city centre, and provides excellent research support, residential accommodation and social opportunities.

Staff are world-class teachers and researchers, and give students very broad scope to pursue their own interests and career opportunities.

Why research human geography at Adelaide?

The Department of Geography is an active, world-class human geography unit. Staff are internationally recognised, highly research-active, well-published, and excellent teachers. In particular, we offer expertise in climate adaptation, urban planning and migration research.

Projects students may be interested in

- Scale and community-based adaptation
- Role of traditional knowledge in informing climate change adaptation
- Urban ecology and adaptation – towards smart green cities
- Co-management of fisheries

Recent publications

Nursey-Bray, M, Palmer, R, Smith, T, & Rist, P 2019, 'Old ways for new days: Australian Indigenous peoples and climate change', Local Environment, vol. 24(5), 473–86.

Nursey-Bray, M & Palmer, R 2018, 'Country, climate change adaptation and colonisation: insights from an Indigenous adaptation planning process, Australia', Heliyon, vol. 4(3).

Hasan, Z & Nursey-Bray, M 2018, 'Artisan fishers' perception of climate change and disasters in coastal Bangladesh', Journal of Environmental Planning and Management, vol. 61(7), 1204–23.

Fidelman, P, Van Tuyen, T, Kim, N & Nursey-Bray, M 2017, 'The Institutions-Adaptive Capacity Nexus: Insights from Coastal Resources Co-Management in Cambodia and Vietnam', Environmental Science & Policy, vol. 76, pp. 103–12.

Nursey-Bray, M 2017, 'Towards socially just adaptive climate governance: the transformative potential of conflict', Local Environment, vol. 22(2), pp. 156–71.

Research areas

Anthropology and Development Studies

- Anthropological perspectives on various locales: Aboriginal Australia, Australia, Europe, Melanesia and Oceania, South Asia (Nepal, India, Sri Lanka, Pakistan), Southeast Asia (Thailand, Laos, Indonesia, Timor-Leste), and East Asia (China)
- Ethnography in anthropology: theory and methods of anthropology; feminist perspectives of ethnography; postmodern ethnography; and material culture
- Art and aesthetics in cultural processes: belief systems and ritual symbolism; cosmology and myth; cultural constitution of identity ethnicity; multiculturalism, nationalism and regionalism; and domestic organisation
- Applied anthropology
- Environmental anthropology
- Colonialism, the state, and Third and Fourth World peoples
- Critical studies in social development, especially in the Asia-Pacific region: peasant society; rural society and the contemporary state; small communities in contemporary complex society; social and political organisation; social mobility; systems of hierarchy and inequality; and systems of land tenure
- Gender relations; mass/popular consumption; media; medical anthropology; and visual anthropology

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W: www.arts.adelaide.edu.au/anthropology

Asian Studies

- Chinese linguistics: dialectology; L2 acquisition of Chinese and Japanese; and translation studies
- Asia: social change, politics and history; regional development; social and political reform; work and leisure; cultural influences; soft power; spirituality; Asian world influence; Australia-Asia relations in the context of regional institutions, energy policy and power transition; and research into higher education
- China: governance; rural studies; contemporary politics; education; intellectual and cultural change; language education; language acquisition; translation/interpreting studies; Chinese linguistics; dialectology; critical thinking on contemporary China; Chinese migration to Australia; western media reportage of China; western academic and media construction of China; and discourse analysis of China
- Japan: contemporary political issues; environmental issues; foreign policy; defence and security; education, youth and culture; issues of governance; intercultural language teaching and learning; language education; spirituality; and social theory

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W: www.arts.adelaide.edu.au/asian

Geography, Environment and Population

- Australian demography
- Climate change
- Coastal management
- Environmental change: Australia, Southeast Asia and the Pacific
- Environmental planning and governance
- Biodiversity conservation and food security
- Human impact on lakes and wetlands
- Indigenous peoples and the environment
- Migration and development

YUN SEH LEE

Asian Studies

“Never would have I imagined to start a Sino-related research project in a Western country and much to my surprise, Australia has quite an extensive collections about my research topic. Whilst being an Arts research student could be ‘lonely’ at times, the University of Adelaide provides a studying vibe and favourable environment to kickstart a writing initiative like the Writing Monday for HDRs I have started since January 2020.”

- Migration policy
- Non-market valuation
- Permaculture
- International global migration
- Housing and urban planning
- Regional development
- Small-scale forestry
- Transport and mobilities
- Urban futures
- Urban management
- Water security

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W: www.arts.adelaide.edu.au/ges

Politics and International Relations

- Australian politics and public policy: political institutions, parties and voting rights; Australian political history; and key social, technological and economic issues
- International relations
- Human rights and justice: political rights; economic inequality; migration; ethnicity; gender; and sexuality
- The history of political thought
- International comparative politics: Northeast and Southeast Asia; the Middle East; Eastern and Western Europe; Britain; the South Pacific; and Latin America
- Foreign policy: Australia, China, India and Russia
- Changing geopolitics and international political economy
- Security studies
- Citizenship studies
- Environmental politics

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E: socialsciences@adelaide.edu.au
W: www.arts.adelaide.edu.au/polis

Sociology, Criminology and Gender Studies

- Sociology
- Criminology and criminal justice processes
- Risk and surveillance
- Australia: cultural studies; gender and cultural difference; popular culture and media representations; and race relations
- Gender bodies and health
- Obesity
- Health policy
- Human rights
- Medical anthropology
- Post-colonial histories; research methodology; theory
- Sexuality
- Social policy and citizenship
- Families
- Youth
- Urban living

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Further information or advice

School of Social Sciences, Napier building, Ground Floor, North Terrace campus, University of Adelaide, SA 5005 Australia

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W: www.arts.adelaide.edu.au/research

To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.arts.adelaide.edu.au/our-research**

JOHNNY KARANICOLAS

Anthropology

"Completing my PhD in anthropology at the University of Adelaide was a unique experience that allowed me to refine my skills as an academic and researcher. It also provided me the opportunity to forge enduring national and international relationships with others in my field.

As part of my PhD, I spent over a year in Athens, Greece conducting ethnographic research within the city's burgeoning alternative art scene. Under the professional guidance of my supervisors, this data formed the basis of my dissertation 'Art and Crisis on the Streets of Athens'. The entire experience was absolutely life changing."

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

The Faculty of Engineering, Computer and Mathematical Sciences has an outstanding reputation for innovative, high-impact research across all our disciplines.

From the application of AI, machine learning and image analysis tools to help specialists diagnose and monitor diseases to the development of sustainable energy solutions, our world-leading researchers are applying their expertise to solve some of our world's most complex challenges.

Through fundamental, advanced and applied research, the faculty is addressing challenges and solving real-world problems in collaboration with industry, government and the broader community.

Our research is consistently ranked at, or well above, world standard and our expertise spans the following areas:

- Advanced Materials and Manufacturing
- Energy, Resources and Environment
- Food, Water and Agriculture
- Medical, Health and Bioprocessing Technologies
- Space and Defence
- Smart Technologies and Mathematics

Located right in the heart of Adelaide's innovation and technology precinct, our students deliver real commercial outcomes through their collaborations and connection with a vast network of talented researchers and peers. This includes access to co-located industry partners, high-quality research facilities and specialist laboratories and expertise.

Our research centres and institutes

Australian Institute for Machine Learning

The Australian Institute for Machine Learning (AIML) is a world-leader in the application of machine learning methodologies and the largest University-based research group in machine learning in Australia. Machine learning underpins the business models of the largest corporations and has the potential to deliver massive, social, economic and environmental benefits. AIML's research strengths lie in machine learning and the methods that support this: artificial intelligence, computer vision and deep learning. Their research has helped create AI that helps cure disease, grow drought-resistant crops, and that can help count carbon in some of the world's most important landscapes.

We also participate in several Australian Government-funded Cooperative Research Centres, including a leading role in the Cyber Security CRC, and lead the ARC Research Hub for Graphene Enabled Industry Transformation and the ARC Training Centre for Integrated Operations for Complex Resources.

* *Australian Research Council, Excellence in Research Australia Report 2018-19.*

ARCHITECTURE AND BUILT ENVIRONMENT

TOP 3 REASONS TO RESEARCH ARCHITECTURE AND BUILT ENVIRONMENT AT THE UNIVERSITY OF ADELAIDE

1

Highly qualified, nationally and internationally recognised staff

2

Unique expertise in culture-focused design and sustainable built environment research

3

Multidisciplinary school with research strengths in architecture, landscape architecture, urban design, and sustainable construction

The School of Architecture and Built Environment has two major research streams: humanism and sustainability. It has a strong team of world-class researchers and specialises in delivering internationally recognised postgraduate study programs in architecture, landscape architecture, construction management, urban design and property.

We are recognised for training graduates to the highest professional standards in an educational culture that also values and encourages a theoretical and reflective approach.

Our programs are professionally accredited by the Australian Institute of Architects, the Australian Institute of Landscape Architects, the Planning Institute of Australia, the Royal Institution of Chartered Surveyors and the Architectural Practice Board of South Australia.

Industry and research partnerships

The School of Architecture and Built Environment has strong connections with the architecture, landscape architecture, and urban design professions. These links come through their representative institutes and industry professors, as well as the Art Gallery of South Australia, and the South Australian Museum.

Research centres and units

- Centre for Asian and Middle Eastern Architecture
- Design Research Collective
- China-Australia Sustainable Research Unit

Research areas

There are two main research streams in the School of Architecture and Built Environment, humanism and sustainability, within which active researchers and supervisors offer a range of established and emerging topics of research covering six key areas.

Culture, history and theory

In this key area, researchers employ a distinctive, critical and cross-cultural approach in their study of a range of social, intellectual, environmental, and economic issues across the fields of architecture, landscape architecture, and urban design. Examples of broad research topics include:

- early modernity and urbanism in the Arab world
- a cross-cultural perspective on early modern material culture
- art, religion, and the environment.

HAMED TAVAKOLI

PhD in Architecture

"Today the provision of environmental sustainability in our cities has gained substantial momentum through academic and professional discourses, while several aspects of social sustainability have been largely overlooked.

Therefore, my PhD implements an interdisciplinary approach between architecture and anthropology, to recognise features of spatial liminality in the daily lives of citizens, for revitalising historic cities."

SUPERVISOR SPOTLIGHT

KATHARINE BARTSCH

Associate Head, School of Architecture and Built Environment

Fields of research

My research interests stem from professional practice. Early in my career at a prominent architectural firm the team was commissioned to design a mosque in Dubai, UAE. The design sparked a lively debate about the capacity of architecture to materialise identity in the context of global mobility and intense cultural encounters. This prompted my PhD dissertation on contemporary architecture and Islam at the Centre for Asian and Middle Eastern Architecture (CAMEA). This dissertation specifically examined contemporary projects informed by the history of the built environment in the Islamic world; and, humanitarian projects focusing on underprivileged communities. These two themes continue to influence my fields of research:

- Human mobility (migration, displacement, diaspora) and the ways that this shapes architecture, landscapes and settlements, historically and today
- A humanitarian focus on migration (rural>urban, displacement, resettlement [forced and voluntary]) and settlement in the context of large scale infrastructure projects or urbanisation.

Why research architecture and built environment at the University of Adelaide?

Our dedicated supervisors are recognised nationally and internationally for their expertise in two key areas of Humanism and Sustainability. As a result, our School can offer supervision for a wide range of topics. This breadth is enhanced by our nimble collaboration with supervisors from other disciplines to form the best supervision panel for each student.

This guidance is complemented by our supportive, collegial research community.

My favourite part of being a supervisor

I am honoured to work with passionate, intelligent students from around the world. It is rewarding to see how our students' original research can improve people's quality of life through new knowledge, sustainable initiatives, innovative policy or professional practice.

What makes a successful supervisor and student partnership?

We are fortunate to attract excellent research students to the School of Architecture and Built Environment. However, every student arrives with different strengths, abilities and expectations. It is important to establish what these are early on and to set clear milestones to ensure a transparent partnership where intellectual rigour, communication and mutual respect can thrive.

Recent awards

- Faculty of Professions Curriculum Renewal Grant, 2017
- Best Paper, PLEA (Passive Low Energy Architecture: Design to Thrive Conference), 2017
- ARC Linkage Grant, The Architecture of Australia's Muslim Pioneers, 2013-2016 (co-CI with Peter Scriver, University of Adelaide, & Partner Institutions SA Museum and International Islamic University, Malaysia, IIUM

Where my students have gone on to

I welcome students who aim to bridge the gap between research and practice. I am thrilled that my students are now making positive contributions in academia, architectural practice and local government. For a list of current higher degree research students and recent completions visit: **www.researchers.adelaide.edu.au/profile/katharine.bartsch**

Current and recent projects you may be interested in

- Infrastructure, migration and settlement and in South Asia / Australasia
- Water infrastructure and settlement (including green infrastructure)
- Dam-induced displacement and resettlement
- Human mobility and hybrid architecture in South Asia / Australasia
- Diasporic communities and architecture in Australia
- Islamic Architecture & Gardens

Recent selected publications

Li, H, Lv, L, Zuo, J, Bartsch, K, Wang, L, & Xia, Q, 2020, 'Determinants of public satisfaction with an urban water environment treatment PPP project in Xuchang, China', Sustainable Cities and Society, https://doi.org/10.1016/j.scs.2020.102244.

Ibrahim, A, Bartsch, K, & Sharifi, E, 2020, 'Green infrastructure needs green governance: Lessons from Australia's largest integrated stormwater management project, the River Torrens Linear Park', Journal of Cleaner Production, vol. 261, https://doi.org/10.1016/j.jclepro.2020.121202.

Wang, Y, Gao, M, Zuo, J & Bartsch, K, 2020, 'Social capital and social integration after project-induced displacement and resettlement: Exploring the impact of three life stages in the Three Gorges Project', The Social Science Journal, https://doi.org/10.1080/03623319.2020.1728503.

Bartsch, K, & Scriver, P, 2019, 'The House of Stars: Astronomy and the architecture of new science in early modern Lucknow (1831-49)', in Akkach, S (ed), 'Ilm: Science, Religion and Art in Islam, University of Adelaide Press, Adelaide, pp. 59-77.

Malaque, I, Bartsch, K, & Scriver, P, 2017, 'Thriving in the slums: Progressive development and empowerment of the urban poor to achieve secure tenure in the Philippines', in Brotas, L, Roaf, S, & Nicol, F, (eds), PLEA (Passive Low Energy Architecture) 2017 Edinburgh. Design to Thrive, PLEA, Edinburgh, pp. 4819-4826. Best Paper.

Architecture and Built Environment continued

Design research

Within this key area, researchers will focus on the methods and outputs of investigations that contribute to new knowledge through the creation of design projects in architecture, landscape architecture and urban design.

Examples of broad research topics include:

- the epistemological processes of spatial thinking in practice
- design research pedagogy and methods
- designing for adaptive reuse.

Asia and the Middle East

In this key area researchers will advance new knowledge of the architectures, landscapes, and urbanity of Asia and the Middle East; and promote cross-cultural understanding of the intertwined histories of Western and non-Western peoples.

Examples of broad research topics include:

- transitions to modernity in Asia and the Middle East
- Australian-Asian/Middle Eastern exchanges in art, architecture, and urbanism
- the intellectual and socio-urban history of Asian and Middle Eastern societies.

Environment and building

In this key area researchers apply architectural science and interdisciplinary research to focus on advancing knowledge to plan, design, operate, and manage our built environment.

Examples of broad research topics include:

- mitigation and adaptation to extreme weather conditions in the building and urban scale and the city
- low to zero energy and carbon building design
- all-age friendly urban and building design.

Housing and healthy cities

Researchers in this key area will bring the methods and approaches of architecture, building science, social epidemiology, planning, econometrics, geography and spatial science to address urban housing and health problems.

Examples of broad research topics include:

- planning and urban change
- housing affordability
- the impact of policy on housing, health, transport and other sectors.

Sustainable construction

Researchers in this key area will work on gaining a better understanding of the drivers and mechanisms for achieving sustainable construction in Australia and overseas.

Examples of broad research topics include:

- resource efficiency and construction-and-demolition waste management
- 'green' building rating tools and developments.
- the dynamic interaction between sustainability and other factors (e.g. health and safety) in building and infrastructure projects.

Postgraduate coordinator

Professor Jian Zuo
Email: jian.zuo@adelaide.edu.au

Further information or advice

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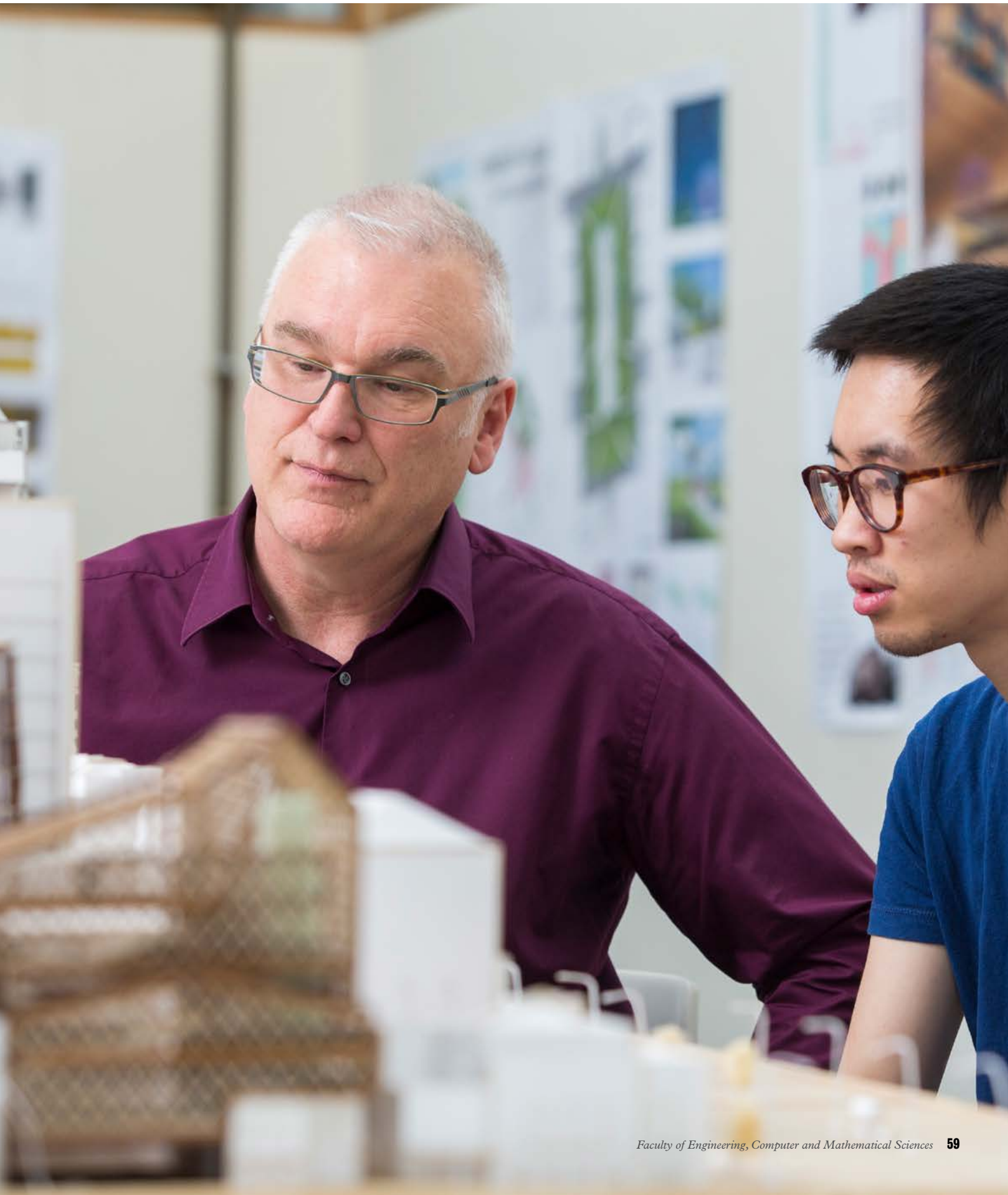

AUSTRALIAN SCHOOL OF PETROLEUM AND ENERGY

TOP 3 REASONS TO RESEARCH PETROLEUM ENGINEERING AND GEOSCIENCE AT THE UNIVERSITY OF ADELAIDE

1

Excellent industry connections, funding and support

2

The only integrated petroleum engineering, geoscience and management school in the world

3

World-class research staff and facilities with access to leading industry data and software

The Australian School of Petroleum and Energy Resources is one of the largest petroleum-focused university schools in the Southern Hemisphere, and the only institution worldwide offering fully integrated research and teaching programs in petroleum geoscience, engineering and management.

The school is ranked 7th in the world and 1st in Australia* for petroleum engineering, and the majority of our research leaders have strong, international industry links or backgrounds, ensuring our research is up-to-date and relevant.

Industry and research partnerships

The Australian School of Petroleum and Energy Resources maintains active relationships with business and industry partners at state, national and international levels. This is reflected in numerous collaborative research programs, training and development, student project sponsorships and sponsored staff positions.

Research centres and institutes

- **Institute for Mineral and Energy Resources**
  www.adelaide.edu.au/imer
- **Mawson Geo Centre**
  www.adelaide.edu.au/mawson-geo

Research areas

Staff in the Australian School of Petroleum and Energy Resources are active researchers and supervisors in a variety of areas, including:

- stress, structure and seismic
- reservoir analogues
- decision-making, risk analysis, economic evaluation
- unconventional resources and recovery
- water flooding and formation damage
- enhanced oil and gas recovery
- geological aspects of carbon capture and storage.

To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.ecms.adelaide.edu.au/petroleum-and-energy-resources**

Postgraduate coordinator

Professor Peter McCabe
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Further information or advice

Australian School of Petroleum and Energy Resources

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** QS World University Rankings by Subject, 2020*

NATALIE DEBENHAM

PhD (Australian School of Petroleum and Energy Resources)

"The University of Adelaide provides a very supportive and resourceful learning environment for undertaking high quality higher-degree-by-research studies.

Studying at the Australian School of Petroleum has provided me with access to world-class research facilities and resources, and multiple opportunities to travel and collaborate internationally."

SUPERVISOR SPOTLIGHT

DR ABBAS ZEINIJAHROMI

Senior Lecturer

Fields of research

- Petroleum Engineering
- Enhanced Oil Recovery (EOR)
- Formation Damage
- Data Analytics and Machine Learning (ML) applications to extraction of oil and gas

Awards

- Society of Petroleum Engineers (SPE) Young Professional award, The European Formation Damage Conference, 2015
- Selected SPE Outstanding Young Professional at the 'Emerging Leaders Alliance' conference, 2016 and 2017

Why should students study with the University of Adelaide?

Students study in the Australian School of Petroleum and Energy Resources because we are very connected with industry. Our teaching programs are designed in conjunction with industry partners, as are many of our postgraduate research projects. Projects are designed to address industry challenges, and give students the attributes needed to embark on a successful career.

Why research petroleum engineering at the University of Adelaide?

The University of Adelaide hosts the Formation Damage and Enhanced Oil Recovery Research Group at the Australian School of Petroleum and Energy Resources (ASPER). This is a leading research group for flow in porous media in improved recovery in the Asia-Pacific. Research students have access to our world class laboratory, equipped with high-tech equipment for fluid flow and EOR studies. They will work as part of a multi-disciplinary team of researchers on industry-sponsored projects.

Our close collaborations with international partners in both universities and industry provide the opportunity for our research students to work on exciting real-world projects with world-leading scientists and engineers.

Projects students may be interested in

- Mechanisms of Extra Oil Recovery by Low Salinity Water Injection (Modelling and Laboratory Study)
- Effects of Fines Migration on Sweep Efficiency Enhancement (Modelling and Laboratory Study)
- Quaternary EOR Process during CO2 Geosequestration
- Machine Learning Approaches for Optimised CBM Reservoir Management and Development

Recent publications

Russell, T., Chequer, L., Borazjani, S., You, Z., Zeinijahromi, A., Bedrikovetsky, P. 2018. Formation Damage by Fines Migration: Mathematical and Laboratory Modelling, Field Cases. In: Formation Damage during Improved Oil Recovery: Fundamentals and Applications, Chapter 3, Elsevier

Yu, M., Zeinijahromi, A., Bedrikovetsky, P., Genolet, L., Behr, A., Kowollik, F., and Hussain, F., 2018. Effects of Fines Migration on Oil Displacement by Low-Salinity Water. Journal of Petroleum Science and Engineering

Bazyari, A., Soulgani, B., Jamialahmadi, M., Dehghan Monfared, A., and Zeinijahromi, A., 2018. Performance of Smart Water in the Clay-Rich Sandstones; Experimental and Theoretical Analysis. Energy & Fuels

Al-Sarihi, A., Zeinijahromi, A., Genolet, L., Behr, A., , Kowollik, P., and Bedrikovetsky, P, 2018. Effects of Fines Migration on Residual Oil during Low-Salinity Waterflooding. Energy & Fuels.

Zeinijahromi, A., Farajzadeh, R., Bruining, H., and Bedrikovetsky, P, 2016. Effect of Fines Migration on Oil-Water Relative Permeability during Two-Phase Flow in Porous Media. Fuel 176 (1)

CHEMICAL ENGINEERING AND ADVANCED MATERIALS

TOP 3 REASONS TO RESEARCH CHEMICAL ENGINEERING AND ADVANCED MATERIALS AT THE UNIVERSITY OF ADELAIDE

1

Conduct cutting-edge research into some of the most significant challenges facing humanity

2

Produce real commercial outcomes through industry collaboration

3

Work with leading researchers nationally and internationally

The School of Chemical Engineering and Advanced Materials boasts a vibrant and dynamic research team that undertakes cutting-edge research on challenging global issues, including clean energy and resources, pharmaceuticals, water, food and sustainability.

The school currently hosts more than 80 higher-degree researchers in the main areas of: chemical engineering, advanced materials, and biopharmaceutical processing. The school's research is supported by state-of-the-art laboratories and analytical equipment—including non-intrusive laser technologies, an ultra-high-resolution Transmission Electron Microscope and high-performance computing facilities.

Industry and research partnerships

The school has established strong links with key industries through a range of research funds and research projects.

These include: the Silanna Group; BHP Billiton; SA Water; Southern Oil Refining; Tarac Technologies; Peats Soil and Garden Supplies; Spraygro Liquid Fertilizers; Treasury Wine Estates; Graphene Technology Solutions; and Melbourne Water.

Research institute

- **Institute for Mineral and Energy Resources**
  www.adelaide.edu.au/imer

Research centres

- **Centre for Materials in Energy and Catalysis**
  www.ecms.adelaide.edu.au/cmec
- **Graphene Enabled Industry Transformation Hub**
  www.arcgrapheneresearchhub.com.au
- **CRC Research Hub for Australian Copper-Uranium**
  www.adelaide.edu.au/copper-uranium-research
- **Centre for Energy Technology**
  www.adelaide.edu.au/cet

Research areas

The School of Chemical Engineering and Advanced Materials has developed strong industry-oriented research capabilities. It focuses on developing innovative chemical and biochemical engineering processes and novel technologies with applications in a range of key areas, including:

- nanotechnology and materials engineering
- pharmaceutical, bioprocessing and biomedical technologies
- energy storage and catalysis
- mineral characterisation and processing
- laser diagnostics and chemical sensing
- waste to value
- advanced water treatment technologies
- food and wine technologies.

Postgraduate coordinator

Professor Bo Jin
E: pgcchemeng@adelaide.edu.au

To find a supervisor, or learn more about our research, visit: **www.ecms.adelaide.edu.au/chemical-engineering-advanced-materials/our-research**

Further information or advice

School of Chemical Engineering and Advanced Materials

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SHAHEER MAKAR

PhD in Chemical Engineering

"The Faculty of Engineering, Computer and Mathematical Sciences provides me with the opportunity to use state-of the-art instruments and facilities. Many research projects in our group are already connected to industry. This has given me the opportunity to have direct contact with industry collaborators, learn from them, and assist with improving their processes."

SUPERVISOR SPOTLIGHT

SHIZHANG QIAO

Professor, Chair of Nanotechnology

Fields of research

Nanomaterials and nanotechnology for clean energy storage and conversion (electrocatalysis, photocatalysis, fuel cells, batteries).

Awards

- Clarivate Analytics Highly Cited Researcher (Materials Science and Chemistry)
- ARC Australian Laureate Fellowship
- Exxon Mobil Award, 2016
- Australian Research Council (ARC) Discovery Outstanding Researcher Award, 2013
- Emerging Researcher Award (Division of Energy and Fuels, the American Chemical Society, 2013

Why research clean energy (storage and conversion) and nanotechnology at the University of Adelaide?

Nanomaterial and nanotechnology for cleanenergy conversion and storage are important research directions that have developed rapidly in recent years. Our research in these fields is world-class and multidisciplinary, involving disciplines such as material science, chemistry, and molecular modelling.

Our current students thoroughly enjoy working in this research area because it offers versatile training and broad experience that can be employed across many industries and academia.

Students have the opportunity—in our new labs, with state-of-the-art equipment—to synthesise the most advanced nanomaterials and work on their real-world applications.

Projects students may be interested in

- Novel electrocatalysts for H2 production, oxygen reduction reaction, oxygen evolution reaction, and CO2 conversion to fuels
- Cost-effective nanomaterials for photocatalytic water splitting and CO2 conversion
- Nanostructured materials for new battery technologies, such as aqueous batteries
- Design of electrocatalyst for various clean energy conversions by quantum chemistry computations

Recent publications

Chao D.L., Qiao S.Z. et al., Roadmap for Advanced Aqueous Batteries: From Design of Materials to Applications, Science Advances, 2020, 6, eaba4098.

Tang C., Qiao S.Z. et al, Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-loading Molybdenum Single-Atom Catalysts, Angew. Chem. Int. Ed., 2020, 59, DOI: 10.1002/anie.202003842.

ZhangY.Z., Qiao S.Z. et al, Atomic-level Reactive Sites for Semiconductor-based Photocatalytic CO2 Reduction, Advanced Energy Materials, 2020, 10(9), 1903879.

Liu, X., Qiao, SZ et al. 2019, 'Building up a Picture of the Electrocatalytic Nitrogen Reduction Activities of Transition Metal Single Atom Catalysts', Journal of the American Chemical Society, vol. 141, 9664-9672.

Zheng,Y., Qiao, SZ et al. 2019, 'Understanding the Roadmap of Electrochemical Reduction of CO2 to MultiCarbon Oxygenates and Hydrocarbons', Journal of the American Chemical Society, vol. 141, 7646-7659.

CIVIL, ENVIRONMENTAL AND MINING ENGINEERING

TOP 3 REASONS TO RESEARCH CIVIL, ENVIRONMENTAL AND MINING ENGINEERING AT THE UNIVERSITY OF ADELAIDE

1

Internationally recognised as one of the top civil and mining engineering schools in the world—ranked 25 for civil engineering and 7 for mining engineering by the prestigious Academic Ranking of World Universities, 2020

2

Home to some of Australia's finest researchers, and considered 'well above world-class' by Excellence in Research Australia, 2018

3

State-of-the-art research facilities—including laboratories and supercomputers—capable of supporting cutting-edge fundamental and industrial research

Delivering award-winning and world-leading research, the School of Civil, Environmental and Mining Engineering offers postgraduate students exceptional opportunities to conduct fundamental and industry-relevant research. This includes in a wide range of areas surrounding the design, construction, maintenance and environmental sustainability of civil infrastructure, and the extraction of resources to build it.

Research areas

The school has three distinct areas of research strength. These are:

- structural mechanics and materials
- intelligent water decisions
- mining and geotechnical engineering.

A broad range of specialist research topics are available within each area. The Structural Mechanics and Materials Research Group develops new environmentally and economically sustainable construction materials. The Intelligent Water Decisions Research Group develops the tools, technology and insights to enable government and industry to make better decisions. The Mining and Geotechnical Engineering Research Group develops new technology to improve our practice in geotechnical and resource engineering.

To find a supervisor, submit a research proposal or learn more about these research areas, visit: **ecms.adelaide.edu.au/civeng**

Postgraduate coordinator

Associate Professor Chaoshui Xu
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Further information or advice

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W: www.ecms.adelaide.edu.au/civeng

JESSICA BOHORQUEZ

PhD in Civil Engineering

"I'm from Colombia and this is my first experience working in research overseas. By doing my PhD at the University of Adelaide, I'm getting experience in water management in the context of Australia. This exposure will strengthen my professional profile to deal with water-related problems back home or anywhere in the world."

SUPERVISOR SPOTLIGHT

MARTIN LAMBERT

Professor

Fields of research

- Smart Sensor networks in water distribution
- Inverse transient analysis and its application to pipeline condition assessment
- Stochastic models of rainfall and simulating catchment runoff, particularly focused on floods, droughts and climate change
- Biofilms in pipelines, and their impact on pipe roughness
- Development of spatial and point rainfall simulation models for continuous simulation in hydrology, and determining the effects of catchment moisture conditions on flood frequency distributions

Why should students study with the University of Adelaide?

As a university ranked in the top 1% globally, and with academics who are leaders in their fields, Adelaide provides a world-class education.

Also one of Australia's most respected research-intensive universities, Adelaide enables students to not only gain expertise in their field of interest, but make a real impact on the world's most challenging problems.

The career resources and opportunities provided here give our students a distinct advantage for career success following graduation.

Why research civil engineering at the University of Adelaide?

The University of Adelaide is ranked 17 in the world for civil engineering*. We are at the leading edge in areas such as smart water networks, and natural disaster risk management.

Higher-degree-by-research students in civil engineering are supervised by world-renowned academics, and supported by high-quality facilities.

The research groups in our school work closely with other universities and industry partners in a collaborative and supportive environment.

Projects students may be interested in

Smart Water Network (SWN) in Adelaide

South Australia's water utility, SA Water, has invested more than $4 million to set up the world's most comprehensive SWN (in terms of sensor variety and density) in Adelaide's central business district. Acoustic sensors are allowing the detection of leak before break conditions, leading to early intervention before pipe failure. Tracking water flow and pressures by SWN leads to better understanding and maintenance of the water distribution systems.

Hydraulic transient analysis and its application to pipeline leak detection and condition assessment

This research uses sophisticated numerical modelling to enable the quick and effective analysis of transient pressure data over long distances, allowing the non-invasive assessment of assets often buried underground.

Recent publications

Zeng, W., Gong, J., Cazzolato, B., Zecchin, A., Lambert, M., & Simpson, A. (2019). Condition assessment of pipelines using a Bi-directional layer-peeling method and a dual-sensor configuration. Journal of Sound and Vibration, 457, 181-196.

Zhang, C., Gong, J., Lambert, M., Simpson, A., & Zecchin, A. (2019). Sensor Placement Strategy for Pipeline Condition Assessment Using Inverse Transient Analysis. Water Resources Management, 33(8), 2761-2774.

Gong, J., Erkelens, M., Lambert, M., & Forward, P. (2019). Experimental Study of Dynamic Effects of Iron Bacteria-Formed Biofilms on Pipeline Head Loss and Roughness. Journal of Water Resources Planning and Management, 145(9), 11 pages.

Zhang, C., Gong, J., Simpson, A., Zecchin, A., & Lambert, M. (2019). Impedance estimation along pipelines by generalized reconstructive method of characteristics for pipeline condition assessment. Journal of Hydraulic Engineering, 145(4), 10 pages

Shi, H., Gong, J., Cook, P. R., Arkwright, J. W., Png, G. M., Lambert, M. F, Simpson, A. R. (2019). Wave separation and pipeline condition assessment using in-pipe fibre optic pressure sensors. Journal of Hydroinformatics, 21(2), 371-379.

Zeng, W., Gong, J., Zecchin, A., Lambert, A., Simpson, M., & Cazzolato, B. (2018). Condition assessment of water pipelines using a modified layer-peeling method. Journal of Hydraulic Engineering, 144(12), 04018076-1-04018076-11.

Shi, H, Gong, J, Zecchin, A, Lambert, M & Simpson, A 2017, 'Hydraulic transient wave separation algorithm using a dualsensor with applications to pipeline condition assessment,' Journal of Hydroinformatics, vol. 19(5), pp. 752-65.

Gong, J, Lambert, M, Zecchin, A, Simpson, A, Arbon, N & Kim, Y 2016, 'Field study on non-invasive and non-destructive condition assessment for asbestos cement pipelines by time-domain fluid transient analysis', Structural Health Monitoring, vol. 15(1), pp. 113-24.

* *Academic Ranking of World Universities 2019*

COMPUTER SCIENCE

TOP 3 REASONS TO RESEARCH COMPUTER SCIENCE AT THE UNIVERSITY OF ADELAIDE

1

Highly qualified and experienced academic staff

2

World-leading research supported by prestigious research grants and industry contracts

3

National and international prizes awarded for research commercialisation

The School of Computer Science undertakes a wide range of cutting-edge research activities, with highly qualified and experienced academic staff supervising a large number of master degree and PhD students.

Our particular areas of research strength include:

- computer vision (ranked third worldwide according to **csrankings.org**)
- machine learning, and especially deep learning and probabilistic graphical models
- robotic perception
- optimisation and logistics
- evolutionary computing
- distributed systems
- internet computing and web technologies
- algorithms
- cybersecurity
- software engineering
- computer science education.

The school has recently spawned the Australian Institute for Machine Learning, with support from the South Australian Government, to further capitalise on our unique and world-class expertise in computer vision and machine learning.

We have close links with numerous local and international companies, and access to world-class computing facilities, including exclusive use of a dedicated deep-learning supercomputer.

Industry and research partnerships

The school hosts a node of the ARC (Australian Research Council) Centre of Excellence in Robotic Vision—a $25 million collaboration between four Australian universities, developing new generation perception for robots in unstructured environments.

We also host a node of the Cooperative Research Centre in Cybersecurity, a $140 million venture to strengthen Australia's cybersecurity capability. And the school collaborates on a variety of projects with local and international companies, such as: Canon; Maptek; LBT Innovations; Lockheed Martin; Boeing; and Schneider Electric.

Research institutes

- **Australian Institute for Machine Learning**
  www.adelaide.edu.au/aiml

Research centres

- **Centre for Distributed and Intelligent Technologies**
  blogs.adelaide.edu.au/cdit
- **Centre for Research on Engineering Software Technologies**
  www.cs.adelaide.edu.au/research/crest

Research areas

School of Computer Science staff are active researchers and supervisors in a variety of areas:

- computer vision, robotic vision, machine learning
- cyber security
- distributed computing, the Internet of Things, and web technologies
- optimisation and logistics
- computer science education research
- complex systems
- networking and security
- software systems engineering.

Postgraduate coordinator

Dr Markus Wagner
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To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.cs.adelaide.edu.au**

Further information or advice

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SUPERVISOR SPOTLIGHT

TAT-JUN CHIN

Associate Professor

Fields of research

- Artificial intelligence
- Computer vision
- Machine learning
- Robotics
- Computer science

Awards

- Best Paper Award Finalist, CVPR Workshop, 2019
- Best of European Conference on Computer Vision (ECCV) invitation, 2018
- Defence Science and Technology (DST) Award, 2017
- Computer Vision and Pattern Recognition (CVPR) Award, 2015
- Defence Science and Technology Organisation (DSTO) Award, 2015

Why should students study with the University of Adelaide?

The University of Adelaide is a world-class university, with considerable strengths in many fields of enquiry, including the fundamentals of science and engineering. Research students will work with, and be supervised by, some of the best minds in the world.

The campus is set in the heart of the city of Adelaide, which is one of the most liveable places to be, and— importantly—an enlightened, forward-thinking city that fosters intellectual pursuits.

Why research artificial intelligence (AI) at the University of Adelaide?

The University of Adelaide hosts three core research institutes in AI: Australian Institute for Machine Learning (AIML); Australian Centre for Robotic Vision (ACRV); and the Data to Decisions (D2D) CRC. Collectively, these institutes employ more than 100 experts working on AI-related areas.

Our experts have won some of the most prestigious scientific awards and competitions in AI (visual recognition, object recognition), beating other world-leading organisations such as Google and Amazon.

Currently, our AI research is driving much of the state's industrial development. In this hotbed of creativity and innovation, research students play a central role in research, and receive training from leading experts, giving them a competitive edge in the technological world.

Projects students may be interested in

- Autonomous robots
- Self-driving cars
- Intelligent drones and unmanned aerial vehicles

Recent publications

T.-J. Chin, S. Bagchi, A. Eriksson and A. van Schaik, 'Star Tracking using an Event Camera', CVPR 2019 Workshop on Event-based Vision and Smart Cameras.

T.-J. Chin, Z. Cai and F. Neumann, 'Robust fitting in computer vision: easy or hard?', European Conference on Computer Vision (ECCV), 2018.

Z. Cai, T.-J. Chin, H. M. Le and D. Suter, 'Deterministic consensus maximization with biconvex programming', European Conference on Computer Vision (ECCV), 2018.

Q. Zhang, T.-J. Chin and H. M. Le, 'A fast resection-intersection method for the known rotation problem', Computer Vision and Pattern Recognition (CVPR), 2018.

A. Eriksson, C. Olsson, F. Kahl and T.-J. Chin, 'Rotation averaging and strong duality',

Computer Vision and Pattern Recognition (CVPR), 2018.

C. Rubino, A. del Bue and T.-J. Chin, 'Practical motion segmentation for urban street view scenes', International Conference on Robotics and Automation (ICRA), 2018.

ELECTRICAL AND ELECTRONIC ENGINEERING

TOP 3 REASONS TO RESEARCH ELECTRICAL AND ELECTRONIC ENGINEERING AT THE UNIVERSITY OF ADELAIDE

1

Proven track record in nurturing high-calibre graduates prepared for leading international careers

2

Academic staff who are world leaders in their disciplines

3

More than 60 years of research excellence

The School of Electrical and Electronic Engineering has a strong research focus. We achieved the maximum research quality rating in the 2018 Excellence in Research for Australia (ERA) assessment, and are ranked 1 in Australia and 42 in the world in our field.

Our academic staff excel in: systems and control; autonomous systems; energy storage; machine and drives; applied electromagnetics; photonics; radar systems; sonar signal processing; and biomedical and health technology.

The school's vision is to contribute to solving real-world problems through fundamental and applied research. We provide the highest quality PhD supervision and a supportive research environment, with strong linkages to local and international partners.

** Academic Ranking of World Universities, 2020*

Industry and research partnerships

Medical and health technologies

- Adelaide Women's and Children's Hospital
- Royal Adelaide Hospital
- South Australian Health and Medical Research Institute (SAHMRI)

Energy and control

- Australian Energy Market Operator (AEMO)
- Australian Renewable Energy Agency
- Future Battery Industries CRC
- SA Power Networks

Sensing and security

- BAE Systems
- Defence Science and Technology Group
- Los Alamos National Laboratory
- Osaka University
- Raytheon
- SmartSat CRC
- Universita Di Pisa

Research institutes

- **Environmental Institute**
  www.adelaide.edu.au/environment
- **Robinson Institute**
  www.adelaide.edu.au/robinson-research-institute

Research centres

- **Centre for Energy Technology**
  www.adelaide.edu.au/cet
- **ARC Research Hub for Graphene Enabled Industry Transformation**
  www.ecms.adelaide.edu.au/graphene-research-hub
- **Cyber Security CRC**

Research areas

School of Electrical and Electronic Engineering staff are active researchers and supervisors in the following three main themes:

Health technology

- Biomedical signal and image processing
- Biomedical electronic devices

Power and energy

- Systems analysis and control
- Machines and drives
- Renewable energy, energy storage and power systems

Sensing and security

- Microwave, terahertz, and photonics technologies
- Radar for surveillance and remote sensing
- Autonomous systems
- Applied electromagnetics

Postgraduate coordinator

Dr Withawat Withayachumnankul
E: pgceee@adelaide.edu.au

To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.eleceng.adelaide.edu.au**

Further information or advice

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The University of Adelaide
SA 5005 Australia

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W: www.eleceng.adelaide.edu.au

SUPERVISOR SPOTLIGHT

CHRISTOPHE FUMEAUX, FIEEE

Professor

Editor-in-Chief, IEEE Antennas and Wireless Propagation Letters

Fields of research

- Antenna technology
- Microwave engineering
- Applied electromagnetics
- Electromagnetic micro and nano structures

Awards

- IEEE Sensors Journal Best Paper Award, 2014
- Faculty of Engineering, Computer and Mathematical Sciences Prize for Excellence in Higher Degree by Research Supervision, 2016
- CST University Award, 2017
- Edward E. Altshuler Award for best paper in the IEEE Antennas and Propagation Magazine, 2018
- Stephen Cole the Elder Award for Excellence in Higher Degree by Research Supervision, 2018
- More than 10 best student paper awards at IEEE conferences in the last five years

Why should students study with the University of Adelaide?

The University of Adelaide is a world-class research-intensive university. It is uniquely located in the heart of one of the most liveable cities in the world. Studying in Adelaide allows students to experience quality education, combined with a great lifestyle. The University offers excellent support for international students, so they feel welcome and valued in a diverse and inclusive environment.

Why research applied electromagnetics at the University of Adelaide?

Research in areas related to electromagnetics has a long tradition at the University of Adelaide, with myriad activities in antenna and microwave engineering, radar, radio-frequency identification technologies, terahertz electronics and biomedical engineering.

The Applied Electromagnetics Group enjoys an international reputation for its cutting-edge research on all aspects of today's antenna engineering. Pursued applications extend over the spectrum from radio-frequencies to microwaves, and from terahertz to the optical regime.

Our research students originate from many different countries, and form a highly dynamic and supportive group. Their research benefits from experienced supervision and access to state-of-the-art equipment. Our alumni are well prepared for careers in industry, government agencies and academia.

Projects students may be interested in

- Wearable antennas and waveguides for biomedical monitoring
- Polarization-, pattern- and frequency-reconfigurable antennas
- Metamaterials and novel materials in electromagnetics
- Substrate-integrated technologies
- Terahertz reflectarrays and metasurfaces
- Radio-frequency-inspired optical nano-antennas

Recent publications

Headland, D, Monnai, Y, Abbott, D, Fumeaux, C & Withayachumnankul, W 2018, 'Tutorial: Terahertz beamforming, from concepts to realizations', APL Photonics 3, 051101.

Nguyen-Trong, N, Pinapati, SP, Hall, D, Piotrowski, A & Fumeaux, C 2018, 'UltraLow-Profile and Flush-Mounted Monopolar Antennas Integrated into a Metallic Cavity', IEEE Antennas and Wireless Propagation Letters, vol. 17(1), pp. 86-9.

Zou, C, Withayachumnankul, W, Bhaskaran, M, Sriram, S & Fumeaux, C 2017, 'Dielectric Resonator Nanoantennas: A review of the theoretical background, design examples, prospects, and challenges, Antennas and Propagation Magazine, vol. 59(6), pp. 30-42.

Nguyen-Trong, N, Piotrowski, A & Fumeaux, C 2017, 'Frequency-reconfigurable dualband low-profile monopolar antenna', IEEE Transactions on Antennas and Propagation, vol. 65(7), pp. 3336-43.

Wickramasinghe, A, Ranasinghe, DC, Fumeaux, C, Hill, KD & Visvanathan, R 2017, 'Sequence learning with passive RFID sensors for real time bed-egress recognition in older people', IEEE Journal of Biomedical and Health Informatics, vol. 21(4), pp. 917-29.

Chen, SJ, Kaufmann, T, Ranasinghe, DC & Fumeaux, C 2016, 'A modular textile antenna design using snap-on buttons for wearable applications', IEEE Transactions on Antennas and Propagation, vol. 64(3), pp. 894-903

MATHEMATICAL SCIENCES

TOP 3 REASONS TO RESEARCH MATHEMATICAL SCIENCES AT THE UNIVERSITY OF ADELAIDE

1

One of Australia's leading mathematics schools, receiving the top rating of 'well above world standard' in the most recent national evaluation of research*

2

Award-winning staff, including medallists of the Australian Mathematical Society and Australian Academy of Science

3

Excellent opportunities and facilities in a thriving and stimulating environment, including access to one of the country's best supercomputers

** Excellence in Research for Australia 2018*

The School of Mathematical Sciences has a long history of achievement in research and postgraduate education, and a reputation for providing a stimulating and supportive environment. Recognised for excellence in both research and teaching across applied mathematics, pure mathematics and statistics, our staff are Australian leaders in postgraduate research training in these areas.

We're highly respected internationally for our research in: geometry and mathematical physics; statistics; operations research; stochastic modelling; theoretical fluid dynamics; computational methods; modelling of problems in biology, materials science, geophysics and more.

Industry and research partnerships

The school's research partnerships notably include strong collaborative links with the Australian Wine Research Institute, the South Australian Health and Medical Research Institute, the Institute for Photonics and Advanced Sensing, the Australian Antartic Division, the Australia-China Joint Research Centre on Wind and Wave Energy Harnessing, the Bureau of Meteorology, and CSIRO—providing the opportunity for students to work on projects at the interface of mathematics and the life and physical sciences.

Research centres

- **Australian Research Council Centre of Excellence for Mathematical and Statistical Frontiers**
  www.acems.org.au
- **Institute for Geometry and its Applications**
- **National Health and Medical Research Council Centre for Research Excellence in Policy Relevant Infectious Disease Simulation and Mathematical Modelling**
  www.prism.edu.au

Research areas

- Pure mathematics: geometry and mathematical physics
- Statistics
- Applied mathematics: stochastic modelling and operations research
- Applied mathematics: fluid dynamics, computational methods, modelling of problems in biology, materials science and geophysics

To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.ecms.adelaide.edu.au/maths**

Postgraduate coordinator

Associate Professor Ben Binder
E: pgcmaths@adelaide.edu.au

Further information or advice

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JOHN MCCARTHY

MPhil in Mathematical Sciences

"By studying alongside motivated students and under leading researchers, I've learnt the skills to communicate complicated ideas to others, as well as the ability to investigate new and complex ideas deeply.

Due to my work at the University of Adelaide, I've been given the opportunity to undertake a fully-funded PhD at the London School for Geometry and Number Theory, a prestigious program run jointly between Imperial College London, University College London and King's College London."

SUPERVISOR SPOTLIGHT

YVONNE STOKES

Professor

Fields of research

- Applied mathematics
- Fluid dynamics (behaviour of fluids)

Awards

- University of Adelaide Women's Research Excellence Award, 2015
- ARC Future Fellowship 2017-2020
- E.O. Tuck Medal, 2018

Why students should study with University of Adelaide?

The city of Adelaide ranks among the most liveable cities in the world. It's a beautiful, vibrant city and there are many great places to visit on its doorstep. This is the home of the University of Adelaide, one of Australia's prestigious Group of Eight research-intensive universities.

It has an excellent reputation, both nationally and internationally, and boasts a number of world-renowned research institutes; one being the Institute for Photonics and Advanced Sensing (IPAS), of which I'm a member. IPAS operates at the forefront of cutting-edge multidisciplinary research involving optics.

Why research fluid dynamics at the University of Adelaide?

Fluids are everywhere in the natural, physical and industrial worlds. A spider spinning a web, blood flow, lava flow, the weather, breakup of pack ice, glass blowing and spray painting are just a few areas in which fluids feature. Understanding their behaviour is of scientific interest, and discovering how they can be manipulated and controlled leads to technological advances.

Fluid dynamics has been a University of Adelaide research strength from its founding, when Sir Horace Lamb—a pioneer in the field—became one of the first four professors of the new university. And our research in this area continues to be recognised internationally today.

Projects students may be interested in

- Fabrication of novel microstructured optical fibres
- Chemical signalling and cell response in tissue
- Cell sorting in spiral microfluidic ducts

Recent publications

Harding, H, Stokes,YM & Bertozzi, AL, 2019, 'Effect of inertial lift on a spherical particle suspended in flow through a curved duct', Journal of Fluid Mechanics, vol 875, pp. 1-43.

Stokes,YM, Wylie, JJ & Chen, MJ, 2019, 'Coupled fluid and energy flow in fabrication of microstructured optical fibres', Journal of Fluid Mechanics, vol. 874, pp. 548-572.

Tronnolone, H & Stokes,YM, 2018, 'Pinch-off masses of very viscous fluids extruded from dies of arbitrary shape', Physics of Fluids, vol. 30, 073103.

Harding, B & Stokes,YM 2018, 'Fluid flow in a spiral microfluidic duct', Physics of Fluids, vol. 30, 042007. Arnold, DJ, Stokes,YM & Green, JEF 2017, 'Thin-film flow in helically-wound channels of arbitrary cross-sectional shape', Physics of Fluids, vol. 29, 013102.

Tronnolone, H, Stokes,YM & Ebendorff Heidepriem, H 2017, 'Extrusion of fluid cylinders of arbitrary shape with surface tension and gravity', Journal of Fluid Mechanics, vol. 810, pp. 127-54.

Chen, MJ, Stokes,YM, Buchak, P, Crowdy, DG & Ebendorff Heidepriem, H 2016, 'Asymptotic modelling of a six-hole MOF,' Journal of Lightwave Technology, vol. 35, pp. 5651-56.

MECHANICAL ENGINEERING

TOP 3 REASONS TO RESEARCH MECHANICAL ENGINEERING AT THE UNIVERSITY OF ADELAIDE

1

World-leading research and teaching expertise

2

Vibrant and innovative environment focused on making an impact on knowledge generation and technology development

3

State-of-the-art research facilities and technical support

The School of Mechanical Engineering is proud of its long-standing tradition of high-quality research and postgraduate student education. Undertaking a range of fundamental and applied research, we've developed many new and innovative technologies that have made an impact throughout the world.

Our research is conducted across a diverse range of areas, including: fluid mechanics and aerodynamics; acoustics and vibrations; combustion; robotics and automation; renewable energy technology; humanitarian technology; biomechanics and sports engineering; and materials and structures.

The school has received the Australian Government's highest ranking for research quality*. Highly-skilled technical staff and fully equipped instrumentation, electronics and mechanical workshops support the sophisticated facilities and equipment necessary to sustain the research activities of the school.

** Excellence in Research for Australia rating of 5, 'well above world-standard', 2018.*

Research institutes

- **Institute for Mineral and Energy Resources**
  www.adelaide.edu.au/imer
- **Australian Institute for Machine Learning**
  www.adelaide.edu.au/aiml
- **Institute for Photonics and Advanced Sensing**
  www.adelaide.edu.au/ipas

Research centres

- **Centre for Energy Technology**
  www.adelaide.edu.au/cet
- **Humanitarian Research**
  www.adelaide.edu.au/humanitarian

Research areas

School of Mechanical Engineering staff have active research interests in a variety of areas. These include:

- acoustics, vibration and control
- mechanics of materials and advanced manufacturing
- robotics and automation
- biomechanics and sports engineering
- thermofluids.

To find a supervisor, submit a research proposal or learn more about this area of research, visit: **www.mecheng.adelaide.edu.au**

Postgraduate coordinator

Associate Professor Paul Medwell
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Further information or advice

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NUR AFIFAH KAMARUZAMAN

PhD in Mechanical Engineering

"To be part of a world-class research culture with warm, supportive staff members has been a truly rewarding experience. I have learned so much and feel honoured to have shared my work in local and international conferences, thanks to the generous funding and opportunities provided by the university."

SUPERVISOR SPOTLIGHT

MAZIAR ARJOMANDI

Associate Professor, Research Director

Fields of research

- Fluid mechanics and aerodynamics
- Renewable energy systems, including wind, wave and solar thermal energy
- Aerospace engineering
- Microfluidics and hemodynamics

Awards

- The Stephen Cole the Elder Award for Excellence, High Commendation for HDR Supervisory Practice, University of Adelaide, Australia, 2016
- Outstanding Achievements in a Research team, School of Mechanical Engineering, University of Adelaide, Australia, 2015
- Outstanding Achievements in HDR (higher degree by research) Supervision, School of Mechanical Engineering, University of Adelaide, Australia, 2015

Why should students study with the University of Adelaide?

There are multiple reasons why a student should undertake a research program with the University of Adelaide.

For example: we're ranked in the top 1% of universities in the world; we're a member of Australia's prestigious Group of Eight research-intensive universities; all of our research subfields including mechanical engineering are assessed to be above or well above world standard in the Excellence in Research for Australia (ERA) 2018 assessment; our publication and citation numbers are above world-average relative to our size; and we're the largest university in South Australia.

Why research fluid mechanics at Adelaide?

The University of Adelaide houses several world-leading research groups, and outstanding facilities, all established with the objective to make a difference in the world. The training and mentoring research students receive here positions them at the forefront of knowledge and technology development.

Fluid mechanics, and its application to different fields, such as energy systems, has a long history at the University. Our world-leading position in the field is evidenced by our roles in several large national and international consortia such as the Australian Solar Thermal Research Initiative (ASTRI), the Future Fuel Cooperative Research Centre (FFCRC) and the AustraliaChina Joint Research Centre of Offshore Wind and Wave Energy.

These involve research in: renewable energy; future fuel development; sports engineering; and humanitarian technology.

Projects students may be interested in

- Arterial hemodynamics and prediction of cardiovascular disease
- Development of solar receivers, such as free-falling particle receivers, bubbling receivers, fluidised bed receivers
- Application of molten metals for energy storage, hydrogen production and energy storage
- Passive and active flow and noise control, using additive manufacturing techniques
- Investigating the performance and wake of wind turbines
- Vortex- and wake-induced vibration of bluff objects
- Micro-channels and nano-fluids

Recent publications

Sarafraz, M & Arjomandi, M 2018, 'Thermal performance analysis of a microchannel heat sink cooling with copper oxide-indium (CuO/ In) nano-suspensions at high-temperatures', Applied Thermal Engineering, vol. 137, pp. 700- 9, doi:10.1016/j.applthermaleng.2018.04.024

Sergiienko, N, Rafiee, A, Cazzolato, B, Ding, B & Arjomandi, M 2018, 'Feasibility study of the three-tether axisymmetric wave energy converter', Ocean Engineering, vol. 150, pp. 221- 33, doi:10.1016/j.oceaneng.2017.12.055

Emes, M, Ghanadi, F, Arjomandi, M & Kelso, R 2018, 'Investigation of peak wind loads on tandem heliostats in stow position', Renewable Energy, vol. 121, pp. 548-58, doi:10.1016/j.renene.2018.01.080

Silvestri, A, Ghanadi, F, Arjomandi, M, Chin, R, Cazzolato, B & Zander, A 2017, 'Attenuation of turbulence by the passive control of sweep events in a turbulent boundary layer using micro-cavities', Physics of Fluids, vol. 29(11), doi:10.1063/1.4995466

Sedaghatizadeh, N, Arjomandi, M, Cazzolato, B & Kelso, R 2017, 'Wind farm noises: mechanisms and evidence for their dependency on wind direction', Renewable Energy, vol. 109(C), pp. 311-22, doi:10.1016/j.renene.2017.03.046

Silakhori, M, Jafarian, M, Arjomandi, M & Nathan, G 2017, 'Comparing the thermodynamic potential of alternative liquid metal oxides for the storage of solar thermal energy', Solar Energy, vol. 157, pp. 251-8, doi:10.1016/j.solener.2017.08.03

FACULTY OF HEALTH AND MEDICAL SCIENCES

The Faculty of Health and Medical Sciences is a world leader in health education and impactful research. Our researchers conduct cutting edge, transformative research that provides new insights into human biology and delivers real health outcomes to our community. We seek to improve both national and international health care.

The Faculty of Health and Medical Sciences conducts world-class fundamental, biomedical, translational and population health research that is internationally recognised. Our research activities cover the life course, from conception to ageing, and fall under 17 key areas.

Health-related research has vastly improved the lives of our community and contributed to the greater wellbeing of our society. Innovative technologies and novel scientific discoveries have led to new treatments, new ways of thinking and development of new health policy.

We offer degrees in medicine and surgery, dentistry and oral health, nursing, health and medical sciences, public health, psychology, counselling and psychotherapy, and addiction studies. Our faculty has an outstanding reputation for teaching and producing career ready graduates, and is ranked third in Australia for securing full-time employment (Australian Graduate Survey 2015).

Study with us and you will be guided by outstanding educators and researchers who are national and international leaders in their fields. Students will learn in stunning, state-of-the-art facilities that are among not just Australia's best, but the world's.

Our learning and teaching programs are designed to develop highly skilled and compassionate professionals who aspire to the highest standards of integrity and ethical behaviour. Students will also be part of a vibrant student and campus culture, and be given every possible support to help them succeed.

Adelaide Health and Medical Sciences building

ALLIED HEALTH

TOP 3 REASONS TO RESEARCH ALLIED HEALTH AT THE UNIVERSITY OF ADELAIDE

1

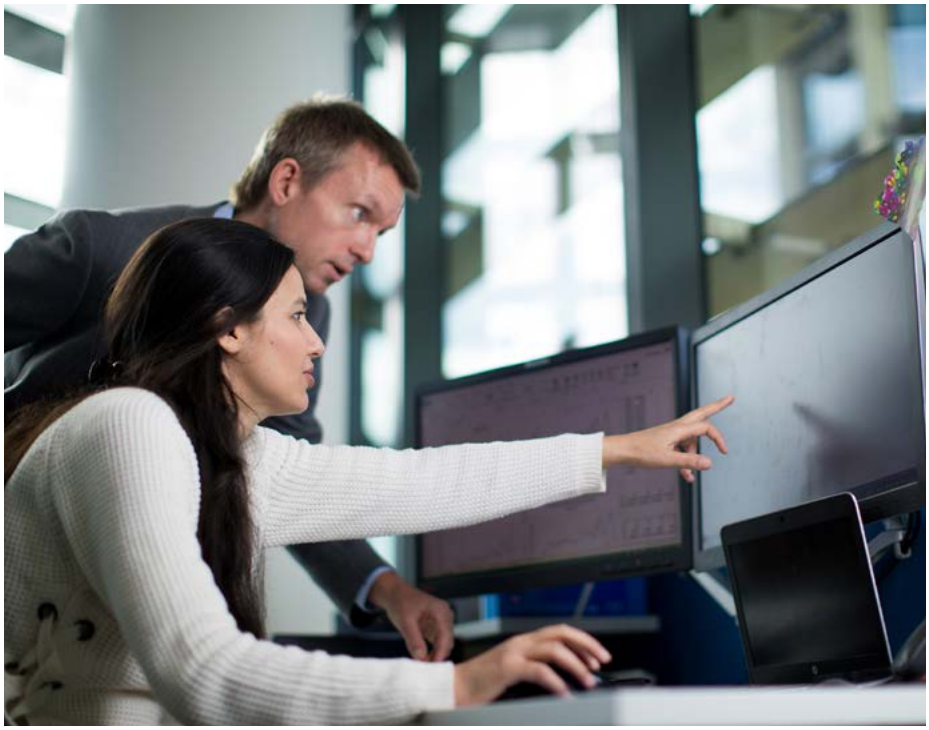
Outstanding researchers in clinical, translational, and interprofessional fields

2

A robust collaborative network, including public and private health care organisations, industry, and community partnerships

3

Part of South Australia's most comprehensive and unrivalled health research environment



The School of Allied Health Science and Practice brings together multiple healthcare disciplines creating an interprofessional and collaborative research environment. The School's academic staff have broad experience in the delivery of high-quality and innovative clinical and translational research providing you with the opportunity to undertake research in cutting-edge, custom-built facilities under the expert guidance of supervisors with industry recognised experience.

Research areas

Researchers in the School of Allied Health Science and Practice can provide you with access to a comprehensive array of interdisciplinary research opportunities. Our researchers seek novel approaches and contributions to providing industry-best client outcomes. The school's research spans a broad range of fields, including:

- Physiotherapy
- Occupational therapy
- Speech pathology
- Chronic pain
- Public health
- Neuroscience
- Cultural and linguistic diversity
- Social communication skills
- Policy, health equity, and justice
- Cancer treatment.

Industry and research partnerships

The School of Allied Health Science and Practice's academic staff have strong relationships with numerous research centres, health care providers, government agencies and industry organisations.

Allied Health postgraduate coordinator

Dr Rutger de Zoete
Email: rutger.dezoete@adelaide.edu.au

Further information or advice

School of Allied Health Sciences and Practice
Faculty of Health and Medical Sciences
The University of Adelaide
SA 5005 Australia

E: fhsresed@adelaide.edu.au
W: www.health.adelaide.edu.au/our-research

PUBLIC HEALTH

TOP 3 REASONS TO RESEARCH PUBLIC HEALTH AT THE UNIVERSITY OF ADELAIDE

1

Strong track record in preventing disease and promoting health, and a genuine influence on health policies and practices

2

Consistently produces specialist leaders and world-leading researchers making discoveries in diverse fields of health care

3

Researchers work closely with industry, government and non-government organisations to ensure research and community engagement remain focused on real world problems

Through our engagement as a community of leading scientists, educators and students, the School of Public Health aims to advance innovative ideas to change individual behaviours, public policies, and health care practices. We are recognised locally, nationally and internationally for our research.

Our senior academic staff are leaders in their fields – in areas such as child health and development, life course epidemiology, genetic epidemiology, health technology assessment, economic modelling, health impacts of climate change, indigenous health, community engagement and the use of deliberative methods in health research.

Research areas

Our world-leading researchers can offer you access to a comprehensive research portfolio, with a particular emphasis on health services research, health policy analysis, child health development, health economics and evidence synthesis and review—each highlighted by the McKeon Review's report into Australia's health and medical research sector (2013) as strategic for population health research.

Some specific areas of focus include: evidence-based service provision and health program evaluation; preventive, clinical and occupational (chronic diseases) epidemiology; and the development of public health databases. This is in addition to national priority areas: Indigenous health; primary health care; healthy start for a healthy life; new and emerging health threats; and health in the Asia-Pacific region.

The School of Public Health conducts diverse quantitative and qualitative research in a range of areas extending across the faculty's 17 research areas. Studying with the school will give you the opportunity to undertake research with a range of differently focused groups, including:

- Adelaide Exposure Science and Health
- Adelaide Health Technology Assessment (AHTA)
- BetterStart - Child Health and Development Research Group
- Communities, People and Health Research Group
- Environment and Health Research Group
- Health Workforce Planning Group
- Joanna Briggs Institute
- Life Course and Intergenerational Health Group

Public Health postgraduate coordinator

Dr Jaklin Eliott
E: jaklin.eliott@adelaide.edu.au

The Joanna Briggs Institute:

Dr Edoardo Aromataris
E: ed.aromataris@adelaide.edu.au

Dr Craig Lockwood
E: craig.lockwood@adelaide.edu.au

To find a supervisor or learn more about this area of research, visit:
www.health.adelaide.edu.au/public-health

Industry and research partnerships

The school focuses on developing strong research partnerships and collaborative engagement with health services, state and federal government agencies, health industry and not-for-profit organisations.

These include:

- Department of the Premier and Cabinet
- Child and Family Health Service
- SA Health
- Department for Child Protection
- Government of South Australia
- Women's and Children's Health Network
- SA Health Research and Evaluation Unit WCHN
- Wardliparingga Aboriginal Research Unit
- SAHMRI and SA Health: Quality, Information and Performance
- Northern Adelaide Local Health Network.

Further information or advice

School of Public Health
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SA 5005 Australia

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W: www.health.adelaide.edu.au/our-research

NURSING

TOP 3 REASONS TO RESEARCH NURSING AT THE UNIVERSITY OF ADELAIDE

1

Nursing clinicians and academics dedicated to furthering nursing as a practice and discipline, with a program of research specifically aimed at improving patient care

2

Internationally recognised leaders renowned for their ground breaking work in knowledge translation research

3

Strong collaborations with hospitals, industry partners, and other practitioners

The Adelaide Nursing School promotes world-class nursing research, scholarship and clinical practice and actively supports the community through student-centred degrees and research. Our school brings together an energetic, enthusiastic group of nursing clinicians and academics interested in furthering nursing as a practice and discipline.

Our academic staff are highly experienced clinicians and our teaching is informed by active, ongoing research that focuses on the experiences of health and illness, the practice of nursing and the effects of nursing on health outcomes.

Industry and research partnerships

The Adelaide Nursing School focuses on service innovation and new models of care, quality improvement and implementation of evidence-based practice through active partnerships with health care providers including Northern Adelaide Local Health Network, the Queen Elizabeth Hospital and the Royal Adelaide Hospital.

The school also helps to shape SA Health policy, transitioning care between acute and community settings.

Research Centre

The Centre for Evidence-based Practice South Australia (CEBSA) is an affiliate centre of the Joanna Briggs Institute which aims to improve health care in South Australia through knowledge synthesis of research relevant to contemporary health care practices and knowledge translation activities in collaboration with industry partners.

Research areas

The Adelaide Nursing School is committed to developing transformative health care practice and knowledge, providing an excellent environment for interdisciplinary research and/or postgraduate degrees.

Adelaide Nursing School provides opportunities for students to participate in core research programs. These are:

- Enhancing professional practice
- Improving Aboriginal health care
- Implementation research and practice
- Centre for Evidence-based Practice South Australia (CEPSA)

Our research programs extend across the Faculty of Health and Medical Sciences' 17 key research areas.

Nursing postgraduate coordinator

Dr Tim Schultz
E: tim.schultz@adelaide.edu.au

To find a supervisor or learn more about this area of research, visit:
www.health.adelaide.edu.au/nursing

Further information or advice

Adelaide Nursing School
Faculty of Health and Medical Sciences
The University of Adelaide
SA 5005 Australia

E: fhsresed@adelaide.edu.au
W: www.health.adelaide.edu.au/our-research

MEDICINE

TOP 3 REASONS TO RESEARCH MEDICINE AT THE UNIVERSITY OF ADELAIDE

1

Vibrant research community involved in discovery, innovation and cutting-edge research

2

A philosophy centred on preparing students with skills for life, opening many career pathways including research and industry

3

A strong focus on addressing global challenges and access to state-of-the-art facilities, for students interested in changing the world

Adelaide Medical School is the largest school in the University, providing a world-class, innovative, collaborative learning environment for students studying translational medicine and research. Building on a well-established international reputation for expanding knowledge, Adelaide Medical School offers a diverse range of biomedical and health care research programs across many disciplines.

The Adelaide Medical School provides a stimulating research environment, with access to state-of-the-art facilities, including the Adelaide Health and Medical Sciences building and multifunctional Ray Last Laboratories. Students will also have the opportunity to expand their knowledge and capabilities under the expert guidance of research supervisors who are internationally recognised, and who collaborate widely with numerous major research institutes.

Industry and research partnerships

At the Adelaide Medical School we work with a broad range of industry partners, from small start-ups to large multinational pharmaceutical and medical device companies, as well as state and federal government departments.

We successfully identify and develop technologies to address unmet medical needs in the community, and translate these to market in collaboration with industry partners. Technologies developed across a range of disciplines have been commercialised, both domestically and internationally. Our researchers have strong partnerships with major research institutes both in Australia and internationally.

These include the South Australian Health and Medical Research Institute (SAHMRI), the Royal Adelaide Hospital, the Queen Elizabeth Hospital, Lyell McEwin Hospital, and regional hospitals.

In addition, there are exciting international partnerships with universities in Nagoya (Japan), Freiberg (Germany) and Nottingham (UK).

Research institutes

- **The Basil Hetzel Institute for Translational Health Research**
  www.basilhetzelinstitute.com.au
- **The Robinson Research Institute**
  www.adelaide.edu.au/robinson-research-institute
- **The South Australian Institute of Ophthalmology**
  www.health.adelaide.edu.au/ophthalmology

Research centres

- **Centre for Orthopaedic and Trauma Research**
  www.adelaide.edu.au/ortho-trauma
- **Centre for Heart Rhythm Disorders**
  www.adelaide.edu.au/chrd
- **Centre for Nanoscale BioPhotonics**
  www.cnbp.org.au
- **Dame Roma Mitchell Cancer Research Laboratories**
  www.health.adelaide.edu.au/medicine/drmcrl
- **Adelaide Geriatrics Training and Research with Aged Care (G-TRAC) Centre**
  www.health.adelaide.edu.au/medicine/g-trac
- **Centre for Research Excellence in Translating Nutritional Science to Good Health**
  www.adelaide.edu.au/cre-nutrition
- **Freemasons Foundation Centre for Men's Health**
  www.adelaide.edu.au/menshealth
- **Vascular Research Centre**
  www.sahmriresearch.org/our-research/themes/heart-health/groups/vascular-research-centre
- **Pain and Anaesthesia Research Clinic**
  www.adelaide.edu.au/painresearch

Research areas

Adelaide Medical School researchers are internationally recognised across a range of activities that cover the life course, from conception to ageing and fall under 17 key research areas.

Some particular strengths include:

- cancer biology and clinical oncology
- cardiac
- respiratory and vascular health
- fertility and conception
- pregnancy and birth
- early origins of health
- child and adolescent health
- neuroscience, behaviour and brain health
- surgical and health systems innovation
- nutrition and metabolic health
- musculoskeletal health
- immunology and infection.

When you join the Adelaide Medical School you will become part of a vibrant, high impact research community. At any one time there are over 500 students enrolled in our honours, master's and PhD programs, all striving to transform lives by improving human health.

Medicine postgraduate coordinators

www.adelaide.edu.au/graduatecentre/current-students/student-support/postgraduate-coordinators#faculty-of-health-medical-sciences

To find a supervisor, or learn more about this area of research, visit: **www.health.adelaide.edu.au/medicine/research**

Further information or advice

To read about our research opportunities download the Honours and Postgraduate Research Opportunities Booklet: **www.health.adelaide.edu.au/our-research/honours-and-higher-degrees-by-research**

Adelaide Medical School
Faculty of Health and Medical Sciences
The University of Adelaide
SA 5005 Australia

E: fhsresed@adelaide.edu.au
W: www.health.adelaide.edu.au/our-research

PSYCHOLOGY

TOP 3 REASONS TO RESEARCH PSYCHOLOGY AT THE UNIVERSITY OF ADELAIDE

1

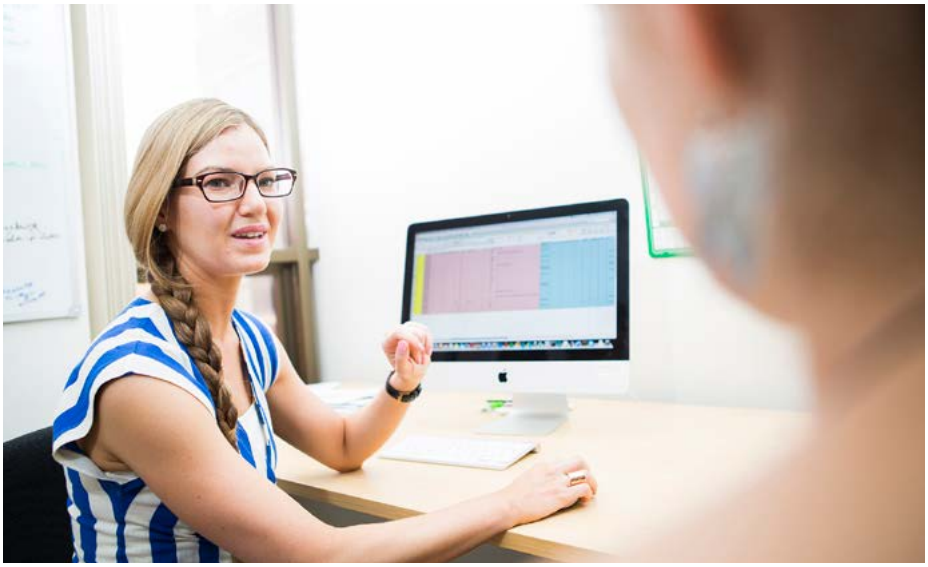
Range of accredited pathways through unique career programs leading to registration as a psychologist

2

Research strengths spanning health, disability and lifespan development of cognition, brain, and social and organisational psychology

3

Exceptional teaching clinics and practices, specialised research groups, and access to a range of dynamic applied and basic research and teaching opportunities



The School of Psychology has a proud history at the University of Adelaide and partners with teaching clinics to provide vital community services and train the next generation of psychologists and mental health workers. With academics active in research, teaching clinics and practices, the school community fosters high-quality research, teaching and learning.

The school's research strengths span several core areas of psychological inquiry and the school has a vibrant PhD student body, with over 80 higher degree by research students studying across the various research areas and at various stages of their candidature.

Industry and research partnerships

Psychology researchers have established, collaborative links across many sectors including SA Health, Cancer Council SA and the National Centre for Farmer Health as well as local, national and international universities.

In addition to conducting basic research into psychological processes, the school also has a strong interest in conducting multidisciplinary research in association with industry partners including Defence Science and Technology Group.

Research areas

School of Psychology researchers undertake a range of research projects, covering a variety of research areas. These include: neuroscience, behaviour and brain health; ageing, frailty and mobility and child and adolescent health and make up some of the Faculty of Health and Medical Sciences' 17 research areas.

The school's research spans many fields of psychological inquiry, but reflects particular strengths in the areas of health, disability and lifespan development, cognition and brain, and social and organisational psychology.

These strengths provide a unique opportunity for postgraduate studies to be offered in three professional master's programs leading to registration as a psychologist (clinical, health, and organisational and human factors).

Studying at the school will give you the opportunity to undertake research with a range of different groups with different focuses, including:

- Associative Learning Lab
- Psychology Education Research Group
- Wellbeing Research Unit.

Psychology postgraduate coordinator

Dr Diana Dorstyn
diana.dorstyn@adelaide.edu.au

To find a supervisor, or learn more about this area of research, visit:
www.health.adelaide.edu.au/psychology

Further information or advice

School of Psychology
Faculty of Health and Medical Sciences
The University of Adelaide
SA 5005 Australia

E: fhsresed@adelaide.edu.au
W: www.health.adelaide.edu.au/our-research

DENTISTRY

TOP 3 REASONS TO RESEARCH DENTISTRY AT THE UNIVERSITY OF ADELAIDE

1

State-of-the-art teaching facilities that harness the most advanced teaching methods, simulators and the latest technology

2

Accredited and clinically focused program in dentistry and oral health define the benchmark for training and research in clinical practice

3

A supportive and collegial learning environment focused on ensuring positive student learning experiences and outcomes

The Adelaide Dental School is one of Australia's peak centres of excellence in oral health, delivering internationally recognised education, research and service.

The school offers a comprehensive range of accredited, clinically-focused undergraduate and postgraduate dentistry and oral health degrees, including the Bachelor of Dental Surgery, Graduate Certificate of Oral Health Science and the Doctor of Clinical Dentistry.

The Adelaide Dental School and the Adelaide Dental Hospital is located in the new state-of-the-art Adelaide Health and Medical Sciences (AHMS) building. These new clinical facilities complement the existing high-tech facilities in the Dental Simulation Clinic.

Research centre

- **Australian Research Centre for Population Oral Health**
  www.adelaide.edu.au/arcpoh

Research units

- Craniofacial Biology
- Dental Education
- Endodontics and Pulp Biology
- Forensic Odontology
- Oral and Maxillofacial Surgery
- Oral Microbiology and Immunology
- Oral Pathology
- Orthodontics
- Paediatric Dentistry
- Periodontics

Research areas

Oral health is an essential component of a healthy life. Oral health is not only concerned with teeth, but the health of oral and related tissues that enables an individual to eat, speak and socialise without active disease, discomfort or embarrassment, all of which contribute to general wellbeing.

Our research spans a broad range of fields including: dental education, endodontics and pulp biology (stem cell research), periodontics, orthodontics, craniofacial biology, oral and maxillofacial surgery, forensic odontology, population oral health, and cancer treatment spanning many of the faculty's 17 key research areas.

Our research activity also includes epidemiological studies focusing on the efficacy of population oral health interventions, oral health services and oral health policy analysis in relation to oral disease prevention and provision of optimal dental health services.

Researchers across the faculty are focused on:

- assessing intergenerational change in oral health in Australia
- monitoring of Indigenous oral health and the use of dental services
- performing population-based studies focusing on socioeconomic and psychosocial factors related to the use of dental services
- investigating patient-reported outcomes of dental care, such as oral health impact, health utility and quality of life.

Postgraduate coordinator

Professor David Brennan
david.brennan@adelaide.edu.au

To find a supervisor or learn more about this area of research, visit: **www.health.adelaide.edu.au/dentistry/research**

Industry and research partnerships

The Adelaide Dental School fosters collaborative relationships with a broad range of researchers from academic institutions both locally and internationally. Striving to make a difference to the lives of others, oral health researchers promote collaborative industry partnerships, including a long-standing relationship with Colgate Oral Care.

Further information or advice

Adelaide Dental School
Faculty of Health and Medical Sciences
The University of Adelaide
SA 5005 Australia

E: fhsresed@adelaide.edu.au
W: www.health.adelaide.edu.au/our-research

FACULTY OF THE PROFESSIONS

The Faculty of the Professions conducts a diverse range of stimulating research— from global food to entrepreneurship, from space law to microeconomics.

We are proud of the faculty's real-world impact, and global standing. Our Military Law and Ethics research unit, for example, partners with universities from Canberra, the United Kingdom, and the United States of America to positively influence the future and sustainability of humankind's activities in outer space. Our Business School is accredited by the international Association to Advance Collegiate Schools of Business (AACSB). With only the world's best schools earning the honour, this is the hallmark of business education excellence.

The learning we foster is directly shaped by the needs of the professions and disciplines we serve. The research-based knowledge undertaken by our Entrepreneurship, Commercialisation and Innovation Centre powers entrepreneurial programs facilitating exceptional opportunities for start-ups to access the resources they need to rapidly accelerate their growth.

Our Centre for Global Food and Resources collaborates with women and ethnic minorities in north-western Vietnam to improve farming practices, reduce poverty and improve nutrition as part of an international agricultural research project. Plus there are numerous other examples of end-user-focused research.

We are excited to invite international candidates to enrol in a postgraduate research program with us, to share their skills and play an instrumental role in the world.

BUSINESS

TOP 3 REASONS TO RESEARCH BUSINESS AT THE UNIVERSITY OF ADELAIDE

1

Research initiatives that have real-life and commercial impact

2

Strong research alliances with business industry partners

3

Research with an AACSB institution*

Research in our school, institutes and centres is, by its very nature, set in the global context. We recognise the part our international students play in contributing to the creation and dissemination of knowledge in their field, and welcome their input into the life of our faculty.

With an Excellence in Research for Australia rating of four^ the Finance and Marketing disciplines are above world standard.

** Association to Advance Collegiate Schools of Business*

^ ERA Outcomes 2018

Accounting

Adelaide Business School's modern accounting research:

- examines governance mechanisms and accountability structures within and outside organisations, collecting and analysing information to improve their performance
- impacts policy and practice in accounting, with close links to the accounting profession.

Entrepreneurship and Innovation

Our Entrepreneurship, Commercialisation and Innovation Centre delivers valuable research that examines:

- how entrepreneurs and ventures originate, develop and grow
- how innovation improves the performance of public and private organisations
- how entrepreneurial behaviour supports and sustains socioeconomic development and growth
- how policies, infrastructure and support can foster better entrepreneurship and innovation outcomes
- how family businesses respond to inter-generational and family-dynamic challenges.

Finance and Banking

Adelaide Business School and the International Centre for Financial Services generate research that impacts on how policy-makers and financial institutions operate. We collaborate with colleagues from a wide range of overseas universities and business schools and our research areas include:

- banking
- funds management
- mergers and acquisitions
- risk management
- payout policies
- corporate financing and investment policies.

YIMENG CHEN

PhD in Business

"The research program provided me with an opportunity to develop new ideas, access a wide variety of resources, and more importantly explore and create new knowledge by collaborating closely with other talented academics. I believe studying at the Adelaide Business School is a rewarding experience for those seeking to make a greater impact through business research."

SUPERVISOR SPOTLIGHT

PROFESSOR RALF ZURBRUEGG

Director of Research, Adelaide Business School

Fields of research

- Asset pricing
- Housing finance
- Corporate finance

Why should students study with the University of Adelaide?

Adelaide offers state-of-the-art facilities, great collegiality and a wonderful learning environment. I encourage anyone with a curious mind to embark on a research degree here. The University has a long track record of producing high-quality doctoral graduates that go on to pursue significant careers.

Why research finance at the University of Adelaide?

Studying finance offers the chance to learn how financial markets operate, and how firms arrive at corporate financing decisions. It offers the opportunity to pursue a career in academia, as well as in the finance sector, as there's strong industry demand for highly qualified individuals.

Projects students may be interested in

- Algorithmic trading in the financial markets
- Robo-advice (the use of artificial intelligence to generate financial advice)
- Are large CEO salaries justified?
- Should a firm use debt or equity financing?
- Are investors rational?

Recent publications

Bai, M, Xu, L,Yu, CFJ & Zurbruegg, R 2020, 'Superstition and stock price crash risk', Pacific-Basin Finance Journal, vol. 60, DOI: 10.1016/j.pacfin.2020.101287.

Cheong, C, Tan, G & Zurbruegg, R 2020, 'Risk-relevant early life experiences and individual trading activity', Finance Research Letters, DOI: 10.1016/j.frl.2020.101569.

Liu, C, Cheong, CS & Zurbruegg, R 2020, 'Rhetoric, reality, and reputation: Do CSR and political lobbying protect shareholder wealth against environmental lawsuits?', Journal of Financial and Quantitative Analysis, vol. 55 (2), pp. 679-706.

Phan, HL & Zurbruegg, R 2020, 'The time-to-maturity pattern of futures price sensitivity to news', Journal of Futures Markets, vol. 40 (1), pp. 126-144.

Jaroenjitrkam, A,Yu, CF & Zurbruegg, R 2019, 'Does market power discipline CEO power? An agency perspective', European Financial Management, DOI: 10.1111/eufm.12240.

Tan, G, Cheong, CS & Zurbruegg, R 2019, 'National culture and individual trading behavior', Journal of Banking & Finance, vol. 106, pp. 357-370.

Business continued

Global Food and Resources

Our Centre for Global Food and Resources delivers innovative interdisciplinary research that addresses economic, policy, agribusiness and social issues affecting global food systems.

Research areas include:

- food, water and environmental policy
- behavioural economics
- food security
- food value chain analysis
- post-harvest science
- the role of agriculture in growth and development.

International Trade

Our Institute for International Trade advances research to support those working in today's global economy, whether they are in business, government or academia. For example, our projects:

- study specific implications of trade agreements and reforms for developing countries
- examine how governments and businesses manage the challenges participating in a complex international trading environment
- discover how modern approaches to customs matters and border controls can accelerate international trade flows.

Management

Adelaide Business School and its Entrepreneurship, Commercialisation and Innovation Centre promote research focused on people and project management.

Examples of broad topics of our research in this area include:

- organisational change
- the human aspects of technology
- models of complex projects and the boundaries between complicated, complex and chaotic.

Marketing

The marketing disciplines engage with industry associations, government departments, not-for-profit organisations, corporate entities, and small/family businesses to address complex marketing and business challenges using the latest methodologies and academic theories. This includes research in areas as diverse as:

- customer engagement
- branding
- digital media
- innovation adoption
- employability
- relationships and networks
- consumer financial decision-making
- service employee behaviours.

Further information or advice

T: +61 8 8313 4755
E: professions@ask.adelaide.edu.au

DR JESMIN ARA RUPA

PhD in Global Food and Resources

"The PhD program at the Centre for Global Food and Resources provided me an enhanced and efficient platform with the opportunity to develop new and innovative ideas, experience practical learning in research and more importantly, prepare myself as an independent researcher.

The faculty members are very supportive in guiding the students to enhance their knowledge and experience in their areas of research interest. For me, it was a rewarding and lifetime experience studying PhD at the Centre for Global Food and Resources."

SUPERVISOR SPOTLIGHT

PROFESSOR WENDY UMBERGER

Executive Director of the Centre for Global Food and Resources (GFAR)

Fields of research

- Innovative behavioural economics methods to understand drivers of consumer and producer behaviour and the implications of changing behaviour for food systems.
- Estimating consumer demand for specific credence (quality, safety, health and ethical) attributes in food and determining efficient governance systems to verify related attributes.
- Implications of urbanisation, modern retail transformation and development programs on food consumption patterns, diet quality and longer-run health and livelihood outcomes in the Australasia region.

Why should students study with University of Adelaide?

Studying a PhD at UoA with the Centre for Global Food and Resources provides an opportunity to work with a dynamic team of researchers with global experience, who work on agribusiness issues, food and resource policy, food security, the economics of food value chains, resource and environmental economics, consumer behaviour and the role of agriculture in growth and development.

We conduct research in Australia, South East Asia, the EU, North America, the Pacific Islands, and Africa. As a result we have strong research partnerships with life scientists, including agricultural, food, health and environmental scientists, as well as with industry, government and NGOs.

Why research agricultural economics at the University of Adelaide?

PhD students at the University of Adelaide get the opportunity to address real-life issues facing our complex global food systems, from food production to consumption.

Our academics have research projects across the globe and there are opportunities for PhD students to be part of these projects in the following places: Australia, South East Asia, the EU, North America, the Pacific Islands, and Africa.

Projects students may be interested in

- Behavioural economics
- Consumer behaviour related to food purchases, nutrition and health
- Food security, including economics of food safety, diet and nutrition transition in less developed and developing countries
- Producer behaviour and drivers of technology adoption
- Food policy
- Translation of research for policy and industry

Recent publications

Kragt, M, Lynch, B, Llewellyn, R & Umberger,W 2019, 'What farmer types are most likely to adopt joint venture farm business structures?', Australian Journal of Agricultural and Resource Economics, vol. 63, pp. 881-896.

Malek, L, Umberger,W & Goddard, E 2019, 'Committed vs uncommitted meat eaters: Understanding willingness to change protein consumption', Appetite, vol. 138, pp. 115-116.

Malek, L, Umberger,W, Huynh, E, Zhou, J & Makrides, M 2019, 'Understanding preferences for dietary supplements and fortified food during pregnancy: A discrete choice experiment', Journal of Food Products Marketing, vol. 25, pp. 500-526.

Malek, L, Umberger,W & Goddard, E 2019, 'Is anti-consumption driving meat consumption changes in Australia?', British Food Journal, vol. 121, pp. 123-138.

Maligalig, R, Demond, M, Umberger,W & Peralta, A 2019, 'Off-farm employment increases women's empowerment: Evidence from rice farms in the Philippines', Journal of Rural Studies, vol. 71, pp. 62-72.

Rupa, J, Umberger,W & Zeng, D 2019, 'Does food market modernisation lead to improved dietary diversity and diet quality for urban Vietnamese households?', Australian Journal of Agricultural and Resource Economics, vol. 59, pp. 1-22.

ECONOMICS

TOP 3 REASONS TO RESEARCH ECONOMICS AT THE UNIVERSITY OF ADELAIDE

1

Rigorous and structured coursework training in preparation for research

2

Collegial and supportive atmosphere, with students, research staff and visitors from across the world

3

Low ratio of postgraduate research students to academic staff across a variety of economic disciplines

The School of Economics provides a high-quality research environment, with extensive opportunity for student-staff interaction.

We have a strong research base across a diverse range of disciplines, including: business cycle and labour macroeconomics; behavioural and experimental analysis; public economics; applied economics in development, trade, health and resources; and applied econometrics.

The school has an exclusive research space for postgraduate students, with a comfortable lounge to promote interaction.

Many of our graduates have gone on to distinguished careers in central banking, the financial sector, higher education, government, and non-profit organisations, such as the IMF and World Bank.

Industry and research partnerships

The School of Economics has partnerships with international researchers in Europe, the United Kingdom, China, India and North America.

Research institute

- **Institute for International Trade**
  www.iit.adelaide.edu.au

Research centre

- **South Australian Centre for Economic Studies**
  www.adelaide.edu.au/saces

Research areas

The School of Economics is committed to research excellence, and has cultivated a strong and diverse research program. Our main areas of focus are:

Macroeconomics

- Monetary policy
- News shocks
- Monetary theory
- Macro labour markets
- Great depressions

Applied econometrics

- Econometric theory
- Financial econometrics
- Panel data
- Time-series econometrics
- Quantile regression

Microeconomics

- Political economy
- Public economics
- Health economics
- Environmental and resource economics
- Industrial organisation
- Design of contracts
- Market design
- Networks
- Behavioural economics and experiments
- Evolutionary dynamics
- Innovation and knowledge economics

Trade and development

- Agricultural and food policy
- Natural resources and development
- Political economy of trade-related policies
- Trade and climate change
- Trade, income inequality and poverty
- Trade theory
- Preferential trade and investment arrangements

Further information or advice

T: +61 8 8313 5540
E: economics@adelaide.edu.au
W: www.economics.adelaide.edu.au

SUPERVISOR SPOTLIGHT

RALPH-CHRISTOPHER BAYER

Professor of Economics and Director of the Adelaide Laboratory for Experimental Economic

Fields of research

- Behavioural game theory
- Experimental economics
- Applied game theory
- Public economics
- Industrial organisation

Awards/grants

- International Olympic Committee Research Grant for the Identification of Optimal Deterrence Policy Settings to Circumvent Doping (with Liam Lenten, Latrobe University), 2018-19
- Australian Research Council Discovery Grant for Information Quality in Auctions of Multiple Objects (with Paul Pezanis-Christou, University of Adelaide), 2014-19
- Australian Research Council Discovery Grant for Effective and Efficient Corporate Tax Enforcement (with Frank Cowell, London School of Economics and Rupert Sausgruber, Vienna University of Economics and Business), 2014-19

Why should students study with the University of Adelaide?

We have a fantastic group of dynamic and (mostly) young researchers in the Adelaide School of Economics, working on very diverse topics. So there are knowledgeable and motivated supervisors who can help students, whatever their specific research interests.

The environment is very collegial and supportive. PhD students are integrated in the school's academic life, which helps them quickly adapt to the requirements of academic research. And most importantly, it makes conducting research fun!

Why research behavioural and experimental economics at Adelaide?

With the Adelaide Laboratory for Experimental Economics, we have the longest tradition in experimental economics in Australia. Experimental and behavioural economics is a very vibrant and valuable research field, which is reflected in the fact that half a dozen Nobel Prizes have been awarded to researchers in the field.

Behavioural and experimental economics also provides very good employment opportunities. Five of my former students hold tenured academic positions in esteemed universities. Two others have taken on teaching positions. And others have found good jobs in the public and private sector, such as in government departments and banks.

Projects students may be interested in

- Designing economic incentives to reduce the incidence of doping in sports
- Efficient and effective measures to enforce corporate taxation
- The impact of emotion and other psychological factors on bidding behaviour in auctions
- The economics of cooperation and conflict
- Social media and social learning, and its impact on economic activity

Recent selected publications

Bayer, R, Hodler, R, Strittmatter, A & Raschky, PA 2020, 'Expropriations, property confiscations and new offshore entities: Evidence from the Panama Papers', Journal of Economic Behavior and Organization, vol. 171, pp. 132-152.

Wu, Q, Bayer, R & Lenten, L 2020, 'Conditional pension funds to combat cheating in sporting contests: Theory and experimental evidence', Journal of Behavioral and Experimental Economics, DOI: 10.1016/j.socec.2020.101537.

Zhang, S & Bayer, R 2018, 'Does suspending an English auction increase revenues?', Economics Letters, vol. 162, pp. 98-100.

Bayer, R & Ke, C 2018, 'What causes rockets and feathers? An experimental investigation', Journal of Economic Behavior and Organization, vol. 153, pp. 223-237.

Bayer, R, Dong, C & Wu, H 2018, 'The impact of the number of sellers on quantal response equilibrium predictions in Bertrand oligopolies', Journal of Economics and Management Strategy.

Lenten, L, Smith, A & Bayer, R 2017, 'Adding conditional superannuation to the antidoping policy mix', Journal of Sport Management, vol. 31(6), pp. 591-604.

LAW

TOP 3 REASONS TO RESEARCH LAW AT THE UNIVERSITY OF ADELAIDE

1

Consistently recognised as above world standard for research excellence in law and legal studies*

2

South Australia's highest ranked law school, awarded a five-star rating for exceptional performance and quality standards^

3

Future-focused and committed to preparing students for careers of tomorrow, equipped to manage the challenges of a changing world LAW

**ERA Outcomes 2018*

^ QS World University Rankings by Subject 2020

The Adelaide Law School was founded in 1883 and is the second oldest law school in Australia.

As part of the University's tradition of excellence, the school takes pride in its reputation as an international leader in legal research. For over 125 years, Adelaide Law School has been home to the leading Australian legal researchers of the day.

The modern Adelaide Law School continues this fine tradition, with leading international and national scholars engaged in legal theory, public and private law, and cutting-edge interdisciplinary research.

The school achieved an Excellence in Research for Australia rating of 4 (performance above world standard) in the Australian Research Council's 2018 research quality and assessment, and was rated as high in research impact and engagement.

Research centres

Our research strengths are demonstrated by the following research centres:

- **Research Unit for the Study of Society, Ethics and the Law**
  www.law.adelaide.edu.au/russel
- **Litigation Law Unit**
  www.law.adelaide.edu.au/llu
- **Public Law and Policy Research Unit**
  www.law.adelaide.edu.au/plpru
- **Regulation of Corporations, Insolvency and Taxation**
  www.law.adelaide.edu.au/rocit
- **Research Unit on Military Law and Ethics**
  www.law.adelaide.edu.au/military-law-ethics
- **South Australian Law Reform Institute**
  www.law.adelaide.edu.au/salri
- **Environmental and Natural Resources Law Research Unit**
  www.law.adelaide.edu.au/enrel
- **Work, Employment and Regulation Research Unit**
  www.law.adelaide.edu.au/wer

Research areas

We are a diverse selection of researchers crossing international, disciplinary and thematic borders. We encourage collaborative, innovative research and provide a supportive and collegial environment for all our researchers.

Our research can be divided into six broad themes:

Commerce, innovation and technology

Commercial courts and arbitration centres are amongst the busiest judicatures, handing down determinations that affect business daily. Some examples of legal notabilia our research covers include:

- intellectual property law
- corporate social responsibility
- technology law and regulation.

DAMIAN ETONE

PhD in Law

"As an international student, what really stood out for me was the well-structured nature of the PhD program, and the various support programs available to researchers. I found the University of Adelaide to be a place where international students can thrive and produce quality research output."

SUPERVISOR SPOTLIGHT

NGAIRE NAFFINE

Bonython Professor of Law

Fellowships and memberships

- Fellow of the Academy of the Social Sciences in Australia
- Fellow of the Australian Academy of Law
- Sometime member of the College of Experts, Australian Research Council

Why I chose to research in my field

I am intensely interested in the way law makes assumptions about the sort of people we are, sometimes quite wrongly, and then establishes rules that match those assumptions. In other words, I'm interested in the concept of legal personality: who and what can bear legal rights and duties.

This concept of the legal person once greatly limited the lives of women (because they were not legal persons they could not hold public office or even vote). The concept has brought into being corporations (they are legal persons, so they can bear rights). And animals have been denied the concept (animals are mainly not legal persons, and are more accurately characterised as property, so they can be bought and sold, cooked and eaten).

Why I like to supervise students

It stretches my mind, and it stretches the minds of the students. It's possible for the student to make great advances in legal thought. This is an extremely exciting thing to do—it's absorbing and preoccupying, highly creative, and can contribute to legal change.

Why research law at the University of Adelaide?

Because we are a progressive law school that encourages free thought and intellectual curiosity. The Adelaide Law School houses a great range of researchers who are conducting highly original research—theoretical, applied, interdisciplinary and comparative.

I've been able to pursue unusual and ambitious research here personally, and the school provides a wonderful place to explore, debate, think and write.

Where my students have gone on to

Many have become distinguished scholars, developing new legal specialities. They have advanced thinking in medical law, the law of identity, and the very nature of the legal academy.

Some of my publications

My previous book, on the nature of the legal person, is *Law's Meaning of Life: Philosophy, Religion, Darwin and the Legal Person* (published by Hart, 2009).

My latest book, *Criminal Law and the Man Problem* (Hart, Bloomsbury, 2019), is on criminal law and the way in which influential legal men throughout history have deployed offences against the person to regulate and license male violence, including sexual violence against women.

Law continued

International affairs

With legal practice becoming increasingly global, our research projects are extending as far as the use of outer space. Areas of particular strength here include:

- public international law
- comparative law
- private international law (also known as 'conflict of laws')
- space law.

Government and citizenship

The identity of the Australian community, operation of government and functioning of its legal system is constantly evolving. Examples of broad topics of our research in this area include:

- local government law
- migration and refugee issues
- the freedom of information.

Society and ethics

Across Adelaide Law School our researchers consider the ethical dimensions of law. Our research in the area is both theoretical and applied, and its span is considerable. It includes:

- the study of fair and compassionate dispute resolution
- ethical ownership
- a principled criminal law
- the nature of Australian legal identity.

Work, health and environment

Our research here responds to the myriad of significant and pressing legal questions arising from the changing nature of work, health and environment. Examples include the:

- increasing global movement of workers through temporary labour migration
- adequacy of laws and regulation for environmental protection in the mining and petroleum industries
- regulatory challenges associated with health law and the increasing influx of disruptive medical technology.

History, theory and education

The Adelaide Law School has a distinguished heritage of research in legal history, theory and education. Continuing this tradition, our leading research projects include collaboration on:

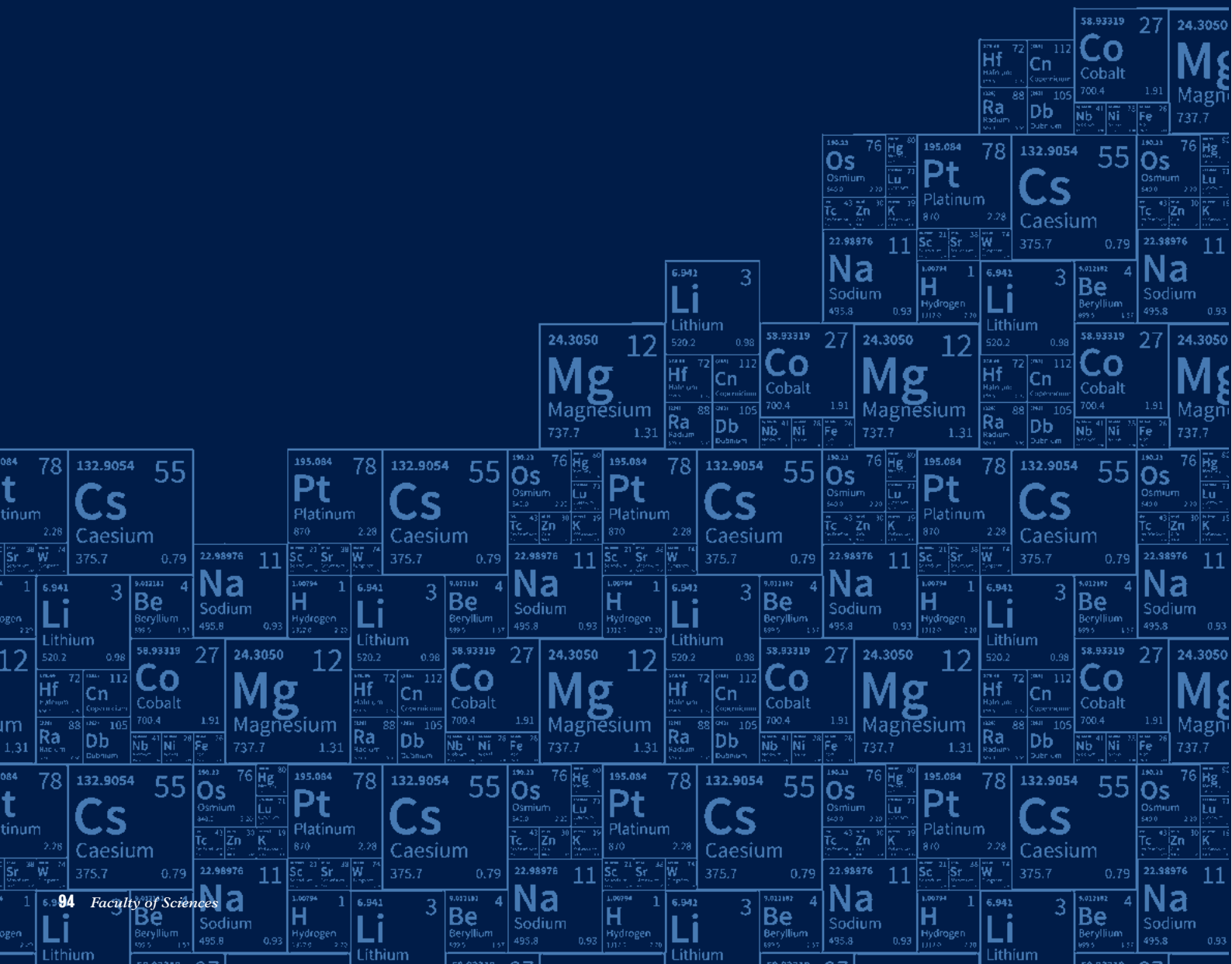
- the Smart Casual project, to produce a suite of professional development modules for sessional teachers of law
- the Partnership for Better Health project, to develop inclusive, sensitive policy and practice for advance care planning
- the Reflective Learning on Workplace Experience project, to investigate millennials' attitudes to privacy and peer disclosure in assessable online reflective journaling.

Further information or advice

To learn more about our areas of research, visit: **www.law.adelaide.edu.au/research**

T: +61 8 8313 5063
E: lawenquiry@adelaide.edu.au
W: www.law.adelaide.edu.au

FACULTY OF SCIENCES



Our world-class research impacts lives and influences policy. It seeks to positively transform the world around us and broaden our understanding of the Universe.

The University of Adelaide has a distinguished history in the field of science, producing a long list of acclaimed researchers—including Nobel Laureates—whose work has had global impact. Today, the University brings together many strands of science, and staff from around the world, to conduct outstanding fundamental and applied research.

We deliver discoveries of international significance, such as our 2018 discovery of a vaccination to tackle a bacteria that kills up to two million children each year globally or our Nobel Prize winning contribution to the discovery of gravitational waves.

The Faculty of Sciences has a global reputation, with 100% of our work in the field rated at, or above, world standard*. We excel in the areas of agriculture; food and wine; animal and veterinary sciences; biological sciences and physical sciences.

Our students join a community of world-class researchers who are discovering answers to some of the biggest questions of our time. They work with academics involved in internationally recognised projects, such as the development of drought-resistant crops and advanced new techniques in gene editing.

Our students have directly helped to tackle environmental challenges, advance technology and even map distant galaxies.

We have close ties with over 70 industry partners, many of whom are co-located on our campuses, along with affiliated researchers and internationally recognised research institutes.

We are also home to 50 specialist research centres. This close proximity to industry and current research offers a unique opportunity for our students to gain practical and theoretical knowledge through collaboration on dynamic national and global research projects.

As well as providing a solid foundation of core science, we're equipping a new generation of scientists with complementary skills in business, enterprise and communication, ensuring our graduates are equipped with the skills they need for an ever changing future. Our teaching is informed by our cutting-edge research. We also encourage students to look beyond conventional science careers to pursue innovative uses of their scientific skills.

* *Excellence in Research for Australia 2018, Australian Research Council*

AGRICULTURE, FOOD AND WINE

TOP 3 REASONS TO RESEARCH AGRICULTURE, FOOD AND WINE AT THE UNIVERSITY OF ADELAIDE

1

A key part of the largest agricultural research precinct in the Southern Hemisphere

2

Access to cutting-edge research facilities and resources

3

Top 40 in the World and #1 in South Australia for agricultural sciences*

The School of Agriculture, Food and Wine has an outstanding reputation for research, with particular strengths in: entomology and plant pathology; farming systems; food and nutrition; plant biology and biochemistry; plant breeding and genetics; soil science; viticulture and horticulture; and grape and wine science.

Based at the Waite campus, the school is co-located with the largest concentration of agricultural research and teaching expertise in the Southern Hemisphere.

Through acclaimed research, teaching expertise and world-class facilities, the school plays a key role in advancing agriculture's rapid growth in the Australian and global economy.

Our students come from all over the world to learn skills that will help solve issues of global food security, food supply, and other critical issues facing the world today. Our research and research training is delivering the agronomists, farmers, plant breeders, food technologists and winemakers of the future.

Industry and research partnerships

The school's research builds on a rich network of collaborations arising from the close co-location of several complementary organisations. This facilitates: co-supervision and industry placements for postgraduate students; joint applications demonstrating critical mass for funding of step-change agricultural research programs; and recruitment of promising graduates to work in industry programs.

For example, the Wine Innovation Cluster (WIC), based at Waite, aims to boost the competitiveness, quality and sustainability of the Australian wine industry through world-class, collaborative, multidisciplinary research and development across the wine value chain.

Research institute

- **Waite Research Institute**
  www.adelaide.edu.au/wri

Research centres

- **The University of Adelaide and Shanghai Jiao Tong University Joint Laboratory for Plant Sciences and Breeding**
  www.sciences.adelaide.edu.au/agriculture-food-wine/research/plant-science/uoa-sjtu-joint-laboratory-for-plant-sciences-and-breeding
- **Joint Research Centre of Grains for Health**
  www.adelaide.edu.au/accgh
- **Fertiliser Technology Research Centre**
  www.sciences.adelaide.edu.au/fertiliser
- **ARC Training Centre for Innovative Wine Production**
  www.arcwinecentre.org.au
- **ARC Research Hub for Wheat in a Hot and Dry Climate**
  www.wheathub.com.au
- **ARC Centre of Excellence in Plant Energy Biology (node)**
  www.plantenergy.uwa.edu.au
- **Adelaide Glycomics**
  www.agwine.adelaide.edu.au/adelaide-glycomics
- **ARC Research Hub for Graphene Enabled Industry Transformation**
  www.arcgrapheneresearchhub.com.au
- **ARC Research Hub for Legumes in Sustainable Agriculture**
  www.legumehub.com

Research areas

School of Agriculture, Food and Wine staff are active across a broad range of fundamental and applied research areas addressing key issues for the agricultural sector. These areas include:

- farming, soil and land systems
- plant breeding, genetics and physiology
- food and nutrition
- horticulture and plant protection
- viticulture and wine science.

To find a supervisor, submit a research proposal or learn more about the University's science research, please visit: **www.sciences.adelaide.edu.au/research**

OLIVIA COUSINS

Joint PhD, University of Adelaide University of Nottingham

"I feel very privileged to be able to spend 4 years split equally between the University of Adelaide and the University of Nottingham. I really like the fact that I get to experience two different countries and two different ways of researching. Both universities have facilities that I can only access at their campuses, such as the Plant Accelerator® at the University of Adelaide's Waite campus."

SUPERVISOR SPOTLIGHT

MATTHEW TUCKER

Associate Professor

Fields of research

- Plant reproduction
- Plant development
- Plant genetics
- Molecular biology
- Microscopy

Awards

- ARC Future Fellowship

Why students should study with University of Adelaide?

The University of Adelaide provides access to an array of world-leading experts in disciplines that are highly relevant to modern day society. Automation, imaging, big data analysis—students at the University are immersed in an environment of concentrated skills and technologies that aim to produce more and healthier food in a changing environment.

This is linked to strategic partnerships with industry and overseas research organisations, providing many possibilities for travel, knowledge exchange and avenues for future employment.

Why research plant development at the University of Adelaide?

The field of plant development provides opportunities to study exciting, fundamental details of cell growth and differentiation, while also linking to real world outcomes such as seed quality and yield. This aligns closely with the research priorities of the South Australian and Australian governments, both of which benefit from a AUD~$12B cereal grain industry.

We are utilising some of the most advanced tools and infrastructure available in plant genetics, microscopy, automated analysis and molecular biology to address fundamental details of plant reproduction and development. Very few organisations can offer this capacity in Australia.

Projects students may be interested in

- The genetic basis for variation in ovule size in barley
- Identification of genes controlling cell identity in the cereal grain
- Specialisation of Argonaute gene function during plant reproduction
- Automated profiling of cell wall composition and RNA accumulation in developing plant tissues

Recent publications

Lim, W. L., Collins, H. M., Byrt, C. S., Lahnstein, J., Shirley, N. J., Aubert, M. K., . . . Burton, R. A. (2020). Overexpression of HvCslF6 in barley grain alters carbohydrate partitioning plus transfer tissue and endosperm development. Journal of experimental botany, 71(1), 138-153.

Würschum, T., Langer, S., Longin, C., Tucker, M., & Leiser, W. (2020). Refining the genetic architecture of flag leaf glaucousness in wheat. Theoretical and Applied Genetics, 11 pages.

Wilkinson, L. G., Yang, X., Burton, R. A., Würschum, T., & Tucker, M. R. (2019). Natural variation in ovule morphology is influenced by multiple tissues and impacts downstream grain development in barley (Hordeum vulgare L.).. Front Plant Sci, 10, 1374.

Lora J, Yang X, Tucker M (2019) Establishing a framework for female germline initiation in the plant ovule. Journal of experimental botany, 70(11), 2937-2949.

Xu D, Qu S, Tucker M, Zhang D, Liang W, Shi J (2019) Ostkpr1 functions in anther cuticle development and pollen wall formation in rice. BMC Plant Biology, 19(1).

Shirley NJ, Aubert MK, Wilkinson LG, Bird DC, Lora J, Yang X, Tucker MR (2019) Translating auxin responses into ovules, seeds and yield: insight from Arabidopsis and the cereals. Journal of Integrative Plant Biology, 61(3), 310-336.

Pinto S, Mendes M, Coimbra S, Tucker M (2019) Revisiting the female germline and its expanding toolbox. Trends in Plant Science, 24(5), 455-467.

** Shanghai Ranking's Global Ranking of Academic Subjects 2019 - Agricultural Sciences*

Postgraduate research contacts

The following School staff can be contacted to assist in postgraduate research matters:

Associate Professor Matthew Denton
E: matthew.denton@adelaide.edu.au

David Hart
E: david.hart@adelaide.edu.au

Further information or advice

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BIOLOGICAL SCIENCES

TOP 3 REASONS TO RESEARCH BIOLOGICAL SCIENCES AT THE UNIVERSITY OF ADELAIDE

1

Large and vibrant postgraduate group, supported by world-class research leaders

2

Cutting-edge research laboratories and facilities, and extensive network of resources

3

Sustained research excellence and funding

The School of Biological Sciences brings together the internationally acclaimed and contemporary disciplines of molecular and cellular biology, and ecology and environmental sciences. We are ranked in the top 150 in the world, and best in South Australia for biological sciences.*

We host a large, vibrant group of postgraduate students, and prepare them for an exciting and diverse range of careers. Our world-class scientists work with a wide range of experimental and natural systems to deliver impact for biological, environmental and health outcomes, attracting more than AUD $13 million in research funding annually.

We have extensive networks with government agencies and industry organisations to ensure our research has both national relevance and global impact.

** QS World University Rankings by subject 2020.*

Industry and research partnerships

The School of Biological Sciences has an extensive partnership network of government, non-government, and private sector organisations, from small start-ups to large multinational pharmaceutical companies. Utilising a multidisciplinary approach, the school's research delivers the knowledge, understanding and technologies needed by end-users in the biomedical, biological and environmental sectors.

Research institutes

- **Environment Institute**
  www.adelaide.edu.au/environment

Research centres

- **ARC Centre of Excellence for Australian Biodiversity and Heritage (Adelaide node)**
  www.epicaustralia.org.au
- **Australian Centre for Ancient DNA**
  www.adelaide.edu.au/acad
- **Australian Centre for Antimicrobial Resistance Ecology (ACARE)**
  www.sciences.adelaide.edu.au/acare
- **Australian Centre for Evolutionary Biology and Biodiversity**
  www.adelaide.edu.au/environment/acebb
- **Australia-China Joint Research Centre of Grains for Health**
  www.adelaide.edu.au/accgh
- **Research Centre for Infectious Diseases**
  www.biological.adelaide.edu.au/rcid
- **Sprigg Geobiology Centre**
  www.adelaide.edu.au/environment/sgc
- **Water Research Centre**
  www.adelaide.edu.au/environment/wrc
- **Zhendong Australia-China Centre for Molecular Traditional Chinese Medicine**
  www.sciences.adelaide.edu.au/biological-sciences/research/molecular-biomedical-science

Research facilities

- **Adelaide Proteomics Centre**
  www.biological.adelaide.edu.au/proteomics
- **Unmanned Research Aircraft Facility (URAF)**
  www.adelaide.edu.au/environment/uraf

Research areas

Our school's research spans two broad areas. These are:

- developing biomedical approaches for major health conditions, such as cancer, neurological disorders, genetic, bacterial and viral diseases
- understanding the past, present and future for plants, animals and ecosystems to better manage marine, freshwater, and terrestrial environments.

Postgraduate research contacts

The following School staff can be contacted to assist in postgraduate research matters.

Associate Professor Keith Shearwin
E: keith.shearwin@adelaide.edu.au

Jennifer Peters
E: jennifer.peters@adelaide.edu.au

Further information or advice

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E: biolsciences@adelaide.edu.au
W: www.biological.adelaide.edu.au

THAKSAON KITTIPASSORN

MD Bachelor of Science (Honours) PhD candidate

"I have had an opportunity to learn new advanced molecular biology techniques, including Seahorse metabolic analysis and CRISPR/Cas9 genome editing. Undertaking a Higher Degree by Research at the University of Adelaide has helped develop my skills both as a scientist and a teacher, and prepared me for my future academic and research career back home."

SUPERVISOR SPOTLIGHT

DAN PEET

Associate Professor

Fields of research

- Cellular oxygen sensing
- Hypoxic gene regulation
- Retinal metabolism

Why students should study with University of Adelaide?

The University of Adelaide has an international reputation for high quality research across a broad range of areas. We have state of the art facilities, a great collegial atmosphere, and strong collaborations nationally and internationally.

Many of our graduates can be found working in laboratories around the world. Adelaide is also a great city to live in, being small, very friendly and more affordable.

Why research hypoxic signaling at the University of Adelaide?

It's a very exciting and relevant area of research. We have been successfully researching oxygen sensing and gene regulation for more than 20 years at the University of Adelaide, including collaborating with laboratories working in directly related areas.

The research breadth spans from in vitro assays with purified proteins through to in vivo experiments. Our research is routinely published in high impact international peer-reviewed journals and our graduates have taken up research positions in high profile research institutes in the USA, Europe and around the world.

Projects students may be interested in

- How the oxygen sensor FIH controls metabolism
- The role of the HIF transcription factors in Multiple Myeloma
- Regulation of cancer-like metabolism in the retina

Recent publications

Hampton-Smith R, Davenport B, Nagarajan Y, Peet D (2019) The conservation and functionality of the oxygen-sensing enzyme Factor Inhibiting HIF (FIH) in non-vertebrates. PLoS ONE, 14(4), e0216134.

Kittipassorn T, Haydinger C, Wood J, Mammone T, Casson R, Peet, D (2019) RNA sequencing data of cultured primary rat Müller cells, the spontaneously immortalized rat Müller cell line, SIRMu-1, and the SV40-transformed rat Müller cell line, rMC-1. Data in Brief, 23.

Kittipassorn T, Haydinger C, Wood J, Mammone T, Casson R, Peet D (2019) Characterization of the novel spontaneously immortalized rat Müller cell line SIRMu-1. Experimental Eye Research, 181, 127-135.

Sim J, Cowburn A, Palazon A, Madhu B, Tyrakis P, Macias D, Bargiela D, Pietsch S, Gralla M, Evans C, Kittipassorn T, Chey Y, Branco C, Rundqvist H, Peet D, Johnson R (2018) The FIH (Factor Inhibiting HIF) asparaginyl hydroxylase regulates oxidative metabolism and accelerates metabolic adaptation to hypoxia. Cell Metabolism, 27(4), 898-913.

Nagarajan Y, Rychkov G, Peet D (2017) Modulation of TRP channel activity by hydroxylation and its therapeutic potential. Pharmaceuticals, 10(2), 35.

Vandyke K, Zeissig M, Hewett D, Martin S, Mrozik K, Cheong C, Diamond P, To L, Gronthos S, Peet D, Croucher P, Zannettino A (2017) HIF-2α promotes dissemination of plasma cells in multiple myeloma by regulating CXCL12/CXCR4 and CCR1. Cancer Research, 77(20), 5452-5463.

ANIMAL AND VETERINARY SCIENCES

TOP 3 REASONS TO RESEARCH ANIMAL AND VETERINARY SCIENCES AT THE UNIVERSITY OF ADELAIDE

1

Ranked in top 50 in world for animal and veterinary sciences^

2

Co-located partners provide real-world research and clinical opportunities

3

Affordable, on-campus student accommodation

NITISH JOAT

Doctor of Philosophy (Veterinary Science)

"The opportunity to study at the University of Adelaide has turned my passion into my profession. It has inspired me to believe in my passion for molecular microbiology and pathology."

The School of Animal and Veterinary Sciences is based at the internationally recognised Roseworthy campus, and has earned a five-star Excellence in Research for Australia ranking for veterinary sciences.* We are ranked in the top 50 in the world for animal and veterinary sciences.^

Our research expertise covers a broad spectrum of animals, including fish, poultry, pigs, sheep, cattle, wildlife, cats, dogs and horses. The school is also home to South Australia's only veterinary school, including its AUD $37 million state-of-the-art veterinary hospital and AUD $10 million equine health centre.

The campus is a vibrant and exciting centre for teaching, postgraduate training and clinical services. With well-established links to many national and international partner organisations and relevant industries, we provide world-class, outcome-based education and training to future animal and veterinary scientists.

Our graduates work all around the world in animal, veterinary and allied industries, government and corporate organisations, or in their own businesses.

** Excellence in Research for Australia 2018, Australian Research Council.*

^ QS World University Rankings by subject 2020.

Industry and research partnerships

The School of Animal and Veterinary Science partners with a wide range of industry, research and clinical organisations. These partnerships help students gain industry knowledge and experience, and will assist in developing professional networks and contacts within their areas of chosen specialisation.

The school shares Roseworthy campus with many partner and allied organisations, and is South Australia's premier research hub for animal and veterinary sciences.

Research centre

- **Australian Centre for Antimicrobial Resistance Ecology (ACARE)**
  www.sciences.adelaide.edu.au/acare
- **Davies Research Centre**
  www.adelaide.edu.au/davies-research-centre

Research areas

- Animal anatomy and physiology
- Animal behaviour
- Biology
- Infectious diseases
- Livestock and equine health
- Pathobiology, public and population health
- Production and companion animal health
- Reproduction and genetics.

To find a supervisor, submit a research proposal or learn more about this area of research, please visit:
www.sciences.adelaide.edu.au/research

Postgraduate research contacts

The following School staff can be contacted to assist in postgraduate research matters:

Professor Gordon Howarth
E: gordon.howarth@adelaide.edu.au

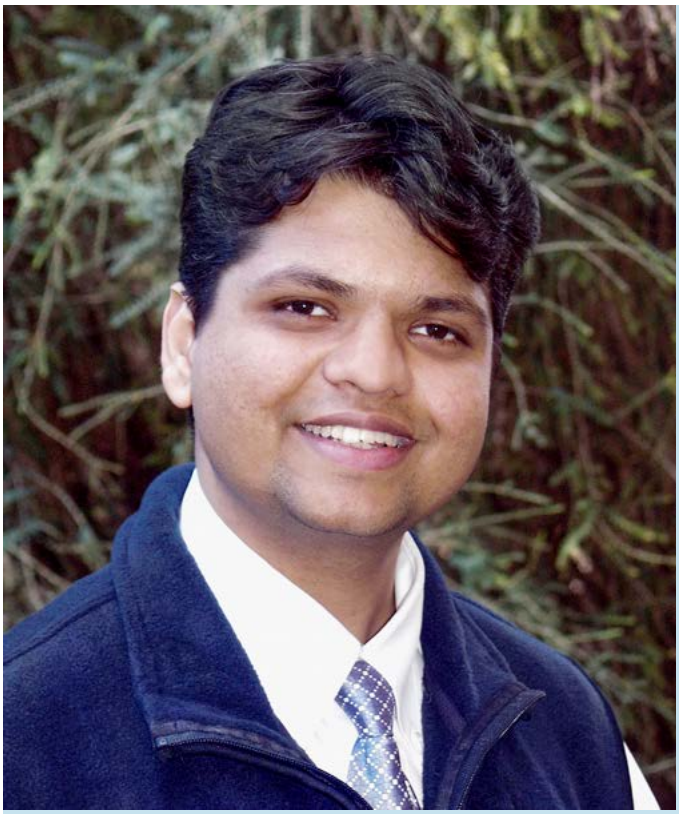
Kiralee Vincent
E: kiralee.vincent@adelaide.edu.au

Further information or advice

School of Animal and Veterinary Sciences
Roseworthy campus
The University of Adelaide
Roseworthy SA 5371 Australia

T: +61 8 8313 7987
E: animalvetsci@adelaide.edu.au
W: www.sciences.adelaide.edu.au/animal-veterinary-sciences/research

SUPERVISOR SPOTLIGHT



KAPIL CHOUSALKAR

Associate Professor

Fields of research

- Food Safety
- Microbiology
- Avian medicine

Awards

- Australian Young Scientist in Agriculture of the Year 2008

Why students should study with University of Adelaide?

The postgraduate research program at the University of Adelaide capitalises on the unique opportunities and environment available at the university.

Animal and Veterinary Science is a recognised area of research strength for the university. It is also a key strategic area for growth and investment by the South Australian Government.

Researchers are highly experienced in the delivery of national and international applied research projects for agri-food industries and regulatory agencies across a range of commodities.

The university has an industry placement program that gives students exposure to current industry practises and guides them with their future career.

Why research food safety and avian medicine at the University of Adelaide?

The School of Animal and Veterinary Sciences offers great opportunities to work with experienced and specialised staff in an interdisciplinary research environment, with brand new facilities. Students can benefit from the established links staff have with regulators and industry and develop a network prior to completion of their studies.

Students who have graduated from my lab are now working in the industry, academia, government research organisations and commercial laboratories.

Projects students may be interested in

- Study of genomics and virulence of Salmonella and Campylobacter spp
- Optimising Interventions (use of probiotics and vaccines) for control of food borne pathogens.

Recent publications

Pandi J, Glatz P, Forder R, Chousalkar K (2019) Effects of Different Papua New Guinea Sweetpotato Varieties on Performance and Level of Enteric Pathogens in Chickens. Animals: an open access journal from MDPI, 9(4).

Barekatain R, Nattrass G, Tilbrook AJ, Chousalkar K, Gilani S (2018) Reduced protein diet and amino acid concentration alter intestinal barrier function and performance of broiler chickens with or without synthetic glucocorticoid. Poultry Science, 98(9), 3662-3675.

Sharma P, Caraguel C, Sexton M, McWhorter A, Underwood G, Holden K, Chousalkar K (2018) Shedding of Salmonella Typhimurium in vaccinated and unvaccinated hens during early lay in field conditions: A randomised controlled trial. BMC Microbiology, 18(1).

Chousalkar K, Gast R, Martelli F, Pande V (2018) Review of egg-related salmonellosis and reduction strategies in United States, Australia, United Kingdom and New Zealand. Critical reviews in microbiology, 44(3), 290-303.

McWhorter A, Phan G, Hocking H, Chousalkar K (2018) In vitro invasion capacity of Salmonella Typhimurium DT9 isolates sourced from humans and layer hen environments. Zoonoses and Public Health, 65(1), e259-e264.

Howard AJ, Chousalkar KK, McWhorter AR (2018) In vitro and in vivo efficacy of a live attenuated Salmonella Typhimurium vaccine at preventing intestinal colonization in chicks. Zoonoses and public health, 65(6), 736-741.

PHYSICAL SCIENCES

TOP 3 REASONS TO RESEARCH PHYSICAL SCIENCES AT THE UNIVERSITY OF ADELAIDE

1

World-leading researchers with a tradition of sustained research excellence and impact

2

Career opportunities in the growth industries of energy, defence, and mining

3

State-of-the-art research facilities and supporting infrastructure

The School of Physical Sciences undertakes world-leading research in the disciplines of:

- Chemistry
- Earth Science
- Physics.

We are ranked number one in South Australia for physical sciences research*, and our postgraduate students play a key role in this work. They have contributed to breakthroughs that have captured international attention, such as the detection of gravitational waves that won the 2017 Nobel Prize for Physics.

Our research, which has the potential to change lives, is attracting significant external funding and involves collaborations with leading international researchers. The school supports this research with a wide range of state-of-the-art equipment, IT and infrastructure.

** Excellence in Research for Australia 2018, Australian Research Council.*

Industry and research partnerships

The School of Physical Sciences has an extensive international network of research, government and private sector partners, spanning industries such as energy, mining, defence and health. By working together with our partners, we're able to deliver fundamental knowledge and technologies that provide applied research solutions and deliver real-world impact and benefit.

Research institutes and centres

- **Environment Institute**
  www.adelaide.edu.au/environment
- **Institute for Mineral and Energy Resources**
  www.adelaide.edu.au/imer
- **Institute for Photonics and Advanced Sensing**
  www.adelaide.edu.au/ipas
- **ARC Centre of Excellence for Nanoscale BioPhotonics (host)**
  www.cnbp.org.au
- **ARC Centre of Excellence for Gravitational Wave Discovery (Adelaide node)**
  www.ozgrav.org
- **ARC Special Research Centre for the Subatomic Structure of Matter**
  www.sciences.adelaide.edu.au/physical-sciences/research/physics-research/cssm
- **ARC Research Hub for Australian Copper-Uranium**
  www.adelaide.edu.au/copper-uranium-research
- **Centre for Energy Technology**
  www.adelaide.edu.au/cet
- **Mawson Geo Centre**
  www.adelaide.edu.au/mawson-geo
- **MinEx Cooperative Research Centre**
  www.minexcrc.com.au
- **Sprigg Geobiology Centre**
  www.adelaide.edu.au/environment/sgc

Research areas

- Chemistry
- Earth science
- Physics

To find a supervisor, submit a research proposal or learn more about our research areas, please visit:
www.sciences.adelaide.edu.au/research

Postgraduate research contacts

The following School staff can be contacted to assist in postgraduate research matters.

Associate Professor Tara Pukala
E: tara.pukala@adelaide.edu.au

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Further information or advice

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SHAGHAYEGH DEZVAREI

PhD Chemistry

"As a PhD student working at the interface of chemistry and biochemistry, the availability of a broad range of equipment enables me to conduct my research projects. The training sessions and workshops with academic and professional staff across the University have helped me to develop my research skills and apply them across my projects. This assured me that I made the right decision to choose the University of Adelaide!"

SUPERVISOR SPOTLIGHT

ROSALIND KING

Associate Professor

Fields of research

- Structural Geology
- Neotectonics
- Geomechanics

Why students should study with University of Adelaide?

The University of Adelaide is a leading Australian university with expertise in a wide range of disciplines. The Higher Degree Research (HDR) program provides students with the ability and confidence to face challenges, and the creativity and innovation to solve them.

Adelaide is ranked in the 10th most liveable city worldwide! It is truly amazing being able to combine your studies at the university with the cosmopolitan lifestyle of white sand beaches, green hills and excellent food and wine.

Why research with the Stress, Structure and Seismic (S3) Group at the University of Adelaide?

The Stress, Structure and Seismic (S3) Group is one of three groups globally that have expertise in geomechanics, and the only one of those three groups to combine geomechanics with structural geology and neotectonics. Students studying with us will gain an in-depth understanding of the mechanics of the earth's subsurface, how it deforms and how it might transmit fluid.

Our HDR students work with high standard industry data sets and software and use innovative field and laboratory techniques. Students graduate with expertise highly sought after by petroleum, mining, geothermal and water resource industries.

Projects students may be interested in

- Fluid flow and permeability of fault zones in sedimentary basins
- Neotectonics of the Eastern Range Front, Flinders Ranges
- Defining the in-situ stress magnitudes across the Australian Stress Map
- Structural evolution of the deepwater Ceduna Delta System

Recent publications

Lubiniecki D,White SR, King R, Holford S, Bunch M, Hill S (2019) Structural evolution of carbonate-hosted cataclastic bands adjacent to a major neotectonic fault, Sellicks Beach, South Australia. Journal of Structural Geology, 126, 11-24.

Debenham N, Farrell NJ, Holford SP, King RC, Healy D (2019). Spatial distribution of micrometre-scale porosity and permeability across the damage zone of a reverse-reactivated normal fault in a tight sandstone: insights from the Otway Basin, SE Australia. Basin Research, 31(3), 640-658.

Hansberry R, Collins A, King R, Morley C, Löhr S (2019) Combining finite strain analysis and illite crystallinity to examine strain variation in a shale detachment zone. Journal of Asian Earth Sciences, 174, 283-293.

Debenham N, King R, Holford S (2018) The influence of a reverse-reactivated normal fault on natural fracture geometries and relative chronologies at Castle Cove, Otway Basin. Journal of Structural Geology, 112, 112-130.

Robson A, Holford S, King R, Kulikowski D (2018) Structural evolution of horst and half-graben structures proximal to a transtensional fault system determined using 3D seismic data from the Shipwreck Trough, offshore Otway Basin, Australia. Marine and Petroleum Geology, 89(3), 615-634.

Dew R, King R, Collins A, Morley C, Arboit F, Glorie S (2018) Stratigraphy of deformed Permian carbonate reefs in Saraburi Province

INTERNATIONAL RESEARCH STUDENT FEES

2021 commencement

The quoted fee is a base fee and may be subject to an annual increase for each subsequent year of the degree.

Information regarding fees and how to access fee increases will be included in successful applicants' Offer of Admission letter.

Faculty/broad discipline	Degree	2021 (per year) AUD
Engineering, Computer and Mathematical Sciences	Doctor of Philosophy in Architecture	$42,000
	Doctor of Philosophy (Engineering)	$46,000
	Doctor of Philosophy (Maths and Computer Science)	$46,000
	Master of Philosophy in Architecture	$42,000
	Master of Philosophy (Engineering)	$46,000
	Master of Philosophy (Maths and Computer Science)	$46,000
Health and Medical Sciences	Doctor of Nursing	$42,000
	Doctor of Philosophy (Dentistry)	$51,000
	Doctor of Philosophy (Medicine)	$51,000
	Doctor of Philosophy (Medicine) - Nursing/Public Health	$46,000
	Doctor of Philosophy (Ophthalmology)	$51,000
	Doctor of Philosophy (Surgery)	$51,000
	Master of Clinical Science	$46,000
	Master of Philosophy (Clinical Science)	$46,000
	Master of Clinical Science (Nursing)	$42,000
	Master of Philosophy (Clinical Science) Nursing	$42,000
	Master of Philosophy (Dentistry)	$51,000
	Master of Philosophy (Medicine)	$51,000
	Master of Philosophy (Ophthalmology)	$51,000
	Master of Philosophy (Public Health)	$46,000
	Master of Philosophy (Surgery)	$51,000
Arts	Doctor of Philosophy (Arts) - Physical Geography/Environmental Studies	$46,000
	Doctor of Philosophy (Arts) - Human Society/Comm&Media St/Lang&Literature/Philosophy/ Political Science	$37,000
	Doctor of Philosophy (Education)	$37.000
	Doctor of Philosophy (Elder Con)	$37.000
	Master of Philosophy (Arts) - Geography/Environmental Studies	$46,000
	Master of Philosophy (Arts) - Human Society/Comm&Media St/Lang&Literature/Philosophy/ Political Science	$37,000
	Master of Philosophy (Education)	$37.000
	Master of Philosophy (Elder Con)	$37.000
Sciences	Doctor of Philosophy (Sciences)	$46,000
	Doctor of Philosophy (Veterinary Science)	$51,000
	Master of Philosophy (Sciences)	$46,000
	Master of Philosophy (Veterinary Science)	$51,000
The Professions	Doctor of Philosophy	$42,000
	Master of Philosophy	$42,000


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HOBART

KAURNA ACKNOWLEDGEMENT

We acknowledge and pay our respects to the Kaurna people, the original custodians of the Adelaide Plains and the land on which the University of Adelaide's campuses at North Terrace, Waite, and Roseworthy are built. We acknowledge the deep feelings of attachment and relationship of the Kaurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs. The University continues to develop respectful and reciprocal relationships with all Indigenous peoples in Australia, and with other Indigenous peoples throughout the world.

FOR FURTHER ENQUIRIES

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