



THE UNIVERSITY
of ADELAIDE

2018 Postgraduate Research Prospectus



International

2018 Postgraduate Research Prospectus

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2018 Postgraduate Research Prospectus

4	Achievements	30	Vibrant city living	54	Computer Science	78	Faculty of the Professions
6	Excellence in Research for Australia (ERA)	32	Life in South Australia	56	Electrical and Electronic Engineering	80	Architecture
8	Research institutes and centres	34	Faculty of Arts	58	Mathematical Sciences	82	Business
12	Research programs and entry requirements	36	Education	60	Mechanical Engineering	86	Economics
14	English language proficiency requirements	38	Humanities	62	Faculty of Health and Medical Sciences	88	Law
16	Scholarships for international students	42	Social Sciences	64	Dentistry	90	Faculty of Sciences
18	Money matters	45	Music	66	Medicine	92	Agriculture, Food and Wine
20	Campuses	46	Faculty of Engineering, Computer and Mathematical Sciences	68	The Robinson Research Institute	93	Animal and Veterinary Sciences
22	Facilities	48	Australian School of Petroleum	70	Nursing	94	Physical Sciences
24	Campus life	50	Chemical Engineering	72	Public Health	96	Biological Sciences
26	Accommodation	52	Civil, Environmental and Mining Engineering	74	The Joanna Briggs Institute	98	Fees
28	Why you will love Adelaide			76	Psychology	98	International representatives



THE UNIVERSITY
of ADELAIDE



Ranked in the
top 1% of
universities
worldwide



Member of the
Group
of Eight*



Associated with
5 Nobel prize
winners



Produced
109 Rhodes
scholars



Produced
137 Fulbright
scholars

* A coalition of Australia's leading research-intensive universities.





Message from the Interim Vice-Chancellor and President

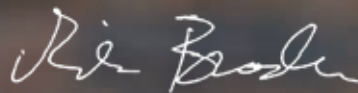
Ranked in the top 1% of universities worldwide, the University of Adelaide makes a major contribution to the wellbeing and prosperity of our community, in Australia and globally.

We are committed to tackling the 'wicked problems', addressing such grand challenges as food security, sustainability of natural resources, clean energy, climate change, and an array of challenges in health and medicine.

By undertaking a research degree at the University of Adelaide you will work at the forefront of discovery in your chosen area. Our strong focus on addressing global challenges, as well as our track record in long-term, basic research, creates a highly stimulating setting for our postgraduate students.

You will have the opportunity to work beside staff who rank among the world's best in their field, in state-of-the-art research facilities, while connecting with other like-minded, ambitious postgraduate students from Australia and abroad. Translation of research and entrepreneurship will be encouraged.

Undertaking postgraduate research at the University of Adelaide is a decision to further your career in a rich environment that pursues excellence, values the freedom to investigate new fields, and inspires graduates to make a positive difference to their community.



Professor Mike Brooks
Interim Vice-Chancellor and President

Achievements

Excellence in Research for Australia (ERA) is an initiative of the Australian Government, which aims to assess research quality using a combination of metrics focussed on researchers, research outputs, research income, esteem and applied measures.

The most recent ERA results, released in December 2015, confirmed many of the University's fundamental research strengths, in areas including geology, ecology, oncology, nutrition, civil engineering, astronomical sciences, macromolecular chemistry, soil sciences and philosophy.

- > 35 research sub-fields (52%) achieved the maximum rating of 5, the second highest proportion in the Go8.
- > 20 research sub-fields (30%) achieved above world standard (4 rating).
- > 11 research sub-fields received a 5 rating across all three ERA rounds (2010, 2012 and 2015).

- > The University was the only institution in Australia to achieve a 5 rating in Paediatrics and Reproductive Health across all three ERA evaluations.
- > 21 out of 22 research areas rated at or above world-class.

One of Australia's top research universities

The University of Adelaide has a vision and commitment to achieve excellence, a sense that the student experience is fundamental, and a belief that research intensity and innovation are key to high-quality teaching. These values have a symbiotic relationship that underpins and characterises the finest universities in the world.

Established in 1874, the University has developed a reputation for excellence in research and is one of the top research universities in Australia. The University of Adelaide'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 2016-2018, *Adelaide Research for Impact* adelaide.edu.au/research/about/strategy/ 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.

It acknowledges that our people are the most critical ingredient for success, and that cultural change and supportive systems are essential. Included in the plan is an account of the University's recent progress, along with challenges and opportunities ahead.

Research strength and expertise

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

For more information on our research, visit: adelaide.edu.au/research/our-research

A global alumni network

Graduates of the University of Adelaide become part of a distinguished alumni community that extends around the world. Internationally, University of Adelaide alumni occupy positions of influence in business, government, academia and the arts.

Some of the University's notable earlier graduates include penicillin pioneer Howard Florey, and the youngest ever recipient of the Nobel Prize for Physics, William Lawrence Bragg. Present-day achievers include: NASA astronaut Dr Andy Thomas; joint winner of the 2005 Nobel Prize for Physiology or Medicine Dr J Robin Warren; The President of Singapore, Dr Tony Tan; the Chairman of the OCBC Bank in Singapore, Dr Cheong Choong Kong.

The University 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.

For more information on our alumni network, visit: adelaide.edu.au/alumni/

5 stars plus QS rating

The QS Intelligence Unit has, through rigorous and independent data collection and analysis of performance metrics as set out in the QS Stars methodology, rated the University of Adelaide as a Five Stars Plus institution.

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



27,000 students



7,000 international students

Areas of study



Science and
Agriculture



Architecture,
Business and Law



Health and
Medical Sciences



Education,
Humanities, Music
and Social Sciences



Engineering, Computer
and Mathematical
Sciences

100 countries represented in student population



Top 7 countries /regions



China



Malaysia



Singapore



Hong Kong



Vietnam



India



Indonesia

Excellence in Research for Australia (ERA)

The results of the 2015 Excellence in Research for Australia (ERA) confirmed our high research quality over a broad range of areas.

The ERA is a Commonwealth Government initiative to assess the research quality at universities across Australia, using a combination of measures on researchers, research outputs, research income, reputation and other measures. The University of Adelaide performed well in most research areas and achieved outstanding results in sciences and health.

Highlights of our 2015 ERA results

82% of the University's research sub-fields were assessed as being above or well above world standard (rating 4 or 5)


67 individual research sub-fields assessed

35 More than half of the University's (35) research areas have been rated by ERA at the highest level, well above world class, the second highest proportion in the Group of Eight

30% were rated above world standard (4 rating)

11 have now received a 5 rating across all three ERA rounds (2010, 2012 and 2015)

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

 For the full results of the ERA process, visit: adelaide.edu.au/research/our-research/excellence/

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.



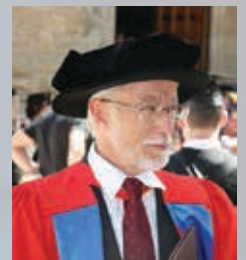
1945

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, who in innumerable guises portrays the surprising involvement of the outsider.



2005

Dr J Robin Warren, Physiology or Medicine (joint), for their discovery of the bacterium *Helicobacter pylori* and its role in gastritis and peptic ulcer disease.



Research institutes and centres

Our five research institutes bring together world-leading researchers supported by modern infrastructure and an innovative culture, to tackle national and international research priorities.

Robinson Research Institute

adelaide.edu.au/robinson-institute

Focusing on the early stages of life to improve the health and wellbeing of children and families over the life course and across generations, the institute 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.

Institute for Mineral and Energy Resources

adelaide.edu.au/imer

The institute focuses on large-scale, interdisciplinary opportunities and challenges in deep resources, deep mining, complex processing, unconventional energy resources, and reliable low-cost and low-emission energy technologies. 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 the minerals and energy resources industries.

The Environment Institute

adelaide.edu.au/environment

The focus of the institute is to develop and implement solutions to improve the health of the environment, our wellbeing and to sustain our economy. Key areas

include uncovering how life has evolved on the Australian landmass, confronting environmental issues around sourcing and supply of clean water, and working to ensure the environment can thrive amidst the pressures of society.

The Institute for Photonics and Advanced Sensing (IPAS)

adelaide.edu.au/ipas

IPAS brings together physicists, chemists and biologists to pursue a transdisciplinary approach to science. Researchers are developing 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

adelaide.edu.au/wri

The Waite Research Institute brings together researchers with a focus on plant and crop sciences, soil science, viticulture and oenology, food and nutrition, and food chain economics. The institute aims to enhance the position of the University as Australia's foremost agricultural research institution and address key issues such as global food security and agricultural sustainability. In addition, the University has approximately 50 research centres across the spectrum of its research strengths.

 For more information visit: adelaide.edu.au/research/our-research/structure



Research programs and entry requirements

The completion of a higher degree by research (HDR) at the University of Adelaide will provide students with the skills and experience to undertake a range of rewarding career opportunities.

Employers recognise that Adelaide graduates' research ability and broad range of transferable skills which equip them well for challenging and diverse roles in industry, government and business, as well as in research and academic organisations. Choosing the right degree is an important decision and one that will be influenced by career plans, personal circumstances and prior qualifications. We recommend students discuss their options with the relevant school.

A brief outline of available research degrees follows on page 12. The admission requirements for each of these degrees are set out in the relevant set of academic program rules. However, an overview of these requirements and other important information is provided in the *Research Student Handbook*, available at: adelaide.edu.au/graduatecentre/handbook/

Entry requirements

HDR admission requirements, please refer to: adelaide.edu.au/graduatecentre/handbook/03-considerations-in-applying/02-entry-requirements/

Selecting a supervisor and applying

Information to help with important decisions such as selecting the right area of research and finding a suitable prospective supervisor, as well as information on application and enrolment procedures, is available at: adelaide.edu.au/graduatecentre/admission

To find a suitable potential supervisor, students will need to contact the appropriate person from the faculty or school relevant to the proposed research area via: adelaide.edu.au/study/postgraduate/research-degrees/areas/

Once contact has been made with a potential supervisor who has expressed interest in supervising their research at the University of Adelaide, students will be encouraged to submit a formal online application to the Adelaide Graduate Centre at: adelaide.edu.au/graduatecentre/admission/apply-now

The application will prompt students to upload relevant supporting documentation, including:

- > evidence of English language proficiency
- > documentation for all completed and/or current studies
- > details of research background
- > a current curriculum vitae, including any research publications
- > a brief research proposal
- > contact details for two academic referees who will be asked to supply confidential reports.

General information for research students is located on the Adelaide Graduate Centre website at: adelaide.edu.au/graduatecentre

Further information for international students can be found on the International website at: adelaide.edu.au/study/international

For information about international postgraduate research scholarships, visit: adelaide.edu.au/graduatecentre/scholarships/research-international/

How to apply

Information about how to apply online for candidature and/or a scholarship can be found in the *Future Students* section of the Adelaide Graduate Centre website: adelaide.edu.au/graduatecentre/future-students/

For a step-by-step guide, including the online application, refer to: adelaide.edu.au/graduatecentre/admission/



Research programs

Doctor of Philosophy

Course duration: 2-4 years full-time

Availability: All faculties

The Doctor of Philosophy (PhD) degree is the basic qualification for a research career or academic position and is a stepping stone to a range of career opportunities.

The PhD involves three to four years of full-time research candidature, with compulsory participation in:

- > The Integrated Bridging Program-Research (IBP-R), a semester-length program designed to help international students gain access quickly and effectively to the academic, linguistic and cultural conventions of postgraduate study at the University of Adelaide. For more information refer to: adelaide.edu.au/graduatecentre/handbook/05-candidature/06-monitoring-academic-progress/03-provisional-candidature/
- > The Career and Research Skills Training (CaRST) program, which requires completion of 120 hours of 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.

A PhD thesis at the University of Adelaide may be prepared in one of the following formats:

1. conventional written narrative presented as typescript
2. publication: a thesis by publication, which may include publications that have been published and/or accepted and/ or submitted for publication and/or unpublished and unsubmitted work within a manuscript style
3. a combination of conventional and publication formats
4. 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 a deep knowledge of the research topic
- > relate the research topic to the broader framework of the discipline within which it falls
- > demonstrate an 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)

PhD programs that are jointly awarded with an international collaborator are also available to University of Adelaide international research students. The University is working closely with a number of key international partners for the joint award of HDR degrees, including those universities listed below:

Partner university	Fields of research
University of Freiberg (Germany)	Cancer and related biology
Shanghai Jiao Tong University (China)	Plant biosciences
University of Nagoya (Japan)	Medicine, medical sciences and biomedical engineering
University of Nottingham (UK)	Chemistry, plant biosciences, nutrition and food science

It is very important that students carefully read the conditions specified in the particular joint agreement before committing to the program; some joint agreements have special conditions attached, which are additional to the standard University of Adelaide requirements. The conditions of the joint agreement will be forwarded to students with the Offer of Admission to the program.

The list of partner universities above is not exclusive, and joint awards may be negotiated on an individual basis.

A jointly awarded agreement between the University of Adelaide and a French university is known as a Cotutelle Agreement. Further information about the French Cotutelle scheme is available from the French Embassy in Australia and at ambafrance-au.org/-Cotutelle,154

A jointly awarded PhD program provides a mechanism to:

- > enhance two-way international research collaboration
- > facilitate international study and experience for PhD students
- > work in two countries and have access to the latest research equipment
- > access new funding sources
- > develop 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 are already enrolled in a PhD in 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 the Pro Vice-Chancellor (Research Operations) following review of the information in Appendix 4 of the *Research Student Handbook*: adelaide.edu.au/graduatecentre/handbook/11-appendices/

Professional Doctorate

Course duration: 2-4 years full-time

Availability: Education and Nursing

The University 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 practitioners in the field.

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

Master of Philosophy

Course duration: 1-2 years full-time

Availability: All faculties

Stream: Mixed coursework (33%) and research (67%) or 100% research where exemption from all core IBP-R courses is approved

The Master of Philosophy is offered in every faculty as the primary research master degree available to prospective research students.

Master of Philosophy students are trained in research methodology and techniques and are engaged in the critical evaluation of literature and results in the substantive area of the thesis at an advanced level. Participation in the Career and Research Skills Training (CaRST) program, which requires completion of 60 hours of activities prior to thesis submission, is compulsory.

International students will normally be required to undertake the mixed research and coursework stream of the program, which includes completion of the following core Integrated Bridging Program-Research (IBP-R) courses taught by Professional and Continuing Education (PCE):

- > Research Processes (3)
- > Research Design (3)
- > Research Communication (3).

Exemptions from individual core courses may be granted following diagnostic testing by PCE at the start of the degree. Where exemptions are granted, students will be required to undertake additional discipline specific coursework in order to bring the total up to the required 15 units for completion of a mixed research and coursework Master of Philosophy program.

Elective coursework units may be selected from among relevant master-by-coursework or honours courses approved by the school.

Students who are granted an exemption from all three core IBP-R courses, may elect to undertake the Master of Philosophy by 100% research if desired. Participation in the full or negotiated IBP-R program may still be required. 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 evaluate critically these results
- > presented a clear and well written thesis.

Master of Clinical Science

Course duration: 1-2 years full-time

Availability: Faculty of Health and Medical Sciences

Streams: Mixed coursework (33%) and research (67%); 100% research

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, unless exempted, international students are required to undertake the mixed research and coursework stream of the program and to complete the core IBP-R courses taught by Professional and Continuing Education (PCE), together with discipline-specific electives to the total value of 15 units.

The objectives of the Master of Clinical Science program are 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

As English is the language of instruction at the University of Adelaide, proficiency in speaking, reading, writing and listening to English is essential.

International applicants who have studied in a degree program at the University of Adelaide for at least one full-time year in the last two years, or two full-time years in the last five years, are deemed to have met the English language proficiency requirements.

International applicants may submit the results of a suitable English language test which has been undertaken within two years of the date of application. The University's preferred accredited English language tests are:

> IELTS (International English Language Testing System): Academic test

- > TOEFL: Internet-based and paper-based
- > Pearson Test of English: Academic
- > Cambridge English: Advanced (CAE)

International students whose English skills are just below the required standard may be eligible for entry into an intensive English language program, the Academic English-PEP pathway, which they will need to complete at the required level before being admitted to the University of Adelaide.

The University can arrange an appropriate English language program in Adelaide at the English Language Centre.

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: adelaide.edu.au/elc

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. This includes students who intend to sit an English test. Applicants who wish to be considered for a scholarship are not permitted to undertake the PEP as a way to meet English language requirements.

i For more information visit:
adelaide.edu.au/graduatecentre/handbook/03-considerations-in-applying/02-entry-requirements/03-english-language/

Minimum English language proficiency entry criteria

For postgraduate research students commencing in 2018

Postgraduate research program	IELTS (Academic) minimum scores	TOEFL minimum scores	Pearson Test of English (Academic) minimum scores	Cambridge English: Advanced (CAE) minimum score
General requirements				
Applicable to all postgraduate research programs in: Faculty of Engineering, Computer and Mathematical Sciences Faculty of Sciences Faculty of the Professions School of Economics and Global Food Studies Faculty of Health and Medical Sciences Including Joanna Briggs Institute but excluding Nursing, Psychology and Public Health	Overall band score of 6.5 AND Minimum band scores 6.5 in writing and speaking AND 6.0 in listening and reading	Paper-based – total score of 575 with 4.5 in the TWE (Test of Written English) OR Internet-based – total score of 79 with 24 in writing AND 22 in speaking AND 13 in listening and reading	Overall score 65 AND Skills profile writing and speaking 65 listening and reading 58	Overall score 176 AND Individual scores 176 in writing and speaking AND 169 in listening and reading
Specific requirements				
Applicable to all postgraduate research programs in: Faculty of Health and Medical Sciences Nursing, Psychology and Public Health (excluding Joanna Briggs Institute) Faculty of Arts Faculty of the Professions (except for the School of Economics and Global Food Studies)	Overall band score of 7.0 AND Minimum band scores 7.0 in writing and speaking AND 6.5 in listening and reading	Paper-based – total score of 600 with 5.0 in the TWE (Test of Written English) OR Internet-based – total score of 94 with 27 in writing AND 23 in speaking AND 20 in listening and reading	Overall score 73 AND Skills profile writing and speaking 73 listening and reading 65	Overall score 185 AND Individual scores 185 in writing and speaking AND 176 listening and reading

PEP pathways for higher degree by research programs

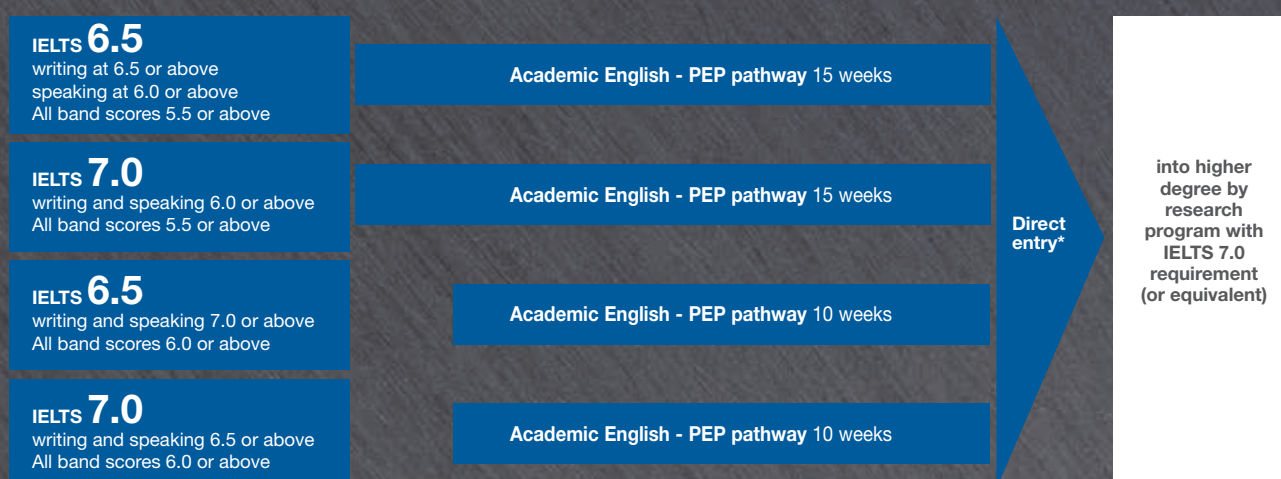
IELTS 6.5 (minimum requirement of IELTS (or equivalent) overall band score 6.5)



Academic English - PEP pathway: Students who achieve an IELTS (or equivalent) overall band score of 6.0 with writing and speaking at 6.0 or above and no band score less than 5.0 are eligible for an Academic English - PEP pathway program. The length of the PEP pathway program depends upon the English language proficiency test score.

* Once successfully completed, the Academic English—PEP pathway provides direct entry and students do not need to sit another English language test before entering the University program. For more information, including Academic English—PEP pathway dates and fees, visit: adelaide.edu.au/elc/courses/pathways/hdr6.5.html

IELTS 7.0 (minimum requirement of IELTS (or equivalent) overall band score 7.0)



Academic English - PEP pathway: Students who achieve an IELTS (or equivalent) overall band score of 6.5 with writing at 6.5 or above, speaking at 6.0 or above and no band score less than 5.5 are eligible for an Academic English - PEP pathway program. The length of the PEP pathway program depends upon the English proficiency test score and the English language proficiency level required for entry into the higher degree by research program.

* Once successfully completed, the Academic English—PEP pathway provides direct entry and students do not need to sit another English language proficiency test before entering the University program. For more information, including Academic English—PEP pathway dates and fees, visit: adelaide.edu.au/elc/courses/pathways/hdr7.0.html



Scholarships for international students

The University of Adelaide offers several scholarship schemes for international students undertaking postgraduate research study in 2018.

Each year the University of Adelaide offers a number of scholarships to international students commencing postgraduate research. For more information on scholarships and how to apply, visit: adelaide.edu.au/graduatecentre/scholarships/research-international/

Applicants will be shortlisted and considered for international research scholarships when all eligibility criteria are met. Please refer to the website for the most up-to-date information: adelaide.edu.au/graduatecentre/scholarships/research-international/eligibility/

Selection for scholarships is extremely competitive. Recent successful applicants for research scholarships have usually completed a research masters or a coursework masters with a substantial research component, outstanding academic performance at an internationally recognised university, publications in internationally refereed journals, and 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

University of Adelaide scholarship rounds

adelaide.edu.au/graduatecentre/admission/application-rounds/international/

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

Research Training Program Scholarships - International (RTP)

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

Research Training Program Scholarships are one of the primary sources of support for international students at the University of Adelaide and are funded by the Australian Government through the Department of Education and Training.

RTP awards are available to outstanding international applicants from any country who have an Australian honours result or equivalent and are allocated within the first two scholarship rounds, according to the terms and conditions specified in the University's Scholarship Policy, namely, on the basis of academic merit and designated areas of research strength within the University: adelaide.edu.au/research/our-research/capabilities/

Adelaide Scholarships International (ASI)

adelaide.edu.au/graduatecentre/scholarships/research-international/opportunities/adelaide-scholarship-international/

Adelaide Scholarships International 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. ASI are awarded on academic merit and research potential and are allocated within three scholarship rounds.

Beacon of Enlightenment PhD Scholarships

adelaide.edu.au/graduatecentre/scholarships/research-international/beacon-scholarships/

The University of Adelaide's strategic plan, *The Beacon of Enlightenment* 2013-2023, outlines an initiative to double the number of scholarships available to International doctoral students. Unlike our existing international higher degree by research scholarships, which are open to the wider international community, these scholarships will target the University's international partner institutions.

The University reserves the right to offer these scholarships by invitation, but applicants who wish to be considered should apply through the normal international application process.

Adelaide Graduate Research Scholarships (AGRS)

adelaide.edu.au/graduatecentre/scholarships/research-international/opportunities/

At the end of each semester the University of Adelaide offers a number of Adelaide Graduate Research Scholarships exclusively to recent international University of Adelaide graduates to continue their education via a masters or doctorate degree by research.

Full Fee Scholarships (by nomination only)

adelaide.edu.au/graduatecentre/scholarships/research-international/opportunities/full-fee-scholarships/

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

Full fee scholarships will ONLY be allocated to international students who have been previously awarded a stipend by the host school, faculty, or research institute. Full fee scholarships will not be awarded to individual privately sponsored students nor will they be granted to students supported by stipends provided to a sole individual without a formal agreement between the University and the sponsor. This requirement shall not apply 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 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

adelaide.edu.au/graduatecentre/scholarships/research-international/china-scholarship/

The China Scholarship Council (CSC) and The University of Adelaide are jointly offering postgraduate research scholarships to students from the People's Republic of China to undertake a postgraduate research degree at the University of Adelaide.

The University of Adelaide will waive full tuition fees for selected students and the CSC will consider the applications of these students for a living allowance as prescribed from time to time by the Chinese Government, a return airfare to Australia by the most economical route, and visa application fees.

Scholarships under this program will be up to four years, 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 the quality of candidates.

External scholarship opportunities

Endeavour Postgraduate Awards (for international applicants)

internationaleducation.gov.au/Endeavour%20program/Scholarships-and-Fellowships/Pages/default.aspx

The Endeavour Awards comprise the Australian Government's internationally competitive, merit-based scholarship program, providing opportunities to undertake study, research and professional development in Australia.

The Endeavour Awards aim to:

- > develop ongoing educational, research and professional linkages between individuals, organisations and countries
- > increase the skills and global awareness of high-achieving individuals from Australia and overseas
- > contribute to Australia's position as a high quality provider of education and training and a leader in research and innovation
- > increase the productivity of Australians through international study, research or professional development experience.

Information and application instructions are on the Endeavour Awards website.

Australia Awards Scholarships (AAS)

australiaawards.gov.au/Pages/default.aspx

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


Australia Awards Scholarships cover tuition fees, living costs, airfares and other expenses.

Applications for Australia Awards Scholarships must be made directly to the AAS office in the 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

 For more information visit:
adelaide.edu.au/graduatecentre/scholarships/research-international/opportunities/

Money matters

International applicants need to consider a range of financial issues, including the cost of living, health insurance and tuition fees, before applying to the University.

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 \$270 for University-managed accommodation within the city centre or AUD \$385 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, which are dependent on the program of enrolment and cover the cost of teaching, as well as many student support services.

The annual tuition fee quoted in this prospectus is based on the standard full-time enrolment load of 24 units per year or 12 units per semester. The quoted fee is a base fee that may be subject to a discretionary annual increase for each of the subsequent years in the program. Each student will be advised of their appropriate fee schedule in the 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. The University invoices students (or their sponsor) each enrolment period according to the enrolment load.

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 policy on refunds and adjustments before accepting an offer of admission to the University of Adelaide. The policy complies with all of the requirements for tuition fee refunds stipulated in the Education Services for Overseas Students (ESOS Act 2000), associated Australian Government regulations, and the ESOS National Code of Practice (2007). Policy details can be viewed at: adelaide.edu.au/student/finance/refunds/

Health and medical

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

The Department of Immigration and Border Protection requires all student visa holders to have OSHC for the duration of their visa. For additional information, please refer to: international.adelaide.edu.au/student-support/visas/healthoshc

Based on 2017 premiums, 12 months of OSHC Essentials cover is AUD \$609 for a single student. A dual family policy is AUD \$2,375, and a multi-family policy is

AUD \$3,438. OSHC covers up to 100% of the scheduled fee for most medical services and 100% of the scheduled fees in hospitals and emergency ambulance. Students may consider taking out additional insurance for extras such as dental work, physiotherapy and optometry. Refer to allianzassistancehealth.com.au/en/student-visa-oshc/cover/ for a copy of the Allianz Global Assistance Essentials Cover Policy Document.

Students with families

Students who bring their families with them to Australia will need to take into account additional costs associated with health cover, housing, food, transport, childcare and education expenses.

For information and advice for international students with families, visit international.adelaide.edu.au/student-support and enter 'family' in the 'Find what you're looking for' search box.

School fees for dependants of international students

School attendance is compulsory for all children aged six to 15, with most children starting school at five years of age. Children may attend government-operated schools or independent schools.

All schooling services attract a fee. At the time of printing, the fees for government-operated schools were AUD \$4,700 per year for primary school (from Reception to Year 7) and AUD \$5,600 per year for secondary school (from Years 8 to 12). These fees include intensive English language development and support if required.

A registration fee is charged per family. This is currently AUD \$600 in the first year and AUD \$300 in subsequent years.

International research students (PhD and master by research) in receipt of a South Australian government-endorsed scholarship for tuition fees (including scholarships from public universities and statutory bodies and multilateral agencies) are eligible for a waiver of tuition and administration fees for their children's public schooling.

For details visit internationalstudents.sa.edu.au and select 'Children of International Tertiary Students' from the menu.

Part-time work

Many international students and their dependants hope to obtain part-time work to supplement funds for living costs. It may be possible to secure employment; however, we advise that students should not rely on part-time work for essential expenses, as obtaining a job is not guaranteed and can take time.

Students should also be aware that the workload for many programs is intense and students may not have the time to hold employment as well as study full-time.

Under current visa regulations students have the right to work after studies in Australia have commenced. The Department of Immigration allows 500 visa holders who are undertaking a Master degree by research or a doctoral degree to work unlimited hours once their higher degree by research program has started. However, regardless of the work rights attached to the student visa, it is important to note that international students are expected to study full-time (~37 hours per week). Students will need to ensure that any work commitments do not interfere with the progress of their research and ability to complete the degree within the required timeframe; consequently, no more than eight hours of work during the week is recommended.

Scholarship holders should note there is no limit on the amount they can earn for employment not directly related to their research, but if the employment is directly related to research in any way then the maximum earnings allowed will be up to 75% of the value of the major scholarship award. Scholarship holders who are interested in undertaking employment (paid or voluntary) within the time and earning restrictions should seek advice from the Adelaide Graduate Centre before commencing work.

The Australian Government imposes certain restrictions on the employment of dependants or spouses of people holding student visas. For more information on working while studying, visit border.gov.au/Trav/Stud/More then select 'Work conditions for student visa holders' from the menu.

Study-related costs

This should be viewed as a guide only for a single student. 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)	\$9,000
Overseas Student Health Cover**	\$609–\$3,438
Economy air travel	\$1,200–\$2,000
Visa application charge	\$550
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
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 connection	\$59–\$299
Furniture and household goods	\$1,000+

Average weekly living expenses*

Expense	Cost (AUD)
Accommodation	\$135–\$385
Groceries	\$90–\$130
Gas/electricity	\$35–\$55
Transport (student concession rates)	\$20–\$35
Telephone/postage	\$20–\$40
Other (e.g. clothing, entertainment)	\$50+
Total weekly expenses	\$350–\$695

* Source: Study Adelaide

** The Department of Immigration 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 program. This fee is based on a 12-month duration.

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

Campuses

The University of Adelaide has three campuses in South Australia. Campuses are located at: North Terrace, Roseworthy and Waite.



For more information on our campuses, visit: adelaide.edu.au/campuses

North Terrace campus

The University's main campus on North Terrace is renowned for its historic architecture and lively atmosphere. Located within Adelaide's central business and shopping district, the campus is adjacent to the State Library, Festival Centre, South Australian Museum, Art Gallery of South Australia, Adelaide Zoo, and Botanic Gardens. The North Terrace campus is a five-minute walk from the closest tram and bus stops and a 10-minute walk from Adelaide train station.





Waite campus

The Waite campus is eight kilometres south of the city centre and features a 'super' greenhouse known as the Plant Accelerator. Other research areas include plant biotechnology, plant breeding, sustainable agriculture, wine, horticulture and land management. Waite's students have access to facilities such as a field trials plot, vineyard, winery, orchard and arboretum, and campus services include a childcare centre, gym and sporting facilities. Access to the campus is via public transport and a Waite-North Terrace shuttle bus service.



Roseworthy campus

Roseworthy is a 1600-hectare campus in a rural setting 55 kilometres north of Adelaide and 10 kilometres from the town of Gawler (population 19,000). Renowned as Australia's first agricultural teaching and research centre, the campus specialises in dry-land agriculture, animal science and is the first veterinary science school in South Australia. Roseworthy services include student accommodation, swimming pool and fitness centre, and access to the campus is available via a North Terrace-Roseworthy shuttle bus service.

Facilities

In recent years, the University has invested over \$500 million in a major capital works program, delivering a suite of world-class facilities and infrastructure.

Students have access to modern lecture theatres, new technologies, and an outstanding library with a comprehensive collection of over two million items.

The Braggs

The Braggs is a \$100-million facility on the North Terrace campus named after Nobel Prize winning alumni Sir William Henry and Sir William Lawrence Bragg. The Braggs building has more than 10,000 square metres of research and teaching facilities and is the location of the world-leading Institute for Photonics and Advanced Sensing.

Dental Simulation Clinic

The Dental Simulation Clinic at North Terrace is a \$6-million high-tech clinic providing dentistry and oral health students with access to the best training facilities in Australia.

Ingkarni Wardli

The \$100-million Ingkarni Wardli building on the North Terrace campus is home to the Faculty of Engineering, Computer and Mathematical Sciences. The facility was awarded Australia's first 6 Star Green Star rating for an education building. Ingkarni Wardli takes an Indigenous Kurna name meaning 'place of learning or enquiry'.

Veterinary Health Centres

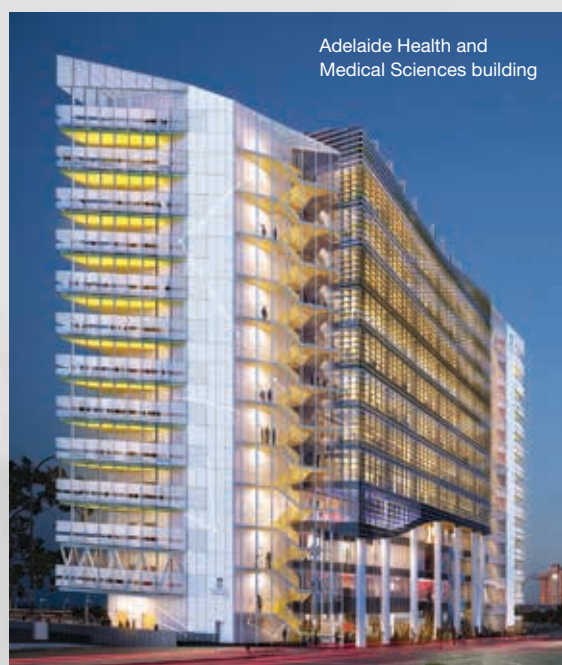
Located at Roseworthy campus, the \$37-million Veterinary Health Centre offers first-class integrated teaching and research spaces, a fully operational veterinary clinic, hospital and Companion Animal Health Centre. Facilities include intensive care, a diagnostic pathology laboratory, ultrasound, radiology and surgical theatres.

Hub Central

This three-level, \$42-million building on North Terrace campus brings together learning and social spaces with student services. Hub Central was designed through a co-creation process that involved over 12,000 hours of combined student and staff consultation.

The Adelaide Health and Medical Sciences (AHMS) building

Located in the SA Health and Biomedical precinct, the AHMS building is home to over 1,600 students and more than 600 health researchers. The brand new, \$246 million 14-storey building offers state-of-the-art facilities that harness the most advanced teaching methods, simulators and latest technology.



Faculties *and* schools

Faculty of Arts

Elder Conservatorium of Music
School of Humanities*
School of Social Sciences**
School of Education

Faculty of Engineering, Computer and Mathematical Sciences

Australian School of Petroleum
School of Chemical Engineering
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

Faculty of Health and Medical Sciences

Adelaide Dental School
Adelaide Medical School
Adelaide Nursing School
School of Public Health
School of Psychology

Faculty of the Professions

Adelaide Business School#
Adelaide Law School
School of Architecture and Built Environment
School of Economics

Faculty of Sciences

School of Agriculture, Food and Wine
School of Animal and Veterinary Sciences
School of Biological Sciences
School of Physical Sciences

* Includes the disciplines of: Art History, Classics, Archaeology and Ancient History, English and Creative Writing, French Studies, German Studies, History, Linguistics, Media, Philosophy and Spanish Studies.

** Includes the disciplines of: Anthropology, Criminology, International Development, Asian Studies, Geography, Environment and Population, Gender Studies, Politics and International Studies, Sociology.

includes Entrepreneurship, Commercialisation and Innovation Centre (ECIC) and the Centre for Global Food and Resources

Campus life

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

Life on campus

Adelaide University Union

auu.org.au

The Adelaide University Union (AUU) is the peak student organisation at the University. The AUU aims to develop and implement the philosophy that life at university is so much more than textbooks and lectures. This philosophy is applied through a fantastic range of programs, services, activities and events that combine to make student life a rewarding, supportive and memorable experience.

The AUU delivers and/or funds services such as an employment service, VolunteerConnect, a membership program offering discounts and benefits, a wide range of campus events, advocacy, education and welfare, The Fitness Hub, O'Week, social clubs, student radio, free tax and legal service, *On Dit* (student publication), the Student Representative Council, and retail services such as The General, the University's on-campus convenience store.

Student services

Student Care

auu.org.au

The Education and Welfare Officers (EWOs) at the Student Care office provide vital, confidential assistance and support to students experiencing any problems surrounding the complexities of student life.

The EWOs are the first point of contact for:

- > academic advice and advocacy
- > accommodation advice
- > legal issues
- > financial assistance (grants, loans, some scholarships)
- > taxation advice
- > welfare information and advice
- > information about, and referral to, other services.

The EWOs have an understanding of University culture, systems and policy, plus experience dealing with external agencies (e.g. Residential Tenancies Tribunal, welfare and rights bodies, utilities providers).

Employment

auu.org.au/employment

The Employment Service is a professional employment agency offering free advice and information to students looking for work. The online jobs board lists casual, part-time and contract work exclusively for University of Adelaide students. Students can also make an appointment to confidentially discuss any employment-related matter.

A comprehensive training calendar is also provided, offering both accredited and non-accredited training to students, either free or at heavily discounted prices.

Volunteering

auu.org.au

The Union's volunteering program aims to connect students to volunteering opportunities with not-for-profit organisations. Students can also register for on-campus volunteering opportunities if they are interested in being involved in AUU events. Volunteering helps students develop on-the-job skills, build their resumes, and create valuable networks, and provides the opportunity to practise speaking English and make new friends.

Special-interest and social clubs

auu.org.au/clubs

For a university student, how time is spent outside the classroom is just as important as how time is spent in lectures, tutorials and practicals. Students have the opportunity to fine-tune their leadership skills, network with potential employers, master language skills, or simply hang out, socialise with other students, or disengage from formal studies for a while by getting involved in a student club or society.

There are more than 100 different non-sporting clubs and societies active on campus. These range from faculty student societies to religious, cultural and political, and activity-based clubs, and if students can't find what they're looking for, they can easily start their own.



Student media

On Dit

auu.org.au/ondit

The student newspaper *On Dit* (pronounced 'on dee') was established in 1932 and continues to provide a lively forum for student news and views. Editors are elected each year, and are joined by a large group of students who contribute articles, sub-edit, proofread, and help with distribution.

Sporting clubs and facilities

Adelaide University Sport

adelaide.edu.au/sports/

Adelaide University Sport (AU Sport) gives students access to an extensive range of sporting facilities and clubs. Catering for everyone from elite athletes through to social players, AU Sport exists to provide and promote the best possible sporting and recreational environment for the University community.

There are almost 40 sports to choose from, ranging from bushwalking and rowing to water, field and indoor sports.

AU Sport hosts Australia's largest university snow trip and also organises teams for Australian University Sport events, including the Australian University Games (AUG),

Southern University Games and Australian University Championships (snow sports, distance running, rowing, triathlon, surfing and orienteering). Visit unisport.com.au for information on how to get involved.

While many sporting clubs enjoy their own permanent facilities, students also have access to the University's extensive playing fields and well-maintained grounds.

Sporting equipment and occasional ground hire is available via the AU Sport office.

The Fitness Hub

thefitnesshub.com.au

The Fitness Hub provides the ultimate health and fitness solution. The on-campus gym has discounted rates and extended opening hours, injecting fitness, fun and friendship into university life.

The Fitness Hub delivers the latest in fitness and resistance equipment, including treadmills, cross trainers, bikes and rowers. The pinloaded machines and free weights are suitable for all gym users from beginners to expert lifters.

Various popular classes such as yoga, Zumba and spin are also held.

Qualified gym instructors are always on-hand to provide expert fitness advice and free program consultations for new members.

StudyAdelaide

studyadelaide.com

Facebook: [Facebook.com/studyadelaide](https://www.facebook.com/studyadelaide)

Twitter: @studyadelaide

Instagram: @studyadelaide

StudyAdelaide provides information and support to students before they arrive in Adelaide and once they settle into life in their new home.

A busy schedule of events and activities is offered each year, and includes everything from welcome and farewell ceremonies, international student awards and career advancement seminars, through to social events such as sports days, wine education functions and regional trips.

Head to studyadelaide.com to find out more about these events and activities, and follow us on Facebook, Twitter and Instagram for photos, news, information, ticket giveaways and competitions.



Accommodation

The University understands that accommodation plays an important part in building a solid foundation for academic success.



Specialist
accommodation
service and support



Database
for students looking
for rental properties



**University-managed
accommodation**
15 minute walk from campus

University of Adelaide students benefit from the advantages that come from choosing to study in a city where accommodation of all types, including university-managed accommodation, is not only accessible but more affordable than in other Australian cities.

The University recommends that 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 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

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 the University's student accommodation properties and is home to over 400 students. Students living at the village experience the safety and security of having access to University staff on-site, 24 hours a day, seven days a week. All students need to bring are 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.

Long-term student accommodation options

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

Accommodation types	Accommodation options	Student profile
University residential environments	University-managed student accommodation Residential colleges	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 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 is the most suitable accommodation option.

It is easier for an individual student to initially travel to Adelaide on their own in order to arrange suitable permanent family accommodation. Spouses and children who arrive later can then move directly into permanent accommodation without requiring temporary arrangements.

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 and arrival reception and temporary accommodation services, please contact:

Accommodation Service

The University of Adelaide
Level 4 Hub Central
SA 5005 Australia

Opening hours: Mon to Fri, 9 am to 5 pm

Telephone: +61 8 8313 5220

Fax: +61 8 8313 3338

Email: accommodation@adelaide.edu.au

Web: adelaide.edu.au/accommodation

Skype: uoaaccommodation

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

Residential colleges

Five residential colleges are affiliated with the University: Aquinas, Lincoln, St Ann's and St Mark's colleges, which are primarily for undergraduate students, and Kathleen Lumley College, which is suited to postgraduate and mature-age students. These colleges are situated in North Adelaide, within easy walking distance of the main North Terrace campus. A residential college is also located at Roseworthy, one hour's drive north of the city, for students whose study is based at the Roseworthy campus.

Most college rooms are single study bedrooms. All colleges are co-educational, with shared bathrooms. The colleges generally provide three meals per day—no individual cooking facilities are available.

Commercial student accommodation

Commercial student accommodation refers to purpose-built student accommodation facilities, situated off-campus and managed by private management companies. These facilities offer fully-furnished, self-contained apartments that provide students with the flexibility to live alone or share with others in a student community. Some room types in commercial student accommodation are offered specifically to 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 agreement.

It is important to note these facilities are not directly affiliated with the University of Adelaide and students are advised to inspect them before securing accommodation in a commercial student accommodation facility.

Private rental and share accommodation

The University of Adelaide Accommodation Service understands that affordable (share) accommodation can be found in the private rental market, which is why the University offers a rental database (adelaide.edu.au/accommodation) for the exclusive use of University of Adelaide students.

The rental database can be accessed from the Accommodation Service, Level 4, Hub Central, North Terrace campus by enrolled students of the University of Adelaide with a user name and password. The database is only promoted within the University community, which means most of the listings are being offered by people who are affiliated with the University and would like to share their room/property with a University of Adelaide student.

Students who want 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 Accommodation Service for information on all available options, access to the rental database and support during the process of identifying and securing quality share or rental accommodation.

Students are discouraged from sending money from offshore to secure share or rental accommodation without having had the opportunity to inspect accommodation first.

Why you will love Adelaide

With all the advantages of a major city but few of the inconveniences, Adelaide offers an enviable lifestyle in an environment that is ideal for study.

Precision planning

Adelaide is situated between rolling hills to the east and 22 kilometres of white sandy beaches to the west. When Colonel Light founded Adelaide in 1836, he had a simple plan: a one-square-mile city centre and lots of open green space. He laid out the streets in a grid, surrounded by a ring of what are now state heritage-listed parklands.

Australia's most affordable mainland city

Recent research by the National Centre for Social and Economic Modelling shows Adelaide is one of the most affordable mainland cities in Australia. Adelaide's relatively low cost of living makes it an ideal choice for those who want to enjoy a city life on a budget. The cost of living in Adelaide is up to 19% less than Sydney and Melbourne and 4% less than Perth and Brisbane.

A truly liveable city

Adelaide is a safe and relaxed place to live. In The Economist Intelligence Unit's 2016 Liveability Survey, Adelaide was ranked as the 5th most liveable city in the world.

Culturally diverse

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



Thriving industry

The state of South Australia boasts a stable economy and a low unemployment rate, with a broad base of thriving industries, including agriculture, wine, information and communications technology, defence, biosciences, health, tourism and the arts. Adelaide offers an enviable lifestyle in an environment that is ideal for study.

i Being an international student in Adelaide:
studyadelaide.com

Tourism and holidays in South Australia:
southaustralia.com

Doing business in South Australia:
southaustralia.biz

Fast facts



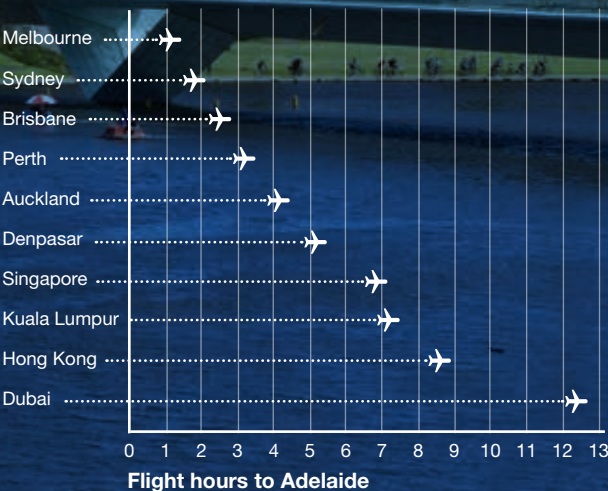
- Area** 985,335km²
- Capital** Adelaide
- Coastline** 4,800km (with over 100 islands)
- Population** Adelaide: 1.3m South Australia: 1.7m
- Official language** English
- Currency** Australian dollar (AUD)
- Economy** Major industries include bioscience, defence, minerals and energy, and wine.

Climate

Season	Months	Conditions	Temperature
Summer	December - February	Mainly hot/dry	25°C - 35°C
Autumn	March - May	Mainly dry	20°C - 25°C
Winter	June - August	Cool and wet	10°C - 15°C
Spring	September - November	Some rain	20°C - 25°C

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

Flight duration to Adelaide



Vibrant city living

Adelaide is a great city for international students.

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



For more information on South Australia, visit: southaustralia.com



Shopping


Adelaide boasts a range of shopping experiences comparable to anywhere in Australia. Rundle Mall has the biggest concentration of department and chain stores, while Rundle Street is known for its trendy boutiques, pubs and cafés.



Live centrally

Student accommodation is more affordable in Adelaide than in other cities in Australia and much of it is in the heart of the city, meaning plenty of students 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 busy and vibrant city, but unlike some larger cities getting around is quick and easy. The city is easy to navigate, thanks to its broad boulevards and public transit network of buses, trains and trams, which offer the same discounts for international students as for local students.



Hit the beach

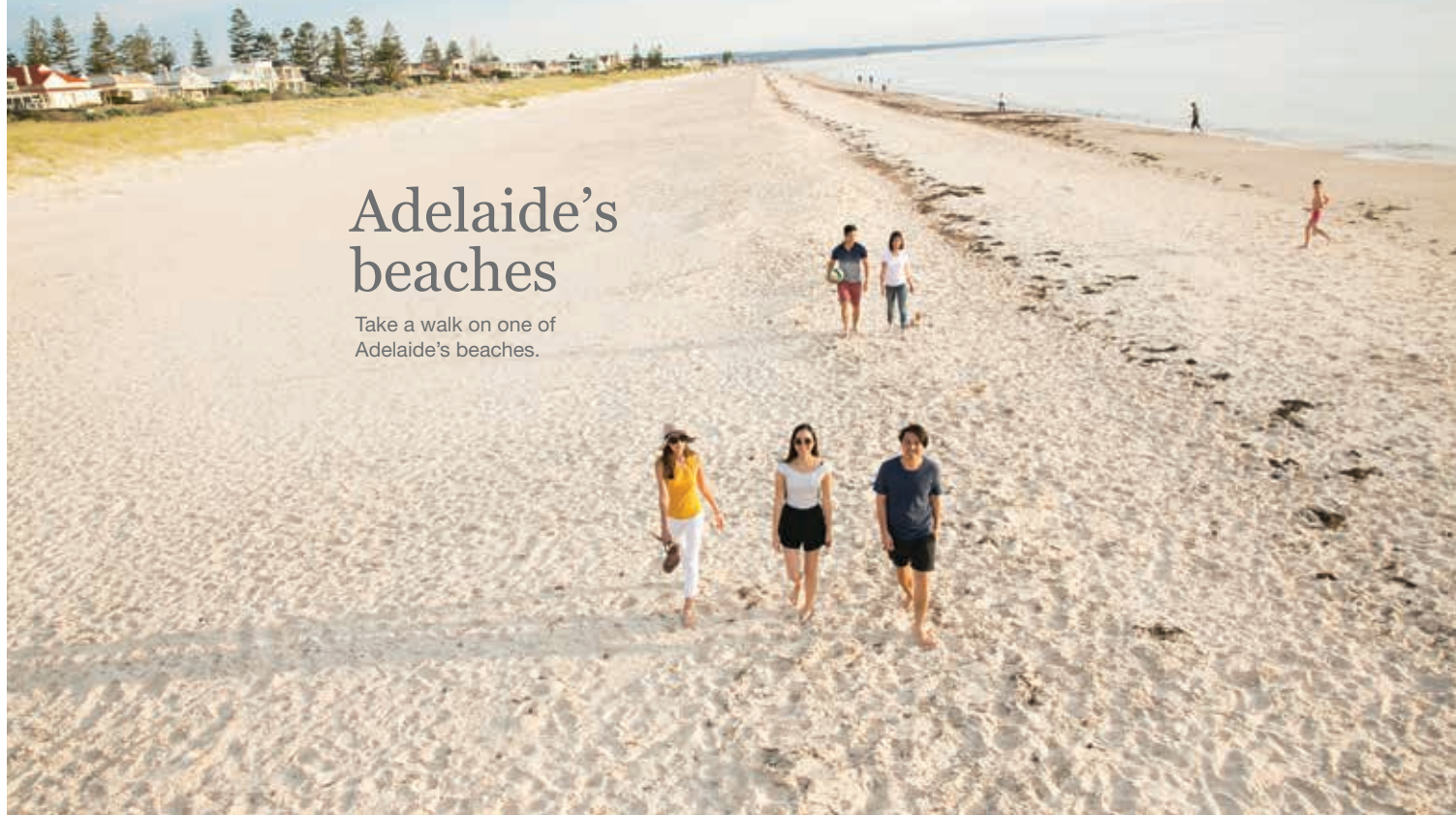
Adelaide is a coastal city where pristine white sandy beaches become the focus of relaxation and recreation in the summer. It takes just 20 minutes on the tram to get from the city centre to the beach.

Life in South Australia

 southaustralia.com

Adelaide's beaches

Take a walk on one of Adelaide's beaches.



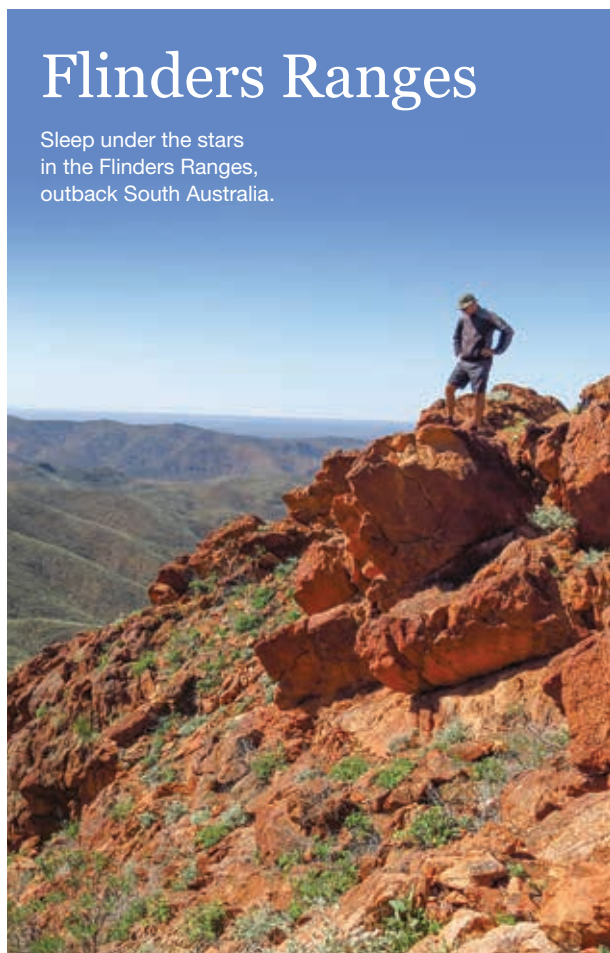
Native animals

Experience native animals at Cleland Wildlife Park, Adelaide Hills.



Flinders Ranges

Sleep under the stars in the Flinders Ranges, outback South Australia.





Barossa Valley

Visit the Barossa Valley, one of Australia's premier food and wine regions.

Festival state

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 each year.

 festivalsadelaide.com.au

JAN	<ul style="list-style-type: none">• Tour Down Under• World Tennis Challenge• Crush; Adelaide Hills food and wine festival• Australian Open Water Swimming Championships	SEP	<ul style="list-style-type: none">• Royal Adelaide Show• City to Bay Fun Run• Australian University Games
FEB	<ul style="list-style-type: none">• Adelaide Festival• Adelaide Fringe Festival	OCT	<ul style="list-style-type: none">• OzAsia Festival• Adelaide Film Festival• Festival of Ideas
MAR	<ul style="list-style-type: none">• WOMAdelaide• Clipsal 500 V8 Supercar Championship	NOV	<ul style="list-style-type: none">• Adelaide International 3-day Equestrian Event• Australian Short Course Swimming Championships• Rescue 2018, Lifesaving World Championships
APR	<ul style="list-style-type: none">• Oakbank Racing Carnival• Barossa Vintage Festival	DEC	<ul style="list-style-type: none">• Moonlight Cinema• Lights of Lobethal; Adelaide Hills Christmas light display
JUN	<ul style="list-style-type: none">• Adelaide Cabaret Festival		



Faculty of Arts

Nerina Dunt

PhD Art History

“As a PhD candidate, the University of Adelaide provides a wonderful environment to conduct research. I am supported with resources, services and a community of academics and peers across a range of disciplines within the Faculty of Arts.”



The Faculty of Arts has an impressive research reputation across a wide range of fields, organised in four schools. 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, and includes components focused on career preparation. Postgraduate arts students learn in an environment that fosters excellence, provides access to unique support services and encourages creativity.

Research areas

Research undertaken by the faculty is independently ranked by the Excellence in Research for Australia (ERA) initiative. In 2015, our research was ranked in ERA as above, or well above world standard in:

- > anthropology
- > demography
- > historical studies
- > human geography
- > literary studies
- > performing arts and creative writing
- > philosophy
- > political science
- > sociology

Other areas of strength include:

- > gender studies
- > media
- > revival linguistics and endangered languages.

Research centres

The faculty's commitment to fostering excellent and ground-breaking research and research training is evident in the following research centres housed within the faculty:

- > ARC 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.

Executive Dean

Professor Jennie Shaw

Associate Dean (Research)

Professor Rachel A Ankeny

Director of Graduate Studies

Associate Professor Natalie Edwards

E: arts@adelaide.edu.au

W: arts.adelaide.edu.au

Education

Reasons to conduct research in Education at the University of Adelaide

- 1 Strong nexus between research, teaching and learning
- 2 Research engagement based on national priorities and international trends
- 3 Dedicated to research that values knowledge generation, critical thinking and community building for current and future generations of learners

The School of Education has a history of over 120 years of educational research and teacher education in South Australia. We have particular research strengths in higher education, teacher education and research training, and provide innovative learning experiences for students and professional teachers, trainers and educational consultants who are developing their expertise in this national priority area. Our staff contribute to knowledge building in the local and international community across a diverse range of expertise, including: curriculum development, learning and assessment, educational psychology, Indigenous studies, higher education, training, development and leadership, workplace learning, online learning pedagogy and assessment, ESL and language teaching, and cultural diversity.

Research areas

School staff have a wide range of interests and are able to supervise postgraduate students in the areas outlined below.

- > Measurement and evaluation
- > Curriculum, teaching and learning
- > History of education
- > Languages education
- > Science and mathematics education
- > Education, technology and culture
- > Educational psychology
- > Higher education scholarship
- > Education for sustainability
- > Social, cultural and historical context of education
- > Education and cultural diversity (multiculturalism, antiracism, reconciliation and gender).

Further information or advice

To find a supervisor, submit a research proposal or learn more about this area of research, visit:

education.adelaide.edu.au/research

T: +61 8 8313 0488

E: education@adelaide.edu.au

W: education.adelaide.edu.au



“With a supportive supervisory team and helpful staff, conducting doctoral research at the University of Adelaide is an enriching experience. The doctoral program has helped me grow professionally and given me an opportunity to engage with multicultural research communities.”

Ardian Wahyu Setiawan
Doctor of Education



Humanities

Reasons to conduct research in Humanities at the University of Adelaide

- 1 Being supervised by enthusiastic, high profile and award-winning researchers
- 2 Joining a stimulating intellectual environment
- 3 Working at the cutting edge of research practice
- 4 Undertaking research that enriches human life
- 5 Meeting like-minded students from around the world

The School of Humanities is comprised of a number of departments and has specialised researchers and supervisors in each of them. Research topics can be pursued in the departments of Art History, Classics, English and Creative Writing, History, Philosophy, Linguistics, Media, French Studies, German Studies, Spanish and the interdisciplinary area of European Studies.

Supervision across departments may be possible depending on topic of interest.

Research centre

J.M. Coetzee Centre for Creative Practice (co-directed with Elder Conservatorium of Music)
adelaide.edu.au/jmcoetzeecentre

Art History

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

Staff in the Department of Art History conduct research and supervise in a range of fields in art history and museology.

Research areas

- > Early modern art, society and culture (1500-1800)
- > Northern renaissance
- > Portraiture and image-making
- > Art censorship
- > Contemporary art, including digital and virtual
- > Artists' letters
- > Art, war and representation
- > Gender and art
- > Australian art - all areas
- > Australian Indigenous art
- > Art history and exhibitions
- > Curatorship and museology.

Classics

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

Staff in the Department of Classics have a wide range of interests and are able to supervise postgraduate students in the areas outlined below.

Research areas

- > Greek and Roman philosophical thought, including the history of science and medicine
- > Roman imperial history, especially of late antiquity
- > Roman archaeology, especially of the eastern provinces
- > Greek literature
- > Latin literature and language, especially Roman elegiac and epic poetry and late Roman/early Christian poetry
- > The emotions in Greek and Roman thought and literature
- > Pain narratives in Greco/Roman literature.

English and Creative Writing

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

Staff in the Discipline of English and Creative Writing conduct research and supervise in a broad range of areas.

Research areas

Creative Writing

- > Fiction
- > Poetry
- > The short story
- > Creative non-fiction
- > Digital writing and writing for cross-media contexts
- > Life writing
- > Autobiography and biography
- > Memoir
- > Fictocriticism
- > Ecopoetics
- > Literary translation
- > Transcultural writing
- > Creative practice
- > Publishing.

English and literary studies

- > Cultural studies, including popular culture, music, film, television and dance
- > Australian literature and culture
- > Indigenous literatures
- > American literature and film
- > Pacific literature and culture
- > Victorian literature and society
- > Romantic literature
- > Contemporary literature
- > Modernism and postmodernism
- > Postcolonialism



“The University’s Department of English and Creative Writing offers an unpretentious, collegiate atmosphere enhanced by a diverse range of research interests and projects and the wonderful resource of the Barr Smith Library. Adelaide has an impressive arts calendar, including the world-class Writers Week every year, so as a writer and postgrad I enjoy a perfect combination of inspiration, community and quiet space and time to think, work and study.”

Helen Dinmore PhD, Creative Writing

Dr Katie Barclay

History and Politics



Fields of research

- > Gender history
- > History of emotions
- > Marriage and family life
- > Scottish and Irish history
- > Feminist theory
- > Subjectivity and selfhood
- > Singing.

Awards

- > Discovery Early Career Research Award
- > 2012 Senior Hume-Brown Prize for Scottish History, for first monograph *Love, Intimacy and Power*
- > 2012 Women's History Network Book Prize, for first monograph, *Love, Intimacy and Power*

Students I have recently supervised:

- > Jo Hocking, who works on women's political power at the Elizabethan court
- > Jade Riddle, whose dissertation is on emotions and the urban environment
- > Stephanie Shing-Kelly, who is working on a history of female patronage in sixteenth-century England.

I chose to research in my field because:

People's identity in the past and today is rooted in their families and upbringings. Our families' shape, for better or worse, much of who we become, impacting on our chances of success, our emotional well-being and our outlook on life.

Understanding how people's 'selves' are made in this context provides real insight into human behaviour that can be applied to many different situations - realising that families change and are the products of their historical and cultural circumstances gives us hope that we can change the present.

My favourite part of being a supervisor is:

Watching someone grapple with a new problem and being able to be a part of that exploration, offering a guiding hand or advice where necessary and participating in the excitement, and the pains, of creating new knowledge.

What makes a successful supervisor and student partnership?

Good communication, listening that goes both ways and speaking with each other regularly.

Why research economic, social and cultural history at the University of Adelaide?

With an established centre for the history of emotions, you have the opportunity to be at the forefront of a new field of research and to work with the top people in the world in this area. This gives you access to the latest ideas and methodologies, as well as a core of people with whom to work and share ideas.

Projects you may be interested in:

- > history of Scottish family
- > children and institutional care
- > the 'quantified self' and changing economies
- > senses and emotion in daily life

Recent publications

1. Katie Barclay, 'Emotions, the Law and the Press in Britain: Seduction and Breach of Promise Suits, 1780-1830', *Journal of Eighteenth-Century Studies* 39(2) (2016), 267-8
2. Katie Barclay 'Illicit Intimacies: the Many Families of Gilbert Innes of Stow (1751-1832)', *Gender and History*, 27(3) (2015)576-90
3. Katie Barclay 'Sounds of Sedition: Music and Emotion in Ireland, 1780-1845', *Cultural History*, 3 (1) (2014)54-80; Katie Barclay 'Singing and Lower-Class Masculinity in the Dublin Magistrate's Court, 1800-1845', *Journal of Social History*, 47(3) (2014)746-68.
4. Katie Barclay 'Farmwives, Domesticity and Work in Late-Nineteenth-Century Ireland', *Rural History*, 24(2) (2013)143-60

“ With an established centre for the history of emotions, you have the opportunity to be at the forefront of a new field of research and to work with the top people in the world in this area. This gives you access to the latest ideas and methodologies, as well as a core of people with whom to work and share ideas. ”

- > Gender studies
- > Genre studies, including prose fiction, drama, the short story, poetry and autobiography
- > South African literature
- > Early modern English drama and literary theory
- > Tragedy literary imitation.

French Studies

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

Staff in the Department of French Studies conduct research and supervise in a number of different periods and areas of French cultural production, from contemporary French society to the literature and social history of the 18th and 19th centuries:

Research areas

- > Author studies
- > Contemporary French society
- > Francophone studies
- > French cinema
- > French crime fiction
- > French literature (from the 18th century to the present)
- > French poetry
- > History of French exploration in the Pacific (in particular the Baudin expedition)
- > History of ideas in the 19th century
- > Literature and politics (from the 19th century to the present)
- > Romanticism, surrealism, existentialism, poststructuralism, autobiography
- > French and francophone women's writing
- > 20th century continental philosophy.

German Studies

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

Staff in Department of German Studies conduct research and can supervise in a number of different periods and areas of German language and culture.

Research areas

- > Modern mannerism in literature, film and fine arts
- > Comparative literature and aesthetics
- > The arts/science interface
- > Relations between German and European literatures
- > 18th century philosophy and literature
- > West German education system
- > 18th and 19th century German women writers
- > German-Australian connections in the 19th century
- > Postcolonial and intercultural approaches to German Studies
- > East German literature
- > 19th century musical life and German national identity
- > 20th century German children's literature.

History

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

Staff in the Department of History can supervise research across a range of periods, locales and themes.

Research areas

- > History of emotions, particularly in Europe 1100-1800
- > European history: medieval and early modern religion, politics and society, social and cultural history of 16th-20th centuries, French history, Russian and Eastern European history
- > British history: legal history, the English revolution, politics and society, gender, medieval Britain
- > History of migration, particularly to Australia and the European diaspora
- > History of science, technology and medicine, and health policy
- > 20th century history: international terrorism, nationalism, genocide, World Wars I and II
- > History of the family and gender.

Linguistics

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

Research in the Department of Linguistics covers descriptive and functional approaches and methodologies.

Research areas

- > 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: language documentation, language planning, language change, language preservation, language reclamation
- > Language contact: pidgin and creole linguistics



“What I like most about being a postgraduate student at the University of Adelaide is that being here offers me the opportunity to do the research I always wanted to do. With support from supervisors, you get a lot of freedom to shape your own research project, which for me combines feminist philosophy with animal and postcolonial studies. Next to this, the international culture of the University offers us the chance to meet people from all over the world who all work on interesting research projects themselves, broadening not only our knowledge on our own projects but about many topics.”

Yvette Wijnandts Postgraduate by research (Ph.D.) in the History department

- > Systemic Functional Linguistics (SFL) and its applications to the domains of:
 - education: language and literacy learning, language and literacy teaching, child language development
 - health: medical communication, mental health communication
 - sport: media representations, coaching communication
 - discourse analysis and critical discourse analysis
 - multimodality: still image, moving image, sound.

Media

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

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

Research areas

- > Digital media and innovation
- > Creative cities, praxis and industries
- > Community news media
- > Cybernationalism
- > Design and innovation management
- > Digital storytelling and persona studies
- > E-democracy, e-government, citizen engagement
- > Film theory and practice
- > Mobile informatics (art, heritage)
- > Mobile technologies and practices
- > Online games and social media practices
- > Public journalism

- > Surveillance and data collection
- > Transnational media and diaspora
- > User-experience design.

Philosophy

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

Staff in the Department Philosophy are active researchers and supervisors in a variety of areas.

Research areas

- > Aesthetics
- > Cognitive science, including models of cognition, theories of perception, and cognitive neuropsychiatry
- > Epistemology, including self-knowledge and memory
- > Kantian aesthetics, epistemology and moral theory
- > Legal philosophy
- > Logic and philosophy of mathematics
- > Metaphysics
- > Moral philosophy, including metaethics, applied ethics (especially bioethics) and normative ethical theory
- > Philosophy of film
- > Philosophy of language
- > Philosophy of mind
- > Philosophy of science: scientific knowledge and method, physics, cognitive science, biology
- > Social and political philosophy.

Spanish Studies

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

Staff in the Department of Spanish Studies are active researchers and supervisors in a variety of areas.

Research areas

- > 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
- > Spanish civil war
- > Spanish literature of the 19th and 20th centuries.

Further information or advice

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



“My thesis, in the broad area of philosophy of mind, asks what recent scientific research on psychedelic drugs can tell us about the nature of human cognition. I feel very fortunate to have world-class supervisors who, besides being experts in their field, have supported my interest in an unconventional but important topic.”

Chris Letheby PhD in Philosophy

Social Sciences

Reasons to conduct research in Social Sciences at the University of Adelaide

- 1 Supervision by internationally renowned scholars
- 2 Supportive research environments
- 3 Opportunity to mix with top students from around the world
- 4 Reputation for graduates successfully achieving postgraduate employment
- 5 Several high-achieving research centres located in the school

The School of Social Sciences is a world leader in several areas, including demography and migration, coastal management, regional and urban policy and housing, sociology and anthropology of health, unemployment and youth policy.

Large numbers of postgraduate students come to the school to be a part of its energetic engagement with research in the departments of Anthropology and Development Studies, Asian Studies, Geography, Environment and Population, Gender Studies and Social Analysis and Politics and International Studies.

The school offers both diversity and depth as its world-class scholars provide hands-on supervisory support to our highly successful postgraduates who obtain academic posts and become leaders in industry and government.

Research centres

- > The Hugo Centre for Migration and Population Research
adelaide.edu.au/apmrc
- > Centre for Housing, Urban and Regional Planning
adelaide.edu.au/churp
- > Fay Gale Centre for Research on Gender
adelaide.edu.au/gender

Anthropology and Development Studies

T: +61 8 8313 5654
E: socialsciences@adelaide.edu.au
W: arts.adelaide.edu.au/anthropology

Staff in the Department of Anthropology and Development Studies are active researchers and supervisors in a variety of areas.

Research areas

- > Anthropological perspectives on various locales: Aboriginal Australia, Australia, Europe, Melanesia and Oceania, South

Africa, 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, postmodern ethnography, material culture
- > Art and aesthetics in cultural process, belief systems and ritual symbolism, cosmology and myth, cultural constitution of identity ethnicity, multiculturalism, nationalism, regionalism, domestic organisation, feminist perspectives in ethnography
- > Colonialism, the state and third and fourth world peoples
- > Contemporary society
- > 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, systems of land tenure
- > Gender relations
- > Applied anthropology including environmental anthropology, mass/popular consumption, media, medical anthropology, photography and the production of political symbols, visual anthropology.

Asian Studies

T: +61 8 8313 5654
E: socialsciences@adelaide.edu.au
W: arts.adelaide.edu.au/asian/

Staff in the Department of Asian Studies are active researchers and supervisors in a variety of areas.

Research areas

- > Chinese linguistics, dialectology, L2 acquisition of Chinese and Japanese, translation studies
- > Asia: social change, politics and history; regional development; social and political reform; work and leisure; cultural influences; soft power; research into higher education: Australia-Asia relations regional institutions, energy policy and power transition; spirituality; Asian influences on the world
- > China: governance; rural studies; contemporary politics; migration; education; intellectual and cultural change; language education; critical thinking on contemporary China; political and cultural psyche; political philosophy
- > Japan and the Asia Pacific: contemporary political issues; environmental issues; foreign policy; defence and security; education, youth, culture and identity: issues of governance; language education; identity, intercultural language teaching and learning; spirituality and social theory.

Gender Studies and Social Analysis

T: +61 8 8313 5654
E: socialsciences@adelaide.edu.au
W: arts.adelaide.edu.au/gssa

Staff in the Department of Gender Studies and Social Analysis are active researchers and supervisors in a variety of areas.

Research areas

- > Australian cultural studies
- > Criminology
- > Gender bodies and health
- > Obesity science/eating disorders
- > Food and eating
- > Health policy
- > Gender and human rights
- > Refugees and human trafficking
- > Gender equity in ICT
- > Health: medical anthropology
- > Post-colonial histories; research methodology; feminist theories
- > Sexuality
- > Cultural politics of abortion
- > Social policy and citizenship
- > Sociology
- > Media and social change
- > Gendering and migration
- > Foster care in Australia
- > Classes and gendered access to higher education
- > Youth homelessness; urban change
- > Masculinities
- > Cross-cultural comparisons of death and dying
- > Ageing and gender relations.

Geography, Environment and Population

T: +61 8 8313 5643
E: socialsciences@adelaide.edu.au
W: arts.adelaide.edu.au/ges

Staff in the Department of Geography, Environment and Population are active researchers and supervisors in a variety of areas.

Research areas

- > 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
- > Migration policy

Associate Professor Megan Warin

Gender Studies and Social Analysis



Fields of research

- > Medical anthropology
- > Bodies, health, healing and illness
- > The anthropology of food and eating
- > Aboriginal and Torres Strait Islander health
- > Anthropology and epigenetics
- > Gender and health

Students I am currently supervising:

I supervise students who are researching different aspects of health and illness from the fields of anthropology, gender studies, sociology and public health. Current and recent student topics include: a study on why women with eating disorders delay seeking treatment; an ethnographic project on the everyday classed and gendered dimensions of food and families; a study on the effects of rapid weight gain from anti-psychotics; an exploration of intimacy and love in aged care facilities; and young Emirati women's experiences of cultural transition in the United Arab Emirates.

I chose to research in my field because:

I am passionate about what social science has to offer the broad field of health in terms of understanding how gender and social class interconnect with health and illness, the importance of understanding local knowledge and practices for health policy and clinical/public health interventions, and the ways in which politics and power operate through everyday lives, language and medical institutions to affect bodily experiences. I am particularly interested in how we embody cultural knowledge about food and eating (in relation to disordered eating and obesity), as well as how new developments in obesity science (such as epigenetics) challenges social anthropology and gender studies to stretch their theoretical and methodological concepts, and vice versa.

My favourite part of being a supervisor is:

Watching students become experts in their chosen field.

What makes a successful supervisor and student partnership?

Good communication, mutual respect and an ability to listen. I find it very rewarding when

students and supervisors can share and exchange exciting intellectual ideas.

Why research obesity at the University of Adelaide?

The University of Adelaide offers an outstanding research environment for the investigation of obesity because there are researchers from the social sciences (including the Fay Gale Centre for Research on Gender), the health sciences and the life sciences (The Robinson Research Institute) that explore obesity from differing perspectives.

Obesity is a complex biosocial problem that spans multiple environments; from molecular biology to socio-political and economic environments. The strong research collaborations between these different faculties means that your ideas can develop in an exciting space that reaches beyond simple solutions.

Projects you may be interested in:

- > critical perspectives on eating disorders and obesity
- > anorexia and desire
- > public understandings of obesity science (Barker's hypothesis, early origins of disease, postgenomics)
- > the anthropology of epigenetics
- > health, gender and social class
- > cultural contexts of food and eating
- > social theory and health
- > phenomenology and sensory experiences
- > theories of embodiment.

My students have gone on to be health researchers at universities in Australia and around the world. They play key roles in the development of state and national health policy, and advocate for health and social justice issues (e.g. mental health).

Recent publications

1. Musolino C, Warin M, Wade T and P Gilchrist (2016) Developing shared understandings of recovery and care: a qualitative study of women with eating disorders who resist therapeutic care. *Journal of Eating Disorders* 4:36 DOI: 10.1186/s40337-016-0114-2

“ I am particularly interested in how we embody cultural knowledge about food and eating (in relation to disordered eating and obesity), as well as how new developments in obesity science (such as epigenetics) challenges social anthropology and gender studies to stretch their theoretical and methodological concepts, and vice versa. ”

2. Warin M, Moore V, Ulijaszek S and M Davies (2015) Epigenetics and obesity: The reproduction of habitus through intracellular and social environments. *Body and Society* 10.1177/1357034X15590485.
3. Warin M, Zivkovic T, Moore V, Ward P and M Jones (2015) Short horizons and obesity futures: Disjunctures between public health interventions and everyday temporalities. *Social Science and Medicine*. Doi: 10.1016/j.
4. Warin M (2014) Material feminism, obesity science and the limits of discursive critique. *Body and Society* (doi: 10.1177/1357034X14537320).
5. Warin M and J Gunson (2013) The weight of the word: Knowing silences in obesity research. *Qualitative Health Research*, 23(12): 1686-1696.
6. Warin M, Zivkovic T, Davies M and V Moore (2012) Mothers as smoking guns: Fetal over nutrition and the reproduction of obesity. *Feminism and Psychology* 22(3): 360-75.

- > 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.

Politics and International Studies

T: +61 8 8313 5654

E: socialsciences@adelaide.edu.au

W: arts.adelaide.edu.au/polis/

Staff in the Department of Politics and International Studies are active researchers and supervisors in a variety of areas.

Research areas

- > Australian politics and public policy, including political institutions, parties and voting rights, Australian political history, media, key social, technological and economic issues
- > International and comparative politics of specific countries/regions, including Northeast and Southeast Asia, the Middle East, Russia, Eastern and Western Europe, Britain, the South Pacific, and Latin America
- > Foreign policy, particularly of Australia, China, India and Russia
- > Changing geopolitics and international political economy
- > International relations
- > Human rights and justice, including political rights, economic inequality, migration, ethnicity, gender and sexuality
- > History of political thought

- > Political theory, including liberal democratic theory, socialist theory, feminist theory, post-colonial theory, international relations theory, theories of citizenship
- > Political communication, including media and film, cultural theory, ideology and discourse
- > Environmental politics
- > Security issues, including asymmetric conflict and terrorism
- > Peace and conflict
- > Electoral studies.

Further information or advice

School of Social Sciences

Napier building, Ground floor,

North Terrace campus,

The University of Adelaide, SA, 5005, Australia

T: +61 8 8313 5654

E: socialsciences@adelaide.edu.au

W: arts.adelaide.edu.au/research

Supervisor Spotlight

Dr Georgina Drew

Anthropology and Development Studies



I chose to research in my field because:

I have always been fascinated by water and the ways that people connect to this most vital of resources. My work is motivated by a desire to understand, via ethnographic studies, water's cross-cultural significances and the potentials for its sustainable use. This research often leads into work with women's groups, religious organisations, environmental movements, and policy makers. The Himalayas are a region of strong interest, but I am increasingly working in Asia's urban ecologies with a focus on upstream and downstream resource management challenges.

My favourite part of being a supervisor is:

Mentoring is a rewarding process. It is fun to help students explore their interests and connect their work to emerging fields of scholarship. I also appreciate the opportunity to learn about new topics and theoretical debates. My favourite part of the process is when students come up with critiques of the existing scholarship and make original contributions to their field.

What makes a successful supervisor and student partnership?

Listening is a key skill that anthropologists need for the field-work process and I find that

the ability to hear what motivates students is a similarly important ingredient for a good supervision relationship. While it is critical to challenge students to think and work outside their comfort zones, it is also essential to keep in mind the driving questions and issues that inspire students, as these will sustain their research through to a successful completion.

Why research anthropology and development at the University of Adelaide?

I moved to Adelaide from New York City for the supportive and cross-disciplinary research environment at the University. Since my arrival, I have been fortunate to collaborate with colleagues in law and politics as well as in my own discipline. I have aspirations to work with colleagues in Asian studies and gender studies, while also engaging with the work of the numerous research institutes at the University.

Projects you may be interested in:

My work is primarily focused on the anthropology of water, with the related themes of gender equity, religious diversity, and sustainable development informing the scope of my research. I would be happy to explore more collaborations with people working on these themes, as well as topics

“My work is primarily focused on the anthropology of water, with the related themes of gender equity, religious diversity, and sustainable development informing the scope of my research.”

dealing with social movements, social and environmental equity, and climate change challenges. Projects focused in South Asia, East Asia, North America, and Latin America would be of particular interest.

Music

Reasons to conduct research in Music at the University of Adelaide

- 1 The Elder Conservatorium of Music is recognised internationally as a specialist music institution, with the longest history of any music school in Australia
- 2 PhD and masters degrees are available in all specialisations, including Composition, Musicology, Ethnomusicology, Performance, Sonic Arts and Music Education
- 3 Students have access to a variety of excellent resources, including one of the largest music libraries in the Southern Hemisphere
- 4 Research undertaken at the Elder Conservatorium is highly ranked by the ERA 2015 as above world standard

As one of Australia's oldest and most distinguished tertiary music schools, the Elder Conservatorium 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 maintains a wide range of professional links with music schools, conservatories and music organisations within South Australia and across the nation, and we sustain strong connections with important institutions in the UK, USA, Canada, Asia and Europe.

Research centres

- > The J.M. Coetzee Centre for Creative Practice (jointly with the School of Humanities)
adelaide.edu.au/jmcoetzeecentre

Research areas

Staff in the Department of Music are active researchers and supervisors in a variety of areas.

- > Australian Indigenous music
- > Contemporary Polish music
- > Music and politics in the 20th century
- > Musical analysis
- > Music composition (including concert music, music for film and television, electro acoustic music, jazz composition)
- > Musical performance
- > Traditional and contemporary Japanese music
- > Music technology and sonic arts.

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

Further information or advice

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



“I am currently in the third year of my PhD in Ethnomusicology, researching about Malaysian contemporary music and the ways composers incorporate cultural elements in their work. My supervisors are very encouraging and supportive, allowing me to broaden and refine my skill set learned during my undergraduate studies at the University of Adelaide.”

Peck Jin Gan
PhD (Ethnomusicology)

Faculty of Engineering, Computer and Mathematical Sciences

“ I am currently conducting my PhD research on algorithms and digital art in the School of Computer Science. The University of Adelaide provides me with an excellent research environment for my inter-disciplinary research project. ”

Aneta Neumann

The Faculty of Engineering, Computer and Mathematical Sciences has a fine reputation for innovative research across a wide range of fields. While research can be described within each school, the faculty also has a number of cross-discipline research groupings and centres, bringing together researchers from a variety of backgrounds.



The faculty's academic staff include world leaders in their disciplines, who actively contribute to real world problems through consulting and advanced fundamental and applied research.

At the University of Adelaide, postgraduate researchers can produce real commercial outcomes through industry collaborations, have access to high-quality research facilities and be surrounded by talented researchers and peers.

The University has established a number of world-class research institutes and centres in partnership with government and industry. They bring together world leading researchers and cross-discipline research groupings, modern, purpose-built infrastructure and an innovative culture to tackle state and national research priorities.

In addition, the faculty leads participation in two federally funded Co-operative Research Centres and is a founding member of the multi-university Defence Systems Innovation Centre.

Research institutes

- > Institute for Mineral and Energy Resources
adelaide.edu.au/imer
- > Environment Institute
adelaide.edu.au/environment

Research centres

- > Adelaide Radar Research Centre
adelaide.edu.au/radar
- > Australian Centre for Visual Technologies
acvt.com.au

- > Centre for Automotive Safety Research
casr.adelaide.edu.au
- > Centre for Biomedical Engineering
adelaide.edu.au/cbme
- > Centre for Defence Communications and Information Networking
trc.adelaide.edu.au/cdcin
- > Centre for Energy Technology
adelaide.edu.au/cet
- > Centre for High Performance Integrated Technologies and Systems
adelaide.edu.au/chiptec
- > Cooperative Research Centre for Deep Exploration Technologies
detcrc.com.au
- > Cooperative Research Centre for Greenhouse Gas Technologies
co2crc.com.au
- > South Australian Centre for Geothermal Energy Research
adelaide.edu.au/geothermal
- > Teletraffic Research Centre
trc.adelaide.edu.au/trc

Executive Dean

Professor Anton Middelberg

Associate Dean (Research)

Associate Professor Seth Westra

Associate Dean (Research Students)

Professor Ben Cazzolato

Australian School of Petroleum

Reasons to research Petroleum Engineering, Geoscience and Management 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 (ASP) is one of the largest petroleum-focused university programs in the Southern Hemisphere and the only institution worldwide offering fully integrated research and teaching programs covering petroleum geoscience, engineering and management. For petroleum engineering, the ASP is ranked as one of the top five schools in the world. The majority of our research leaders have strong, international industry links or backgrounds, ensuring that our research is up-to-date and relevant. ASP staff play leading roles in the research activities of the Society of Petroleum Engineers (SPE) and the American Association of Petroleum Geologists (AAPG). Performing internationally competitive applied research with the overall aim of understanding and reducing risk for the petroleum industry, the ASP's research is supported by a comprehensive suite of state-of-the-art facilities.

Research areas

Staff in the Australian School of Petroleum are active researchers and supervisors in a variety of areas.

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

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

Postgraduate coordinator

Dr Kathryn Amos
E: kathryn.amos@adelaide.edu.au

Further information or advice

Australian School of Petroleum
Santos Petroleum Engineering building,
North Terrace campus,
The University of Adelaide, SA, 5005, Australia
T: +61 8 8313 8000
E: admin@asp.adelaide.edu.au
W: asp.adelaide.edu.au



“Being in the Australian School of Petroleum has offered me enriching personal and academic opportunities and opened many doors. I have had the privilege of organising a student-industry geological field trip to Kangaroo Island and travelled internationally to conduct novel research in collaboration with world-class scientists from the United Kingdom and New Zealand.”

Melissa Craig
PhD in Petroleum Engineering

Supervisor Spotlight

Professor Pavel Bedrikovetsky

Australian School of Petroleum



Fields of research

- > stochastic models of statistical physics
- > hyperbolic systems of conservation laws
- > formation damage in petroleum reservoirs
- > improved water flooding
- > enhanced oil recovery
- > unconventional energy resources
- > water contamination and waste management in environmental engineering
- > fines migration in mining (heap and acid leaching)
- > petroleum system analysis by analytical models of secondary migration
- > porous reactors in chemical engineering (advanced math modelling).

I chose to research in my field because:

It links applied maths and fluid mechanics with practical applied problems in the energy and environment sectors.

My favourite part of being a supervisor is:

Sharing ‘hot’ unsolved problems with students and making progress together.

What makes a successful supervisor and student partnership?

Working together, not just supervising. Involvement in practical projects with Australian and international oil companies.

Why research petroleum engineering at the University of Adelaide?

There is a high level of both maths and engineering at the University of Adelaide.

Projects you may be interested in:

Suspension-colloidal flows in porous media (potable water resources, aquifer contamination, artesian wells, industrial waste disposal) and in the human body (brain strokes, tumours, cancer research, cholesterol).

My students have gone on to:

National and international oil and gas companies.

Recent publications

1. Borazjani, S., Roberts, A. J., and Bedrikovetsky, P. (2015). Splitting in systems of PDEs for two-phase multicomponent flow in porous media. *Applied Math Letters*, 53, 25-32.
2. Borazjani, S., Bedrikovetsky, P. (2017). Exact Solutions for Two-Phase Colloidal-Suspension Transport in Porous Media. *Applied Mathematical Modelling*, (available online).
3. Borazjani, S., Farajzadeh, R., Bedrikovetsky, P., 2016, Analytical solutions of oil displacement by a polymer slug with varying salinity, *J. Petr. Sci. Eng.*, 140 28-40.
4. Borazjani, S., Behr, A., Genolet, L., Van Der Net, A. and Bedrikovetsky, P., 2016. Effects of Fines Migration on Low-Salinity Waterflooding: Analytical Modelling. *Transport in Porous Media*, pp.1-37.



Chemical Engineering

Reasons to research Chemical Engineering 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 boasts a vibrant and dynamic research team that undertakes cutting edge research on global challenging issues including energy, healthcare, water and sustainability. The school currently holds over 70 higher-degree researchers in the main areas of: nano technology and materials engineering, bio technology and pharmaceutical engineering, renewable energy technology and water and resource engineering.

Developing the highest quality interdisciplinary programs of teaching and research, the school aims to inspire confidence in the ability to learn and educates chemical engineers to play leading roles across a range of industries. Applicants with a background in chemical engineering, biotechnology or related subject areas are welcome to apply.

Research areas

The School of Chemical Engineering has built and cultivated a strong industry-oriented research capacity focusing on developing innovative chemical and biochemical engineering processes and novel technologies with applications in energy storage, renewable energy alternatives, tissue engineering/regenerative medicines, antibacterial coating, drug/gene delivery, waste recycle/reuse and environment emissions, covering chemical, pharmaceutical/medical, food/agricultural, and defense industries. The school has research strengths and themes focusing on the national priority areas, including:

- > advanced bioprocessing and biotechnology
- > nanotechnology and functional materials
- > renewable energy and resources
- > water and environment
- > pharmaceutical and biomedical technology.



“It is a privilege to do my research at the University of Adelaide. I have been able to develop my knowledge of nanomaterials fabrication, polymeric membranes fabrication and performance evaluation through working in a positive environment with knowledgeable staff and well-prepared laboratories.”

Masoumeh Zarger
PhD in Chemical Engineering



“Research in the School of Chemical Engineering is at the frontier of nanotechnology and renewable energy and it is very rewarding to be a part of it. I have had the opportunity to work with a team of very knowledgeable researchers while using world class equipment, which has enabled me to develop my research skills immensely.”

Anthony Vasileff
PhD in Chemical Engineering

Postgraduate coordinator

Dr Hu Zhang
E: hu.zhang@adelaide.edu.au

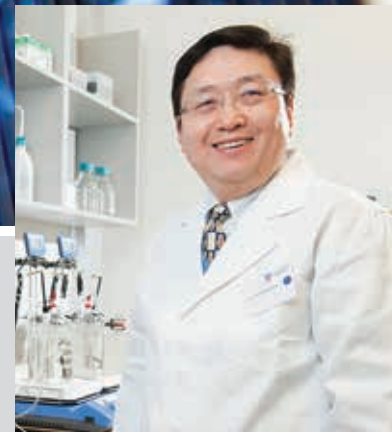
To find a supervisor, or learn more about research topics, visit: chemeng.adelaide.edu.au

Further information or advice

School of Chemical Engineering
Engineering North building,
Level 1, North Terrace campus,
The University of Adelaide, SA, 5005, Australia
T: +61 8 8313 5446
E: chemical.engineering@adelaide.edu.au
W: chemeng.adelaide.edu.au

Professor Shizhang Qiao

Chemical Engineering



Fields of research

Nanomaterials and nanotechnology for clean energy storage and conversion (electrocatalysis, photocatalysis, fuel cells, lithium-ion battery, metal-air battery, supercapacitor).

Recent awards and prizes

- > 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
- > ARC Australian Research Fellowship (2009, 2009)

I chose to research in my field because:

The research and development of clean energy generation and storage has been driven by increasing concerns over issues such as climate change and energy security as a result of dwindling petroleum supplies.

Currently, it is a tremendous challenge, but with great opportunity and a bright future, to find new-generation nanomaterials with reduced cost, enhanced stability and environmentally friendly properties for sustainable clean energy generation and storage. This area of research holds great promise for future applications and impact in everyday life.

My favourite part of being a supervisor is:

- > discussing with students about research progress and perspective
- > helping students develop critical thinking
- > when my students make scientific breakthroughs in their research field
- > seeing the final step when students submit their PhD thesis and achieve their goal of a scientific profession.

What makes a successful supervisor and student partnership?

As a supervisor, it is important to maintain a positive atmosphere within the research group, allowing all members to develop their scientific independence and confidence for their future development.

It is important for the group leader to balance the group resources and the needs from group members, and to incorporate the long-term career development goal of each group member into their current projects.

Communication with students should be honest, open and critical but positive and respectful.

Many students come from different cultural, social and educational backgrounds, often with different expectations and thoughts. It is therefore important to respond to these differences and respect their individual needs and perspectives, especially at the beginning of their PhD studies.

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

Nanomaterials and nanotechnology for clean energy conversion and storage are important research directions that have developed very 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 very much enjoy working in this research area, as this opportunity offers them versatile training and broad experience that can be employed across many industries and academia.

Specifically, in our new labs with state-of-the-art equipment at the School of Chemical Engineering, students have great opportunity to synthesise the most advanced nanomaterials and work on their real 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 supercapacitors, metal-air batteries and lithium-ion batteries
- > design of electrocatalyst for various clean energy conversions by quantum chemistry computations.

My students have gone on to:

Academia, as senior lecturers and research fellows (University of Queensland, University of Adelaide, University of New South Wales, Curtin University, Hokkaido University, CSIRO, Chinese Academy of Sciences) and industry.

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

Recent publications

1. Ran J.R., Qiao S.Z. et al., Ti₃C₂ MXene Co-catalyst on Metal sulfide Photo-absorbers for Enhanced Visible-light Photocatalytic Hydrogen Production, *Nature Communications*, 2017, 8, 13907.
2. Zhu Y.P., Qiao S.Z. et al., Hollow Co₃O₄ Hierarchical Microtube Arrays: Template-Mediated Synthesis and High-Efficiency Water Electrolysis, *Angew Chem Int Ed*. 2017, 56, 1324.
3. Jiao Y., Qiao S.Z. et al., Electrocatalytic Hydrogen Evolution on Heteroatom Doped Carbons: Activity Trends and Catalysts Design Principle, *Nature Energy*, 2016, 1, 16130.
4. Zheng Y., Qiao S.Z. et al., High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst, *J. Am. Chem. Soc.*, 2016, 138, 16174.

Civil, Environmental and Mining Engineering

Reasons to research Civil, Environmental and Mining Engineering at the University of Adelaide

- 1 Internationally recognised and one of the top civil engineering schools in Australia for research, in the top 150 engineering schools globally
- 2 Home to some of Australia's finest researchers in the management and design of water supply systems and structural resilience, materials development, and analytical and computational modelling
- 3 Exciting new opportunities for research in support of the geotechnical and mining engineering industry in Australia

Delivering award-winning research of an international standard, the School of Civil, Environmental and Mining Engineering offers exceptional postgraduate opportunities to conduct important and interesting research into a variety of engineering issues.

The school's three research concentrations investigate water systems, civil structures

and mining, geomechanics and geostatistics across a wide variety of research themes.

Research areas

School of Civil, Environmental and Mining Engineering staff are active researchers and supervisors in a variety of areas.

Water

- > decision support and optimisation
- > pipe condition assessment
- > hydrology and climate impacts.

Structures

- > structural resilience under extreme loads (blast, earthquake, cyclone, etc.)
- > enhancing structural sustainability
- > retrofitting of existing structures
- > materials development
- > computational and analytical mechanics.

Mining and geotechnical engineering

- > geostatistics
- > rock fracture modelling
- > geomechanics
- > geotechnical engineering
- > mining operations.

Postgraduate coordinator

Associate Professor Chaoshui Xu
E: chaoshui.xu@adelaide.edu.au

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

Further information or advice

School of Civil, Environmental and Mining Engineering
Engineering North building, Level 1,
North Terrace campus,
The University of Adelaide,
SA, 5005, Australia

T: +61 8 8313 5451

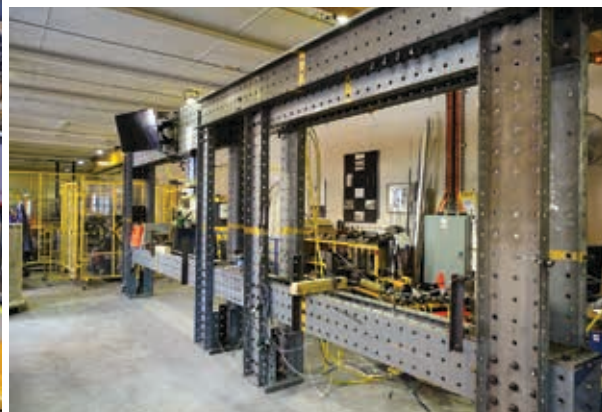
E: enquiries@civeng.adelaide.edu.au

W: ecms.adelaide.edu.au/civeng

Left: Multi-purpose testing systems in the mining laboratory, where a High-Pressure High-Temperature Triaxial Cell is also installed

Top right: A High-Density Polyethylene (HDPE) Pipeline System for hydraulic research on water distribution systems

Bottom right: Load frames in the structural engineering laboratory



Professor Holger Maier

Civil, Environmental and
Mining Engineering



Fields of research

The research in which I have been involved and which attracts doctoral candidates spans a range of techniques in water resources and infrastructure modelling and management, including modelling using artificial neural networks and process-driven models, optimisation using genetic algorithms and ant colony optimisation, uncertainty and sensitivity analysis and decision support, as well as a range of application areas including natural resource management, urban water supply and natural hazard mitigation. Application areas are generally in water and environmental engineering, both in natural resources management and urban infrastructure.

Recent awards and prizes

- > Stormwater Australia National Award for Excellence in Research and Innovation for the Managed Aquifer Recharge and Stormwater Use Options (MARSUO) project (part of project team), 2014
- > Environmental Modelling and Software Best Paper Award 2010: Generic Modelling and/or Software Methods for Management Option Rank Equivalence (MORE) - A New Method of Sensitivity Analysis for Decision Making by J.K. Ravalico, G.C. Dandy and H.R. Maier
- > University of Adelaide Award for Excellence in Higher Degree by Research Supervision, 2010
- > Best Paper Award for Sensitivity of estimated urban water supply security based on various global circulation models and SRES emission scenarios by Fiona L. Paton, Graeme C. Dandy and Holger R. Maier, Practical Responses to Climate Change National Conference 2010, September 29-October 1, Melbourne, Australia, 2010

I chose to research in my field because:

One of the greatest challenges facing the world today is the sustainable management of our built and natural environments. For example, Australia is faced with an ageing water supply infrastructure while demands for water and expectations in relation to water quality continue to increase. Similarly, the need to allocate Australia's scarce water resources in a way that balances the competing needs of large numbers of stakeholders (including the environment) is acute. Consequently, the focus of my research has been on the development and application of improved techniques for making optimal

decisions about built and natural environments when faced with uncertain information and competing demands. More recently, this has also extended into decision support for natural hazard risk reduction.

My favourite part of being a supervisor is:

Being able to interact with students – to see them grow and develop into independent researchers.

What makes a successful supervisor and student partnership?

Like all learners, doctoral candidates learn more and more effectively when they are engaged in researching topics of interest to themselves. Helping them find the right question, therefore, requires sympathetic and supportive guidance and a fine balance between giving students the freedom to 'find their own way' and giving specific direction. Guidance comes in many different forms, depending on students' personalities and personal circumstances.

Much of my teaching is based around the facilitation of independent learning, and I take this same philosophy into my PhD supervision. Students must be provided with a constructive research environment that nurtures their individuality and personal intellectual and emotional growth.

It is imperative that supervisors not only demand the high standards expected of a doctoral candidate, but that they also support them in achieving those standards, often as mentor, colleague and friend.

In order to support international students, I spend additional time with them, particularly during the early stages of their studies to assist them with acclimatising to a new and often very different situation from that which they are used to. I also encourage the development of a research community among my students, so that we can all learn from and support each other.

Why research integrated water resources engineering at the University of Adelaide?

There is a very strong research group in this area in the School of Civil, Environmental and Mining Engineering, as well as an active and engaged group of PhD students and research associates.

My students have gone on to:

Take on a variety of roles. Some have stayed in research through postdoctoral, academic and industry positions, some work in consulting and some for government organisations.

It is imperative that supervisors not only demand the high standards expected of a doctoral candidate, but that they also support them in achieving those standards, often as mentor, colleague and friend.

Recent publications

1. Culley S., Noble S., Yates A., Timbs M., Westra S., Maier H.R., Giuliani M. and Castelletti, A. (2016) A bottom-up approach to identifying the maximum operational adaptive capacity of water resource systems to a changing climate, *Water Resources Research*, 52(9), 6751-6768, DOI: 10.1002/2015WR018253.
2. Zheng F., Zecchin A.C., Maier H.R. and Simpson A.R. (2016) Comparison of the searching behavior of NSGA-II, SAMODE and Borg MOEAs applied to water distribution system design problems, *Journal of Water Resources Planning and Management*, 142(7), DOI: 10.1061/(ASCE)WR.1943-5452.0000650, 04016017.
3. Maier H.R., Guillaume J.H.A., van Delden H., Riddell G.A., Haasnoot M. and Kwakkel J.H. (2016) An uncertain future, deep uncertainty, scenarios, robustness and adaptation: How do they fit together?, *Environmental Modelling and Software*, 81, 154-164, DOI: 10.1016/j.envsoft.2016.03.014.
4. Wu W., Maier H.R., Dandy G.C., Leonard R., Bellette K., Cuddy S. and Maheepala S. (2016) Including stakeholder input in formulating and solving real-world optimisation problems: generic framework and case study, *Environmental Modelling and Software*, 79, 197-213, DOI: 10.1016/j.envsoft.2016.02.012

Please note: Professor Holger Maier is in high demand and often does not have the capacity to take on extra students.

Computer Science

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 commercialisation of research

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 masters and PhD students.

Possessing a strong research ethos, the school is prominent in the areas of computer vision, machine learning (especially deep learning and probabilistic graphical models), distributed systems, Internet computing, web technologies, optimisation and logistics, algorithms, software engineering, and computer science education research. Producing internationally recognised commercial outcomes, the school's researchers construct and use an array of rare and unique computing resources.

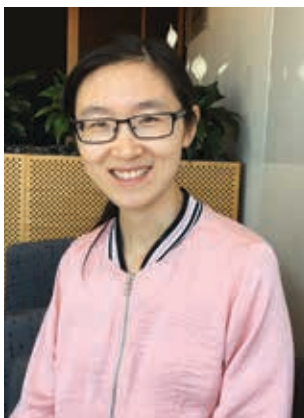
Research centres

- > Australian Centre for Visual Technologies
acvt.com.au
- > Centre for Distributed and Intelligent Technologies
blogs.adelaide.edu.au/cdit
- > Centre for Research on Engineering Software Technologies
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
acvt.com.au
- > distributed computing, Internet of Things, web technologies
blogs.adelaide.edu.au/cdit



“It is really a great pleasure for me to study at the University of Adelaide and communicate with leading researchers in many areas. The perfect environment in both hardware and software offer me various opportunities to get in touch with the most advanced research in the world. The valuable insights from my supervisor and other group members has helped me improve rapidly.”

Hui Li PhD in Computer Science



“I’m greatly privileged to be working on leading-edge research alongside a group of researchers who are very supportive and among the best in my field. It’s nice to be surrounded by all the friendly members of the School of Computer Science.”

Chamara Saroj Weerasekera
PhD in Computer Science

- > optimisation and logistics
cs.adelaide.edu.au/research/evolcom
- > computer science education research
cs.adelaide.edu.au/research/cseducation
- > complex systems
blogs.adelaide.edu.au/cdit
- > networking and security
blogs.adelaide.edu.au/cdit
- > software engineering
cs.adelaide.edu.au/research/crest

Postgraduate coordinator

Professor Ian Reid
E: ian.reid@adelaide.edu.au

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

Further information or advice

School of Computer Science
Ingkarni Wardli building,
Level 4 North Terrace campus,
The University of Adelaide, SA, 5005,
AUSTRALIA
T: +61 8 8313 5586
E: reception@cs.adelaide.edu.au
W: cs.adelaide.edu.au

Associate Professor Gustavo Carneiro

Computer Science



Fields of research

- > Computer vision
- > Medical image analysis
- > Machine learning.

Awards

- > Marie Curie – Micro One World Grant Award 2015
- > Humboldt Fellowship for Experienced Researcher Award 2014
- > 50,000th Marie Curie Fellowship Award 2010
- > Outstanding Reviewer Award - IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2010
- > Siemens Corporate Research Outstanding Achievement Award (2008)

Research impact

My research in computer vision and machine learning has had a large impact in scientific circles, but one particular methodology I developed in medical image analysis has now been integrated in several ultrasound machines, and it is used by thousands of people every day at hospitals and clinics around the world.

I chose to research in my field because:

Vision is one of humans' most important senses, and the understanding of vision will enable us to understand how our brains work, which is the ultimate goal of computer vision.

In the last 15 years or so, computer vision researchers have become increasingly interested in machine learning techniques that try to learn vision models based only on very large training sets containing images annotated with the visual objects present in them. Traditionally, acquiring such training sets was difficult, but that problem has been solved with the abundance of digital cameras, smart phones, photo sharing websites with their seemingly infinite storage capability, and crowdsourcing image annotation tools. This is the main reason behind the current dominance of machine learning techniques in computer vision, and consequently my interest in those two fields.

I have also become interested in medical image analysis, after my tenure at Siemens Corporate Research, which is a research laboratory in Princeton, USA that develops state-of-the-art methodologies in that area. The analysis of medical images has some similarities with the analysis of pictures taken from regular cameras, but the nature of the imaging process to generate ultrasound, magnetic resonance or computerised tomography studies is completely different, and that needs to be understood in order to produce systems that work properly with medical images.

One point that is important to note is that the acquisition, annotation and public storage of medical images is not widespread yet, but there are efforts in this direction, which makes the application of machine learning methods in medical image analysis a hot topic to pursue. With medical image analysis, my goals are not only to understand how our brains work, but also to help clinicians improve their working conditions by providing computer aided diagnosis (CAD) systems that can be used as a second reader, which allows the clinicians to reduce the time to read an image and to increase the sensitivity and specificity of their diagnoses.

My favourite part of being a supervisor is

Bringing a student, who is really motivated to learn and work, from a very basic understanding of a particular field of research to a level where he or she is able to write a scientific paper for the most prestigious journals and conferences in the field. I also enjoy when a student becomes truly expert in the field and starts teaching me things that I did not know or understand.

What makes a successful supervisor and student partnership?

Dedication, respect, motivation and application from both parties are a must. An open channel of conversation, where ideas can be discussed, is also another important point. Finally, I believe a clear set of goals determined at the beginning of the study program is also important for a precise assessment of the student's progress.

My students have gone on to

Become university professors, work as postdocs in prestigious universities and researchers in multinational companies, work towards a PhD degree, and work at start-ups and local companies.

Why research computer vision/machine learning/medical image analysis at the University of Adelaide?

The University of Adelaide has the biggest and one of the most prestigious groups in computer vision and machine learning in Australia. Our research group, the Australian Centre for Visual Technologies (ACVT), has consistently acquired the most competitive research grants in Australia (ARC discovery projects, linkage projects, centre of excellence, future and laureate fellowships), published in the most reputable conferences (CVPR, ICCV, ECCV, NIPS, ICML) and journals (TPAMI, TIP, IJCV) of these fields, and received important prizes (best paper in CVPR 2010, runner up in CVPR 2015).

In terms of medical image analysis, we have been able to use the most advanced machine learning and computer vision techniques in order

“My research in computer vision and machine learning has had a large impact in scientific circles, but one particular methodology I developed in medical image analysis has now been integrated in several ultrasound machines, and it is used by thousands of people every day at hospitals and clinics around the world.”

to publish in the top conferences (MICCAI, ISBI) and journals (TIP, MedIA, JBHI) of the field.

It is important to mention that our students, after graduating, are able to pursue fruitful academic and industrial careers in the most important universities and companies around the world.

Projects you may be interested in

Analysis of multimodal medical images using deep learning methods, high level classification methods from weakly annotated training sets, robust loss functions in deep learning methods, and local feature extractors using deep learning methods.

Recent publications

1. Gustavo Carneiro, Tingying Peng, Christine Bayer, and Nassir Navab. Automatic Quantification of Tumour Hypoxia from Multi-modal Microscopy Images using Weakly-Supervised Learning Methods. Paper accepted for publication by IEEE Transactions on Medical Imaging. 2017.
2. Tuan Anh Ngo, Zhi Lu and Gustavo Carneiro. Combining Deep Learning and Level Set for the Automated Segmentation of the Left Ventricle of the Heart from Cardiac Cine Magnetic Resonance. Medical Image Analysis 35 (2017): 159-171.
3. Neeraj Dhungel, Gustavo Carneiro, Andrew Bradley. A Deep Learning Approach for the Analysis of Masses in Mammograms with Minimal User Intervention. Paper accepted for publication by Medical Image Analysis. 2017.

Electrical and Electronic Engineering

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, with staff and students active in research areas in health technology, power and energy, and sensing and security. The school's vision is to contribute to solving real world problems through fundamental and applied research. The school aims to provide the highest quality PhD supervision and a supportive research environment, with strong linkages to local and international partners.

Research areas

School of Electrical and Electronic Engineering staff are active researchers and supervisors in a variety of areas.

Health technology

- > medical monitoring and diagnostics
- > sensing and processing of biomedical signals for automated medical monitoring and diagnostics
- > brain-computer interface for stroke rehabilitation
- > characterising sleep-related breathing disorders for semi-automated screening tools
- > biosensing – biomarker/protein detection.

Biomedical electronic devices

- > wireless stent for coronary heart disease
- > conductive textiles and polymers for wireless biomedical systems.

Power and energy

Systems analysis and control

- > complex hybrid dynamical systems, including stochastic jump systems, singular systems, switched hybrid systems, fuzzy systems, and multi-agent systems – modelling, analysis and control
- > networked control systems – stability analysis and fault-tolerant control design

- > power systems and dynamics – stability control, protection and fault isolation
- > energy storage integration and control.

Machines and drives

- > low-cost, high-efficiency electric motor drives
- > high-performance permanent-magnet electrical machines
- > power electronics for small-scale renewable systems.

Sensing and security

Applied electromagnetics and terahertz technologies

- > metamaterials and plasmonics
- > wearable antennas and conductive textiles and polymers for RFID
- > reconfigurable antennas and frequency-selective surfaces
- > optical nano-structures inspired by radiofrequency devices
- > ultra-high-speed short-path communications
- > terahertz waveguides.

Surveillance and remote sensing

- > synthetic aperture radar and digital radar
- > remote sensing for soil moisture and biomass observations, bushfire observations, and precipitation observations
- > sensor array signal processing
- > locating interference and spoofers to global navigation satellite systems
- > malicious jammer detection with machine learning in wireless sensor networks.

Postgraduate coordinator

Dr Rastko Zivanovic

E: enquiries@eleceng.adelaide.edu.au

To learn more about these areas of research, visit: eleceng.adelaide.edu.au/research

Further information or advice

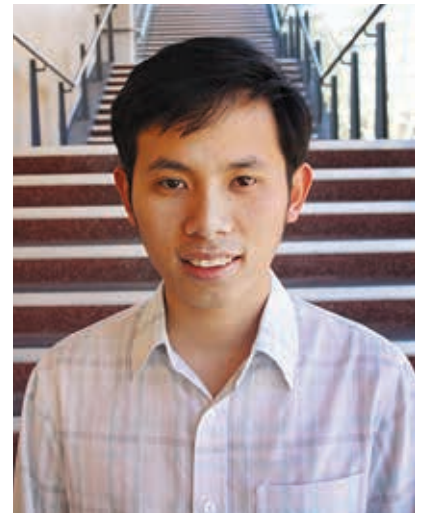
School of Electrical and Electronic Engineering

Ingkarni Wardli building,
Level 3, North Terrace campus,
The University of Adelaide, SA, 5005, Australia

T: +61 8 8313 5277

E: enquiries@eleceng.adelaide.edu.au

W: eleceng.adelaide.edu.au



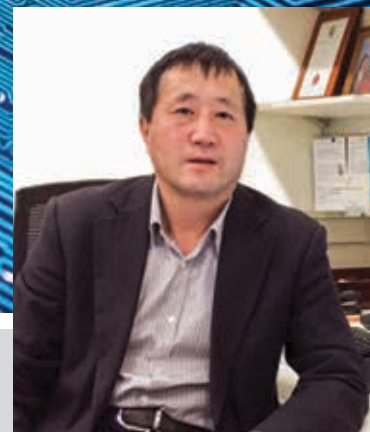
“ I chose to study my PhD at the University of Adelaide because of the excellent supervisors, which I had been experiencing during my undergraduate study, as well as the quality and prestige of the research group in the School of Electrical and Electronic Engineering.”

Nghia Nguyen-Trong

PhD in Electrical Engineering

Professor Peng Shi

Electrical and
Electronic Engineering



Fields of research

- > systems and control
- > computational and intelligent systems
- > operations research.

Awards

- > ISI Thomson Reuters Highly Cited Researcher in Engineering
- > IEEE Distinguished Lecturer
- > Andrew Sage Best Transactions Paper, IEEE Systems, Man and Cybernetics Society
- > Fellow, Institute of Electrical and Electronic Engineering
- > Fellow, Institution of Engineering and Technology
- > Fellow, Institute of Mathematics and its Applications.

I chose to research in my field because:

Systems and control theory can be applied in many real world applications such as power systems, chemical process, manufacturing systems, wireless communications and security systems.

Systems theory is the interdisciplinary study of systems, with the goal of illustrating principles applicable to all types of systems at every nesting level in all fields of research.

Control theory is a discipline that involves studying general laws in the control and communications of machine research, life science and social science and also studying how a dynamic system can maintain the balanced or steady state in a changing environment. Control theory is one of the three basic technical disciplines of systems theory, information theory and operations research.

It is a challenge but rewarding to conduct research work in systems and control for solving real world application problems.

My favourite part of being a supervisor is:

I enjoy seeing students' progress from their first year to the point where they have become independent researchers; in particular, publishing their works in respected international journals.

What makes a successful supervisor and student partnership?

Respect for and trust of each other. The supervisor and student should work together to achieve the milestones set up in the

research programs. Regular meetings with students, listening to their progress, and more importantly providing advice/suggestions for their difficulties and concerns.

Why research systems and control at the University of Adelaide?

Systems and control is a fundamental discipline, which has a long tradition at the University of Adelaide. Research in systems and control requires skills relevant for research in many other disciplines.

A typical project will include various stages requiring different abilities, starting from the development of novel concepts based on theoretical models, through computer simulations and optimisation, to prototype fabrication and experimental validation.

Projects students may be interested in:

Signal processing, fault detection and estimation, modelling, analysis and design of networked control systems, time-delay systems, stochastic systems, fuzzy sets and systems, robust control and filtering, multi agent systems, hybrid systems.

My students have gone on to:

Research and development positions in high-tech companies, management positions in industry, research in government agencies and academic research.

Recent publications

1. P. Shi, X. Su and F. Li, Dissipativity-based filtering for fuzzy switched systems with stochastic perturbation, IEEE Trans on Automatic Control, vol.61, no.6, pp.1694-1699, 2016.
2. P. Shi, Y. Zhang, M. Chadli and R. Agarwal, Mixed H-infinity and passive filtering for discrete fuzzy neural networks with stochastic jumps and time delays, IEEE Trans on Neural Networks and Learning Systems, vol.27, no.4, pp.903-909, 2016.
3. P. Shi, M. Liu and L. Zhang, Fault-tolerant sliding mode observer synthesis of Markovian jump systems using quantized measurements, IEEE Trans on Industrial Electronics, vol.62, no.9, pp.5910-5918, 2015.
4. P. Shi and Q. Shen, Cooperative control of multi-agent systems with unknown state-dependent controlling effects, IEEE Trans on Automation Science and Engineering, vol.12, no.3, pp.827-834, 2015.

“ Research in systems and control requires skills relevant for research in many other disciplines. A typical project will include various stages requiring different abilities, starting from the development of novel concepts based on theoretical models, through computer simulations and optimisation, to prototype fabrication and experimental validation. ”

Mathematical Sciences

Reasons to research Mathematical Sciences at the University of Adelaide

- 1 One of the leading mathematics schools in Australia, receiving the top rating of 'well above world standard' (ERA-5) in the most recent national evaluation of research
- 2 Award-winning staff, including medallists of the Australian Mathematical Society and the Australian Academy of Science
- 3 Excellent opportunities and facilities in a thriving and stimulating environment, including access to one of the best supercomputers in the country, and support for annual attendance at domestic mathematics or statistics conferences and attendance at one international research conference

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, staff in the school are Australian leaders in postgraduate research training in these areas.

The school is highly respected internationally for its research strengths in geometry and mathematical physics, statistics, operations research and stochastic modelling, and theoretical and applied mechanics.

Research centres

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

Research areas

Geometry and mathematical physics

Geometry lies at the core of much of modern mathematics, with deep and broad implications in other mathematical disciplines, pure and applied. For example, geometry is used in cryptology, medical imaging and physics. Geometry draws on methods from algebra, differential equations and topology to investigate spaces ranging from our own three-dimensional space to abstract spaces that can have infinitely many

dimensions. Geometry and physics have been closely linked since the earliest of times. Today's physics requires sophisticated mathematical ideas and, in turn, contributes new ideas and physical intuition to help solve long-standing mathematical problems. The School of Mathematical Sciences has an active group of researchers in geometry and mathematical physics with an international reputation. The areas of geometry represented in the school include complex geometry, differential geometry and noncommutative geometry.

Statistics

Statistics is central to the development and practice of much of modern science and social science. Indeed, without biostatistical principles for the conduct of clinical trials and epidemiological studies, evidence-based medicine and the pharmaceutical industry would not exist. Modern biology is much more quantitative than the biology of the past, and is now critically dependent on the mathematical, physical and computer sciences to conduct research in genomics, proteomics and systems biology. Much of economics relies on the ability to effectively model the evolution of indices over time. These requirements have driven a great deal of the novel statistical methodology developed everywhere in the world. The School of Mathematical Sciences has a strong group of statisticians who develop new methodologies to suit these, and other areas of application.

Operations research and stochastic modelling

Operations research is the mathematics of enhanced decision-making. It concerns developing mathematical models of systems and the methods for their analysis and application, with a focus on optimising the system with respect to chosen performance measures. The systems studied typically involve some degree of randomness, and so stochastic models are required to capture such features. In the School of Mathematical Sciences at the University of Adelaide, we have world-leading expertise in these areas; in particular in modelling, measurement and estimation of the Internet and other networks, complex stochastic models and algorithmic approaches to their study, and stochastic models and associated modern Bayesian computational methods in ecology, epidemiology and evolution.

Theoretical and applied mechanics

This group leads international research in dynamical systems, fluid mechanics, mathematical biology, sea ice, and nanomechanics. The group develops fundamental understanding of the behaviour of engineering, physical and biological systems through the use of advanced mathematical methods, high performance

computing, and real world validation including data analytics. Our strong research specialises in several areas. Our mathematical modelling of multiscale systems develops effective models of collective behaviour that emerges on the space-time scales of human interest. Research in free and moving boundary problems focuses on optical fibre fabrication, biological-gel behaviour, and sea-ice interaction. Simulation of turbulent flows underpins our developing understanding of complex spatio-temporal chaos.

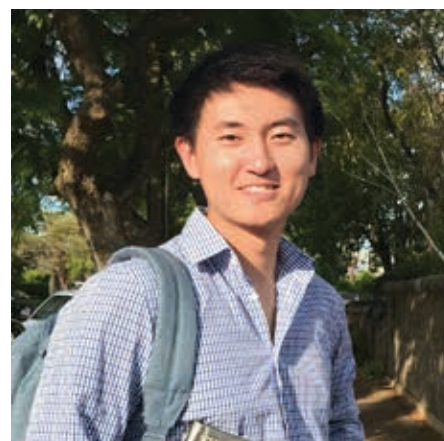
To learn more about these areas of research and the School of Mathematical Sciences, visit: maths.adelaide.edu.au

Postgraduate coordinator

Associate Professor Ben Binder
E: benjamin.binder@adelaide.edu.au

Further information or advice

School of Mathematical Sciences,
Ingkarni Wardli building, Level 6,
North Terrace campus,
The University of Adelaide, SA 5005, Australia
T: +61 8 8313 5407
E: admin.maths@list.adelaide.edu.au
W: maths.adelaide.edu.au



“My first year at the University of Adelaide has been a challenging and extremely rewarding experience. I have had the chance to learn from and collaborate with world-class mathematicians working at the cutting edge, and enjoying being part of a supportive community of postgraduate students.”

Hao Guo
PhD in Mathematical Sciences

Associate Professor Joshua Ross

Mathematical Sciences



Fields of research

Operations research and stochastic modelling, in particular in biology and epidemiology with the aim to assist in determining effective conservation/biosecurity and public health policy.

Awards

- > Moran Medal of the Australian Academy of Science (2017)
- > JH Michell Medal of ANZIAM (2016)
- > ARC Future Fellowship (2013)
- > AIPS Young Tall Poppy Science Award (2013)
- > Zukerman Research Fellowship, University of Cambridge (2007)
- > ARC APD Fellowship (2007)

Research impact

Some of my research is dedicated to informing the national response to a pandemic.

Students I am currently supervising:

- > Peter Ballard (PhD) - On the probability of epidemic fadeout
- > Sarah Heinrich (PhD) - Quantitative assessment of the illegal global trade of pangolin species from Southeast Asia and Africa
- > Nic Rebuli (PhD) - Hybrid epidemic modelling and inference
- > Mingmei Teo (PhD) - Optimising epidemiological interventions
- > James Walker (PhD) - Data augmented MCMC for partially observed stochastic epidemic models with applications in First Few Hundred studies and pandemic control
- > Freyja Watters (PhD) - Wildlife trafficking and crime in Southeast Asia
- > Rachel McLean (MPhil) - Methods for combating the global illegal pangolin trade
- > Jessica Penfold (MPhil) - Exploring the link between weather factors and influenza dynamics
- > Kym Wilkins (Honours) - Modelling gene drive strategies for pest eradication.

I chose to research in my field because:

I am motivated by interesting applications, in particular those where accounting for stochasticity is important.

My favourite part of being a supervisor is:

Sharing the excitement of discovering new results!

What makes a successful supervisor and student partnership?

Engagement from both the supervisor and the student in the project, and regular communication.

Why research applied mathematics at the University of Adelaide?

The University of Adelaide is one of the leading universities in Australia for applied mathematics, and in particular stochastic modelling and applications to biology. Our staff include medallists of the Australian Mathematical Society and the Australian Academy of Science.

We have excellent facilities, including access to 'Phoenix' - one of the best supercomputers in the country - and support to attend domestic and international conferences. Furthermore, Adelaide is a beautiful city in which to live and study.

Projects students may be interested in:

- > stochastic epidemic modelling
- > statistical inference for epidemics, in particular in the early stages of an outbreak
- > mathematics for combating global wildlife trafficking.

My students have gone on to:

Jobs in government/industry (e.g. the Australian Bureau of Statistics and the Defence Science and Technology Group) and research at overseas universities (e.g. the University of Cambridge and NC State University).

Recent publications

1. Ballard, P.G., Bean, N.G. and Ross, J.V. (2016) The probability of epidemic fade-out is non-monotonic in transmission rate for the Markovian SIR model with demography. *Journal of Theoretical Biology* 393, 170-178.
2. Black, A.J. and Ross, J.V. (2015) Computation of epidemic final size distributions. *Journal of Theoretical Biology* 367, 159-165.
3. Garcia-Diaz, P., Ross, J.V., Ayres, C., and Cassey, P. (2015) Understanding the biological invasion risk posed by the global wildlife trade: propagule pressure drives the introduction and establishment of Nearctic turtles. *Global Change Biology* 21, 1078-1091.
4. Cope, R.C., Cassey, P., Hugo, G.J. and Ross, J.V. (2014) Assessment of the Risk of Ebola Importation to Australia. *PLOS Currents Outbreaks* 2014 Dec 10. Edition 1. Black, A., House, T., Keeling, M.J. and Ross, J.V. (2013) *Epidemiological*

“The University of Adelaide is one of the leading universities in Australia for applied mathematics, and in particular stochastic modelling and applications to biology. Our staff include medallists of the Australian Mathematical Society and the Australian Academy of Science.”

Mechanical Engineering

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, the school has developed many new and innovative technologies that have made an impact throughout the world. Research is conducted across a diverse and wide range of areas, including fluid mechanics, acoustics and vibrations, combustion, robotics and automation, renewable energy technology, humanitarian engineering, biomechanics and sports engineering and materials and structures. The school received the highest ranking for the quality of its research by the Australian Government. 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.

Research areas

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

- > **Sustainable Energy Technology**
 - Solar-thermal energy
 - Wind energy
 - Wave energy
 - Energy management
- > **Fluid Mechanics and Aerodynamics**
 - Active and passive flow control
 - Bio-fluid and hemodynamics
 - Bluff-body flow
 - Vortex and wake
 - Numerical modelling of flow
 - Atmospheric boundary layer
 - Wind engineering
 - Experimental aerodynamics and flow visualisation
 - Channel and pipe flow
- > **Combustion Technology**
 - Evolution of soot in flames
 - Low emission combustion
 - Combustion research and laser diagnostic
 - Biofuel
- > **Acoustics and Vibrations**
 - Aeroacoustics
 - Active and passive noise and vibration control
 - Micro/Nano-Electro-Mechanical Systems
 - Flow induced vibration
 - Linear and non-linear vibrations
- > **Materials and Structures**
 - Fracture mechanics and failure analysis
 - Corrosion
 - Welding
 - Structural health monitoring
 - Engineering materials
- > **Biomechanics and Sports Engineering**
 - full-body musculoskeletal modelling
 - bone strength and fragility
 - Posture analysis and design
- > **Robotics and Control**
 - Nano-positioning
 - Agriculture automation
 - Smart building
 - Autonomous systems

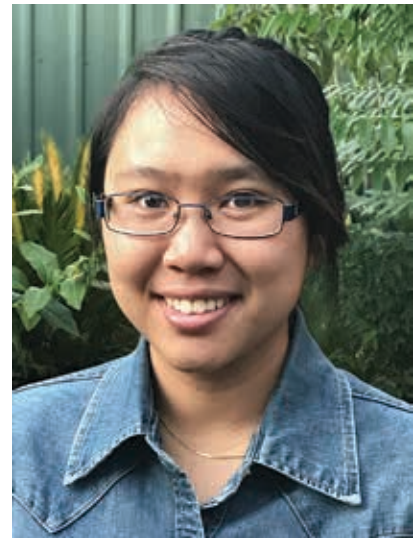
To find a supervisor, submit a research proposal or learn more about these areas of research, visit mecheng.adelaide.edu.au/research or email: info@mecheng.adelaide.edu.au

Postgraduate coordinator

Associate Professor Paul Medwell
E: paul.medwell@adelaide.edu.au

Further information or advice

School of Mechanical Engineering
Engineering South building, Level 1,
North Terrace campus,
The University of Adelaide,
SA, 5005, Australia
T: +61 8 8313 5460
E: info@mecheng.adelaide.edu.au
W: mecheng.adelaide.edu.au



“I chose to study at the University of Adelaide for the opportunity to work with people who are recognised internationally for their research. The supportive environment and access to specialised facilities and equipment also gives me the freedom to explore new ideas and knowledge.”

Ngan Bich Tran

PhD in Mechanical Engineering

Professor G J 'Gus' Nathan

Mechanical Engineering



Fields of research

- > energy
- > concentrating solar thermal
- > combustion
- > laser diagnostics
- > fluid mechanics.

Awards

- > Energy Professional of the Year (2014) The Australian Institute of Energy, SA
- > Discovery Outstanding Researcher Award (2012-14), The Australian Research Council, a fellowship that supports his present position
- > Paul Henderson Prize (2006), The Institution of Mechanical Engineers, for best journal paper
- > Best Industrial Paper (2003) – for the Joint Meeting of the Australian Symposium on Combustion and 8th Australian Flame Days, Monash University, 8-9 Dec. 2003.

Research impact

Professor Nathan is the founding director of the University of Adelaide's Centre for Energy Technology, and recipient of an ARC Discovery Outstanding Researcher Award. With more than \$20m of research funding, he works with energy technologies spanning the combustion of fossil and bio-fuels, concentrated solar thermal, geothermal energy, wind power, energy storage and in hybrid technologies. He works closely with industry, both in developing novel technologies and in identifying and addressing key research challenges, especially those that can be addressed with advanced laser diagnostics. His past technology developments include being principal leader of the Chief Design Team for the award-winning fuel and combustion system for the Sydney 2000 Olympic Relay Torch, and joint leadership of the development of low NO_x combustion technology that has been in ongoing commercial use in rotary cement and lime kilns since 1993. He has published widely, with more than 150 publications in leading journals, 200 in peer-review conferences and 10 patents.

I chose to research in my field because:

I originally chose mechanical engineering because I liked working with mechanical things and also wanted a technical challenge. I fell into energy because my honours supervisor gave me an exciting project involving the development of a novel combustion burner. My honours project was to evolve into a PhD thesis and then into the first of several commercial technologies. In the meantime, my love of wild places took me to many mountains, first in the northern Flinders Ranges and then further afield to Nepal and Alaska. This fostered a desire to make a difference by developing technology that could help to reduce air pollution. As I gained more understanding of the opportunities and challenges to renewable energy, I chose to focus on hybrids between concentrating solar and combustion because I believe this is an important part of the path toward cleaner energy.

My favourite part of being a supervisor is:

The shared excitement of discovering something new together – of breaking new ground and leading the world in doing something for the first time. I also love participating in the journey of transition to the point where I begin to learn as much from students and their work as they do from me.

What makes a successful supervisor and student partnership?

There is no one answer to this. However, the essential ingredient is a mutual commitment to excellence and passion to make a difference. Each student brings their own particular interests and expertise.

Those who are driven to explore new ideas, concepts and understanding, plus a desire to get to the bottom of a problem, will be sure to make a great contribution if given the right guidance and access to resources.

However, to make an outstanding contribution, it is also necessary to go beyond this and engage these students in strong teams of likeminded researchers in the same field – both internally within the University and externally with collaborators and industrial end users. This makes the right environment for outstanding research.

I remain at the University of Adelaide because of the leading team that has been established here with complementary expertise, outstanding facilities and a team-based approach that is truly exceptional. **]**

Why research mechanical engineering at the University of Adelaide?

I remain at the University of Adelaide because of the leading team that has been established here with complementary expertise, outstanding facilities and a team-based approach that is truly exceptional. I consider that we are really making a difference in the world, both in the technology we are developing and the young researchers we are training.

Recent publications

1. Nathan, G.J. Dally, B.B., Alwahabi, Z.T., van Eyk, P.J., Jafarian, M., Ashman, P.J. (2017) "Research challenges in combustion and gasification arising from emerging technologies employing directly irradiated concentrating solar thermal radiation", Invited Topical Review, Proc. Comb. Institute, 36 (2), 2055-2074.
2. Chinnici, A., Xue, Y., Lau, T.C.W., Arjomandi, M., Nathan, G.J. (2017) "Experimental and numerical investigation of the flow characteristics within a Solar Expanding-Vortex Particle Receiver-Reactor", Solar Energy, 141, 25-37
3. Lau, T.C. and Nathan, G.J. (2016) "The effect of Stokes number on particle velocity and concentration distributions in a well-characterised, turbulent, co-flowing two-phase jet, J. Fluid Mech., 809, 72-110.
4. Lim, J., Hu, E., Nathan, G.J., (2016) "Impact of start-up and shut-down losses on the economic benefit of an integrated hybrid solar cavity receiver and combustor", Applied Energy, 164, p.10-20.

Faculty of Health and Medical Sciences

“ The knowledge acquired through my research, especially the personal practice and observation of experts in complex endoscopic procedures, will provide me with a most privileged background for future endeavours. Some of the highlights of being part of such a renowned university include university support, multidisciplinary engagement, eminent professionals and international agreements. ”

Leonardo Zorrón
Cheng Tao Pu

PhD in Medicine

The Faculty of Health and Medical Sciences' focus on educational excellence and innovative research is reflected by the academics and researchers across our schools, disciplines, centres, and institutes.

Our strengths lie in the depth and dedication of our teams, who work to promote better health, wellbeing and disease prevention in Australia and the world. With over 4,000 students, 1,000 staff and 1,800 participating clinical and affiliate practitioners, we have been educating successful students and producing highly relevant research for over a century.

Our learning and teaching programs are designed to develop highly skilled and compassionate professionals in their chosen careers, who aspire to the highest standards of integrity and ethical behaviour. Our graduates and researchers are making a significant impact in health and medical sciences, and are helping people lead healthier lives.

Reasons to conduct research in the Faculty of Health and Medical Sciences

As a research-intensive institution, the University of Adelaide is committed to fostering scholarship and a spirit of discovery and interrogation. In keeping with this ethos, Faculty of Health and Medical Sciences researchers conduct cutting edge, transformative research with the objective of developing new insights in human biology and to deliver real health outcomes to our community. 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 the development of new health policy.

In addition to discovery, our researchers mentor, supervise and train the next generation of researchers. This ensures that all graduates develop advanced skills in research and critical thinking capabilities, which in turn, leads to visionary and transformative advances in knowledge. The prospect of discovery motivates research endeavour and fosters a research culture in all the teaching and learning activities offered by the faculty.

The faculty is guided by key priority areas:

1. Research and research training programs
2. Flagship and core learning and teaching programs
3. Translation of education and research; knowledge into person and place, practice and policy.

The Faculty of Health and Medical Sciences degrees recognise that health is influenced by many factors in our society, and is underpinned by knowledge that ranges from the cultural to the molecular. Our degrees reflect the fact that health care extends beyond the work of doctors, nurses, psychologists, dentists and other health practitioners.

The faculty consistently achieves outstanding outcomes in rankings, with each of our schools being heavily committed to a wide range of exciting and groundbreaking aspects of health research. The diversity and breadth of our research strengths can be explored at: health.adelaide.edu.au/our-research

The Adelaide Health and Medical Sciences building

Opened in early 2017, the Adelaide Health and Medical Sciences (AHMS) building supports more than 1,600 medicine, nursing, public health and dental students, and over 600 University of Adelaide health sciences researchers.

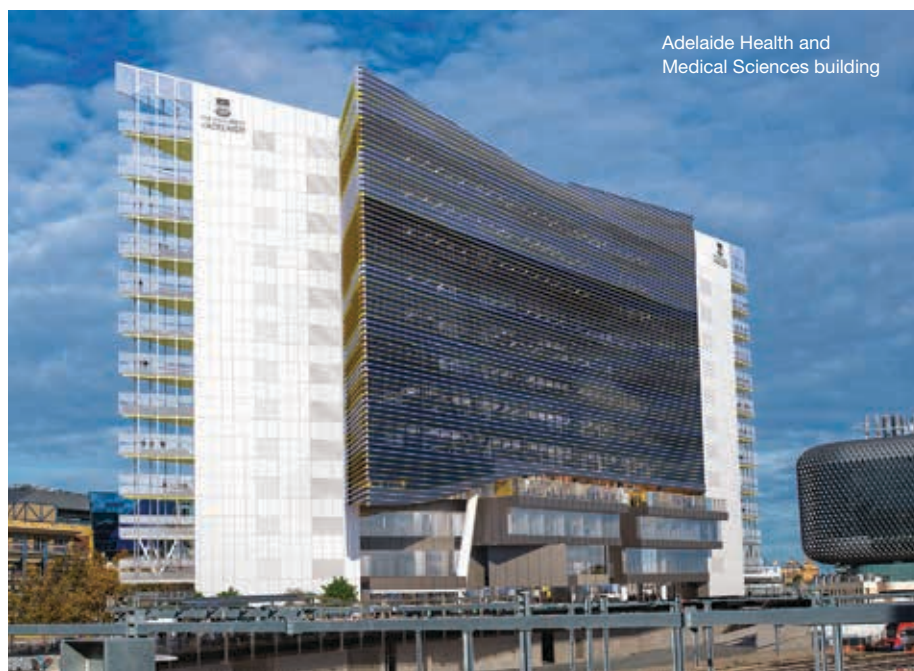
Located in the new South Australian Health and Biomedical Precinct (SAHBP) in the city's West End, the 14-storey, \$246 million building provides staff and students with state-of-the-art facilities and incorporates new teaching styles and the latest technologies, including

simulations and digital platforms. The building represents a new era in Australian medical education, modelled on leading international university hospital precincts.

Co-located with the new Royal Adelaide Hospital (nRAH) and South Australian Health and Medical Research Institute (SAHMRI), the AHMS building will continue to build on the University's more than 130 years of partnerships with Adelaide's principal clinical and scientific institutions. Students, teachers, researchers, clinicians and patients all benefit from working together in a single location.

The Faculty of Health and Medical Sciences contributes nearly half of the University's research, and its impact on the wellbeing of the community continues to be vast. Along with the Adelaide Health and Medical Sciences building, our faculty extends through the SAHBP, Frome Road, North Terrace, The Women's and Children's Hospital, the Lyell McEwin Hospital, the Queen Elizabeth Hospital, and rural and remote areas across South Australia.

For more information about the AHMS building visit: health.adelaide.edu.au/engage/facilities-and-services/adelaide-health-and-medical-sciences-building



Adelaide Health and Medical Sciences building

Dentistry

Reasons to conduct research in Dentistry at the University of Adelaide

- 1 State-of-the-art teaching facilities that harness the most advanced teaching methods, simulators and technology.
- 2 Accredited and clinically focused programs 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 the oldest and most distinguished dental schools in the Australian university sector, and is the only dental school in South Australia.

The school has a renowned history of innovation, quality graduates, and outstanding achievements by a multicultural community of dedicated staff and talented students.

The school offers a range of postgraduate courses, including dental speciality training, masters and PhD programs.

In mid-2017, the Adelaide Dental School and the Adelaide Dental Hospital will relocate to the new Adelaide Health and Medical Sciences (AHMS) building. These new clinical facilities will complement the existing state-of-the-art facilities in the Dental Simulation Clinic, which opened in early 2013.

Research centres

- > Australian Research Centre for Population Oral Health adelaide.edu.au/arcpoh
- > Centre for Orofacial Research and Learning adelaide.edu.au/coral

Research units

- > dental practice education research
- > dental statistics and research
- > Indigenous oral health
- > Oral Health Promotion Clearinghouse
- > health services research
- > Centre of Research Excellence in Primary Oral Health Care
- > Centre of Research Excellence in Dental Health Services Research.

Research areas

Adelaide Dental School staff are active researchers and supervisors in a variety of areas, including:

- > craniofacial biology
- > dental education
- > endodontics and pulp biology
- > forensic odontology
- > oral and maxillofacial surgery
- > oral microbiology and immunology
- > oral pathology
- > orthodontics
- > paediatric dentistry
- > periodontics
- > restorative dentistry.

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

Further information or advice

Adelaide Dental School
Adelaide Health and Medical Sciences building,
The University of Adelaide, SA 5005, Australia
T: +61 8 8313 5256
E: fhsresed@adelaide.edu.au
W: health.adelaide.edu.au/our-research



“ I am conducting research in nanoengineered titanium implants for treatment of craniosynostosis, a developmental disorder characterised by the premature fusion of skull sutures in children. During my research, I have attended national and international conferences to present my work; gained hands-on experience with live animal models/human cell cultures; and received guidance and support at every step of candidature from my supervisory and administrative panel. The skills from my multidisciplinary PhD project will provide me with the versatility and freedom to pursue a career in my field of choice.”

Manpreet Bariana
PhD in BioEngineering/Nanomedicine

Supervisor Spotlight

Professor Lisa Jamieson

Indigenous oral health and inequalities



Awards

- > NHMRC Senior Research Fellowship
- > Numerous grants from NHMRC

Research impact

Increasing the profile of poor oral health experienced by Indigenous groups, both in Australia and at an international level.

Students I am currently supervising:

Sathvika Justine (Indigenous public health, nutrition; PhD), Eleanor Parker (Indigenous dental; PhD), Marko Milosevic (Indigenous dental; DClinDent).

I chose to research in my field because:

I was aware of the inequities experienced by Indigenous groups at an international level and of the importance of conducting top-quality research as a way of mitigating such disparities.

My favourite part of being a supervisor is:

Working with such varied people from a range of backgrounds, cultures and perspectives. All have so much to offer in the Indigenous oral health research space.

What makes a successful supervisor and student partnership?

Listening, displaying respect, and having a deep passion for both the specific research questions of the project and of the field at a broader level.

Why research Indigenous oral health at the University of Adelaide?

Our students have access to world class researchers in dental public health and oral epidemiology more generally; and a fantastic supportive environment in the wider University context.

Projects you may be interested in:

Discrimination and oral health; critical reviews in experience of dental disease; connections between periodontal health and general health.

My students have gone on to:

One student has become co-director of the Indigenous Oral Health Unit; others work in specialised fields such as paediatrics, orthodontics, and special needs.

Recent publications

1. Jamieson LM. Editorial Special Issue, Indigenous Oral Health. J Health Care Poor Underserved. 2016;27:vi-vii.
2. Jamieson L, Skilton M, Maple-Brown L, Kapellas K, Askie L, Hughes J, Arrow P, Cherian S, Fernandes D, Pawar B, Brown A, Boffa J, Hoy W, Harris D, Mueller N, Cass A. Periodontal disease and chronic kidney disease among Aboriginal adults; an RCT. BMC Nephrol. 2015;16:181
3. Jamieson LM, Parker EJ, Broughton J, Lawrence HP, Armfield JM. Are Stage of Change constructs relevant for subjective oral health in a vulnerable population? Community Dent Health. 2015;32:111-6.
4. Jamieson LM, Parker EJ, Roberts-Thomson KF, Lawrence HP, Broughton J. Self-efficacy and self-rated oral health among pregnant Aboriginal Australian women. BMC Oral Health. 2014;14:29.
5. Jamieson LM, Divaris K, Parker EJ, Lee JY. Oral health literacy comparisons between Indigenous Australians and American Indians. Community Dent Health. 2013;30:52-57.
6. Jamieson LM, Do LG, Bailie RS, Sayers SM, Turrell G. Associations between area-level disadvantage and DMFT among a birth cohort of Indigenous Australians. Aust Dent J. 2013;58:75-81.
7. Jamieson LM, Steffens M, Paradies YC. Associations between discrimination and dental visiting behaviours in an Aboriginal Australian birth cohort. Aust N Z J Public Health. 2013;37:92-3.

“ I chose to research in my field because of the inequities experienced by Indigenous groups at an international level and... the importance of conducting top-quality research as a way of mitigating such disparities. ”

Medicine

Reasons to conduct research in Medicine at the University of Adelaide

- 1 Focus on creative solutions to health problems through a vibrant culture involved in discovery, innovation, cutting-edge research, and engaging with clinicians and health professionals to deliver best patient care.
- 2 A philosophy centred on preparing the student for lifetime research pathways, with an international network of academic, clinical and industry collaborative partners.
- 3 A strong focus on addressing global challenges creates a highly stimulating setting for students interested in changing the world.

The Adelaide Medical School at the University of Adelaide has a strong vision for the future and a vibrant history. It offers a stimulating research environment; excellent facilities; supervisors who are respected internationally for their work; and partnerships with some of South Australia's great medical research institutions. Students who choose to study a higher degree by research in the Adelaide Medical School will find the time they spend with us will be one of the most exciting and satisfying periods of their life. Many of our graduates go on to win local, national and international awards, including Nobel Prize winners Howard Florey for his work in developing penicillin and, more recently, J. Robin Warren for his contribution to medicine. The school comprises almost 1,800 academic staff and clinical titleholders across a wide range of clinical interests, with a supportive and effective research agenda. At any one time there are over 300 students enrolled in honours, masters and PhD programs.

The Adelaide Medical School strives to continually maintain its position as one of Australia's medical research powerhouses. When students join the Adelaide Medical School, they become part of a research community that has a great past – and a bright future.

About the disciplines

The disciplines within the Adelaide Medical School offer many dynamic research-intensive environments that foster excellence in interdisciplinary research and teaching, and nurture the development of our students to reach their full potential. It provides the foundation for careers in medicine, dentistry and the allied health sciences, by investigating and understanding:

- > functions of the body
- > causes and mechanisms of disease and its consequences



“The best part of my University experience has been the research environment I have been part of. I have been able to experience a cohesive, hard-working but enjoyable, supportive research atmosphere which has allowed me to excel in my studies and reach my full potential.”

Rebecca Wilson PhD in Medicine

- > factors influencing healthy ageing
- > cardiovascular studies
- > how drugs may be used to improve health and quality of life
- > reproductive biology and medicine
- > maternal, fetal and child health.

Research areas

Staff in the Adelaide Medical School are active researchers and supervisors in a variety of areas, including:

- > cancer biology and clinical oncology
- > cardiac, respiratory and vascular health
- > nutrition and metabolic health
- > neuroscience, behaviour and brain health
- > ageing, frailty and mobility
- > musculoskeletal health
- > oral health
- > surgical and health systems innovation
- > fertility and conception
- > pregnancy and birth
- > early origins of health
- > child and adolescent health
- > immunology and infection
- > Indigenous and disadvantaged health
- > translational health outcomes
- > novel therapeutics
- > men's health.

For more information about research areas at the Adelaide Medical School, please visit: health.adelaide.edu.au/medicine/research/

Research institutes

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

Research centres

- > Adelaide Centre for Neuroscience Research
adelaide.edu.au/neuroscience
- > Centre for Orthopaedic and Trauma Research
adelaide.edu.au/ortho-trauma
- > Centre for Heart Rhythm Disorders
adelaide.edu.au/chrd
- > Centre for Personalised Cancer Medicine
adelaide.edu.au/cancer-medicine
- > Centre for Research Excellence in Translating Nutritional Science to Good Health
adelaide.edu.au/cre-nutrition
- > Centre for Clinical and Experimental Transplantation
- > DASSA WHO Collaborating Centre
health.adelaide.edu.au/medicine/facilities/dassa
- > Freemasons Foundation Centre for Men's Health
adelaide.edu.au/menshealth
- > Vascular Research Centre
sahmirresearch.org/our-research/themes/heart-health/groups/vascular-research-centre
- > Clinical Psychiatry Research Centre
health.adelaide.edu.au/psychiatry/research_centres/clinical_psychiatry
- > Pain and Anaesthesia Research Clinic
adelaide.edu.au/painresearch
- > Translational Mind and Brain Centre
health.adelaide.edu.au/psychiatry/research_centres/translational
- > Psychiatric Neuroscience Centre
health.adelaide.edu.au/psychiatry/research_centres/psychiatric_neuroscience
- > The Health Observatory
basilhetzelinstitute.com.au/research/research-theme/chronic-disease/the-health-observatory/

Further information or advice

Adelaide Medical School
Adelaide Health and Medical Sciences building,
The University of Adelaide, SA 5005, Australia
T: +61 8 8313 8163
E: fhresed@adelaide.edu.au
W: health.adelaide.edu.au/our-research

Dr Peter Psaltis

Heart Health



Awards:

Research Awards 2011 onwards (not including grants and scholarships)

- 2016 Best Research Prize, International Congress of Lipids and Atherosclerosis in South Korea
- 2013 Top Ten Abstract, Gordon Research Conference - Atherosclerosis, Stowe, Vermont, USA
- 2011 Early Career Investigator Award (Inaugural), Arteriosclerosis Thrombosis and Vascular Biology Council, American Heart Association Scientific Sessions Meeting, Orlando, FL, USA,
- 2011 Best Poster Presentation Award, Mayo Research Fellows' Association, Mayo Clinic, Rochester, MN, USA
- 2011 Top Ten Abstract, Gordon Research Conference - Atherosclerosis, Newport, RI, USA
- 2009 The Ross Wishart Memorial Award for the Best Young Investigator, Australian Society of Medical Research (ASMR), Adelaide

Research Impact:

During my post-doctoral fellowship at Mayo Clinic, USA, I discovered a population of adventitial macrophage progenitor cells (AMPCs) that resides locally in the outer layer of arteries and gives rise to macrophages. Macrophages are a type of immune cell that play key roles in the development of vascular diseases, most notably atherosclerosis, which is the leading cause of heart attacks and strokes. Our ongoing research, conducted at the University of Adelaide and SAHMRI, has shed further light on the characteristics of AMPCs, their developmental origins and their involvement in maintaining normal vascular health and contributing to atherosclerosis. This work has contributed to a greater understanding of the vascular adventitial stem cell niche and the importance of the adventitia in regulating arterial health and disease.

I chose to research in my field because:

As the major cause of heart attack (myocardial infarction) and stroke, atherosclerosis is a leading cause of mortality and morbidity worldwide. Despite tremendous advances in its management, it all too often still has devastating consequences. As an Interventional Cardiologist who treats many patients with coronary atherosclerosis, I recognise the critical need for us to better understand its pathogenesis, and develop more effective treatments in the hope of one day eradicating it.

My favourite part of being a supervisor is:

Nothing beats the excitement of watching my students experience the joys of new scientific discoveries, or the pride I feel as they hone

their research acumen and laboratory skills, and build confidence in their writing and presentation style. To help them ultimately reap the rewards after so much effort is incredibly satisfying, as is the privileged opportunity to mentor and support them through their personal and professional development.

What makes a successful supervisor and student partnership?

The cornerstones of a successful supervisor-student partnership are mutual respect, care and honesty. The relationship needs to be just that: a partnership, in which both members realise that they depend on each other to ensure their individual and combined successes. The supervisor's role is also to set a supportive and nurturing framework within which the student develops and matures in many different facets of their professional life.

Why undertake heart and vascular research at the University of Adelaide?

This is a very exciting time for academic and clinical medicine at the University of Adelaide, with the new Health and Biomedical Research Precinct in Adelaide nearing completion. Proximity to the three superb buildings (the new Royal Adelaide Hospital, the South Australian Health and Medical Research Institute and the new Adelaide Health and Medical Sciences building) will provide a unique interface between the three 'shields' of medicine: namely patient health care, research and teaching. From a research perspective, this enables wonderful opportunities for performing bench-to-bedside translational studies.

In the field of heart and vascular research, our group is very well placed to adopt this translational model of study that spans the spectrum of fundamental and clinical science. In addition, our group is constantly building cross-thematic collaborations with other disciplines and groups at the University of Adelaide and SAHMRI, to broaden and deepen our approaches to researching cardiovascular disease, the leading causing of mortality and morbidity around the world.

Projects new students may be interested in:

1. Revisiting the origins of macrophages in atherosclerosis, through a new paradigm of adventitial macrophage progenitor cells. Available as: Honours or PhD project.
2. Understanding the nature, regulation and importance of adventitial mesenchymal stem cells in healthy and diseased arteries. Available as: Honours or PhD project.
3. Exploring the therapeutic potential of bone marrow mesenchymal stem cells (BM-MSCs)

“ Nothing beats the excitement of watching my students experience the joys of new scientific discoveries, or the pride I feel as they hone their research acumen and laboratory skills, and build confidence in their writing and presentation style. ”

in stable and unstable atherosclerosis. Available as: Honours or PhD project

4. Can we pacify coronary plaque inflammation with colchicine? Available as: PhD project

Selected recent publications:

1. Psaltis PJ, Carbone A, Nelson AJ, Lau DH, Jantzen T, Manavis J, Williams K, Itescu S, Sanders P, Gronthos S, Zannettino AC, Worthley SG. Reparative effects of allogeneic mesenchymal precursor cells delivered transendocardially in experimental nonischemic cardiomyopathy. *JACC Cardiovasc Interv* 2010;3(9):974-83.
2. Psaltis PJ, Paton S, See F, Arthur A, Martin S, Itescu S, Worthley SG, Gronthos S, Zannettino ACW. Enrichment for STRO-1 expression enhances the cardiovascular paracrine activity of human bone marrow-derived mesenchymal cell populations. *Journal of Cellular Physiology* 2010;223(2):530-40.
3. Psaltis PJ, Carbone A, Leong DP, Lau DH, Nelson AJ, Kuchel T, Jantzen T, Manavis J, Williams K, Sanders P, Gronthos S, Zannettino AC, Worthley SG. Assessment of myocardial fibrosis by endoventricular electromechanical mapping in experimental nonischemic cardiomyopathy. *Int J Cardiovasc Imaging* 2011; 27(1):25-37.
4. Psaltis PJ, Harbuzariu A, Delacroix S, Witt TA, Holroyd EW, Spoon DB, Hoffman SJ, Pan S, Kleppe LS, Mueske CS, Gulati R, Sandhu GS, Simari RD. Identification of a monocyte-predisposed hierarchy of hematopoietic progenitor cells in the adventitia of postnatal murine aorta. *Circulation*. 2012;125:592-603.
5. Psaltis PJ, Peterson KM, Xu R, Franchi F, Witt T, Chen IY, Lerman A, Simari RD, Gambhir SS, Rodriguez-Porcel M. Noninvasive monitoring of oxidative stress in transplanted mesenchymal stromal cells. *JACC Cardiovasc Imaging*. 2013;6:795-802.

The Robinson Research Institute

Reasons to undertake research within the Robinson Research Institute

- 1 Researchers are internationally renowned for their ground-breaking research and translation into clinical care and health policy.
- 2 Translate research discoveries into improved clinical care and policy to deliver new technologies, treatments and therapies for the health of all children and families, across generations and global communities.
- 3 Innovative research discoveries made by Robinson Research Institute members are being developed with commercial partners to transform medical practice and the health of communities.

The Robinson Research Institute is a collective of internationally renowned researchers in human reproduction, pregnancy and child health at the University of Adelaide.

The institute concentrates on the early stages of life to improve the health and wellbeing of children and families over the life course and across generations, in Australia and around the world.

Tackling the earliest phases of life is the key to solving many of the major health conditions affecting Australians and people across the globe.

Focusing on conception, pregnancy, and the infant and child will deliver great dividends in community and population health – raising healthy children from the start and reducing chronic disease development later in life.

Students can be part of the institute's world leading research by undertaking projects in the following areas.

Research areas

Staff in the Robinson Research Institute are active researchers and supervisors in a variety of areas.

- > fertility and conception
- > reproductive and childhood cancers
- > preventing and alleviating infertility
- > pregnancy and birth
- > understanding and optimising fetal growth
- > preventing preterm birth
- > early origins of health
- > maternal and childhood obesity
- > understanding origins of allergy
- > maximising brain development
- > child and adolescent health
- > preventing and reducing disability in children
- > pioneering interventions to improve the health of children.

To find a supervisor, visit:

adelaide.edu.au/robinson-research-institute/postgrad-opportunities/

Further information or advice

Robinson Research Institute

55 King William Road, Ground Floor,
North Adelaide, SA 5006, Australia

T: +61 8 8313 1342

E: robinsonresearch@adelaide.edu.au

W: adelaide.edu.au/robinson-research-institute/



Nursing

Reasons to conduct research in Nursing at the University of Adelaide

- 1 Energetic and enthusiastic group of 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 Cutting edge and clinical skill simulation facilities, and strong collaborations with hospitals, local and global industry partners, and other community/residential practitioners.

The Adelaide Nursing 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.

The Adelaide Nursing School has a bright future with a large investment in new facilities in the Adelaide Health and Medical Sciences building. The school is located within the South Australian Health and Biomedical Precinct (SAHBP) next to the new Royal Adelaide Hospital (nRAH) and the South Australian Health and Medical Research Institute (SAHMRI).

We believe it is essential for nursing education to focus on the real world of practice, and to generate strategies that will improve the health of individuals and communities through nursing knowledge and advanced nursing practice. We are closely aligned with clinical practice in the hospital, community and residential care; and this forms the focus for our research. Students in the school have access to staff who are also leading scholars and clinicians.

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

Research within Adelaide Nursing School is focused on four programs comprising:

- > Knowledge Translation, which investigates how to get research evidence into clinical practice.
- > Fundamentals of Care, which seeks to understand how the fundamentals of care are delivered to patients within health systems.
- > Professional Practice, which conducts research on the contemporary role of the nurse, nursing workforce, and nursing at the interface with the education and health care systems and interdisciplinary teams.
- > Healthy Ageing, which focuses on advancing knowledge around the promotion and maintenance of health in our ageing population to keep people actively engaged in their community.

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

Further information or advice

Adelaide Nursing School

Adelaide Health and Medical Sciences building
The University of Adelaide, SA 5005, Australia
T: + 61 8 8313 3595
E: fhsresed@adelaide.edu.au
W: health.adelaide.edu.au/our-research



“Adelaide Nursing School researchers are committed to helping you achieve your goals. As a Higher Degree by Research student, you are fully supported to become a unique and competitive researcher.”

Hussamaldeen Sabyani
Doctor of Nursing

Professor Gill Harvey

Nursing



Fields of research

- > Knowledge translation
- > Implementation science
- > Quality improvement

Awards:

- > Recipient of the Florence Nightingale Foundation 'Edith Cavell Travel Scholarship' in 2000.

Research impact

With colleagues, including Professor Alison Kitson, Dean of Adelaide Nursing School, we developed a framework to guide implementation of research into practice, known as the Promoting Action on Research Implementation in Health Services (PARIHS). This is one of the most widely used implementation frameworks in health care and has been used by many different groups in many different countries. We have recently revised and updated it to produce the integrated, or i-PARIHS, framework which we are testing in a number of studies.

In my own research, I have applied the framework to help improve the identification and management of patients with chronic kidney disease in primary care, and in a current study to implement a clinical guideline for the management of deteriorating patients in acute care.

Students I am currently supervising:

Louise Clarke, Adrienne Lewis, Elizabeth Mitchell (all University of Adelaide) and Alison Laycock (Menzies School of Health Research).

I chose to research in my field because:

I really enjoy working at the interface between research and patient care. My research involves finding the best ways to translate new knowledge into better practice and improved patient care. Seeing these improvements in the real world is hugely satisfying.

My favourite part of being a supervisor is:

Learning with and from students and seeing their journey as they develop knowledge, skills and confidence through their study.

Why conduct research in nursing at the University of Adelaide?

We have a team of great researchers working in the field of knowledge translation and implementation, who are all committed to making a difference through applying health research in practice. This involves

working closely with a wide range of people, including local communities and community organisations, patients and carers, clinicians, managers and other researchers.

Projects new students may be interested in:

Developing assessment and evaluation measures to use with the i-PARIHS framework and guide the knowledge translation process; examining facilitation as a strategy for knowledge translation; exploring de-implementation to reduce ineffective and inappropriate health care; engaging with stakeholders to develop more integrated approaches to knowledge translation.

My students have gone on to:

Become experienced researchers in the field of knowledge translation; health care clinicians and managers with a better understanding of how to implement evidence-based practice.

Recent publications

1. Harvey G, Lynch E (2017) Enabling continuous quality improvement in practice: the role and contribution of facilitation. *Frontiers in Public Health*, 5:27.
2. Mudge AM, Banks MD, Barnett AG, Blackberry I, Graves N, Green T, Harvey G, et al. (2017) CHERISH (Collaboration for Hospitalised Elders Reducing the Impact of Stays in Hospital): Protocol for a multi-site improvement program to reduce geriatric syndromes in older inpatients. *BMC Geriatrics*, 17:11
3. Eldh AC, Almost J, DeCorby-Watson K, Gifford W, Harvey G, et al. (2017) Clinical interventions, implementation interventions, and the potential greyness in between - a discussion paper. *BMC Health Services Research*, 17:16
4. Kislov R, Humphreys J, Harvey G. (2016) How do managerial techniques evolve over time? The distortion of 'facilitation' in healthcare service improvement. *Public Management Review*, online first, doi: 10.1080/14719037.2016.1266022
5. Lewis A, Kitson A, Harvey G. Improving oral health for older people in the home care setting: An exploratory implementation study. *Australasian Journal on Ageing*. 2016; 35(4): 273-280.
6. Kitson A, Harvey G. Methods to succeed in effective knowledge translation in clinical practice. *Journal of Nursing Scholarship*. 2016;48(3):294-302.
7. Tsang JY, Blakeman T, Hegarty J, Humphreys J, Harvey G. Understanding the implementation

“My research involves finding the best ways to translate new knowledge into better practice and improved patient care. Seeing these improvements in the real world is hugely satisfying.”

of interventions to improve the management of chronic kidney disease in primary care: a rapid realist review. *Implementation Science*. 2016;11(47).

8. Harvey G, Kitson A PARIHS revisited: From heuristic to integrated framework for the successful implementation of knowledge into practice. *Implementation Science*. 2016;11(33).
9. Rycroft-Malone J, Burton CR, Wilkinson J, Harvey G, McCormack B, Baker R, Dopson S, Graham I D, Stanisewska S, Thompson C, Ariss S, Melville-Richards L, Williams L. Collective action for implementation: a realist evaluation of organisational collaboration in healthcare. *Implementation Science*. 2016;11(17).
10. Harvey G, McInnes E (2015) Disinvesting in Ineffective and Inappropriate Practice: The Neglected Side of Evidence-Based Health Care? *Worldviews on Evidence Based Nursing*, 12(6):309-312.
11. Fitzgerald L, Harvey G (2015) Translational networks in healthcare? Evidence on the design and initiation of organizational networks for knowledge mobilization. *Social Science and Medicine*, 138: 192-200.
12. Harvey G, Oliver K, Humphreys J, Rothwell K, Hegarty J (2015) Improving the identification and management of chronic kidney disease in primary care: lessons from a staged improvement collaborative. *International Journal for Quality in Healthcare*, 27(1): 10-16.
13. Harvey G, Jas P, Walshe K (2015) Analysing organisational context: case studies on the contribution of absorptive capacity theory to understanding inter-organisational variation in performance improvement. *BMJ Quality and Safety*, 24:48-55.

Public Health

Reasons to conduct research in Public Health at the University of Adelaide

- 1 Research at the School of Public Health has demonstrated a strong track record in preventing disease and promoting health in populations through advancing innovative ideas that change individual behaviours, public policies, and health care practices.
- 2 The school consistently produces specialist leaders in a diverse range of health care and policy fields ranging from epidemiological studies to economic modelling and health technology assessment, health impacts of climate change and broad ranging fields of community care.
- 3 Work closely with government, non-government organisations and industry to ensure that research and community engagement remains focused on identifying, analysing and resolving 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

The School of Public Health conducts diverse quantitative and qualitative research in a range of areas concerned with:

- > early child health and development
- > deliberative community engagement
- > life course health
- > environmental health and climate change
- > occupational health
- > Indigenous health
- > health economics and evaluation
- > evidence-based health policy
- > health system planning
- > genetics and public health
- > biostatistical methodology.

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

Further information or advice

School of Public Health
Adelaide Health and Medical Sciences building
The University of Adelaide, SA 5005, Australia
T: +61 8 8313 4131
E: fhsresed@adelaide.edu.au
W: health.adelaide.edu.au/our-research



“I feel very fortunate to have been guided by supervisors who are renowned researchers in the field of public health. I trust that with the support from the University and my supervisors, I will stand tall among many global public health leaders working towards a better future.”

Dr Adyya Gupta
PhD in Public Health

Supervisor Spotlight

Professor John Lynch

Public Health

Fields of research

- > early childhood health and development
- > social disadvantage
- > pragmatic RCTs and natural experiments
- > using linked administrative data
- > population health information systems
- > using data for systems change.

Awards

- > Thomson Reuters World High Cite Scientist (2014, 2015, 2016)
- > Fellow Australian Academy Health and Medical Sciences (2015, 2016, 2017)
- > NHMRC Australia Fellow (2009–2014)
- > Canada Research Chair (2005–2008)
- > Honorary Doctorate in Medicine from University of Copenhagen (2007).

Projects you may be interested in:

- > interventions to reduce inequalities in child healthy development
- > using linked data to monitor population health and interventions
- > screening for poor child development
- > understanding population trajectories of healthy child development
- > evaluation of a nurse-led home visiting program
- > cognitive and non-cognitive characteristics, child development, health behaviours and social trajectories of human capability formation.

My students have gone on to:

I have mentored over 20 postdoctoral research fellows and supervised more than 30 PhD students and many masters students in epidemiology and public health. They all successfully completed their programs and



more than 90 per cent of those students remain active in public health research in academia, government and non-government organisations. I currently supervise eight postdocs and five PhD students.

Recent publications

I have published more than 300 papers in all of the leading medical, epidemiology and public health journals. This work has received more than 52,000 Google Scholar citations with an H-Index of 88.



The Joanna Briggs Institute

Reasons to conduct research in the Joanna Briggs Institute, at the University of Adelaide

- 1 Global reputation for excellence and innovation in systematic review methodology, knowledge translation, implementation of best practice and collaboration.
- 2 Researchers are recognised for international leadership in the theory, methodology and applied methods for evidence based health care research across medicine, surgery and the allied health professions.
- 3 Students have access to the knowledge, resources and publication power of a global collaboration of academics specialising in evidence-based practice.

The Joanna Briggs Institute (JBI) is an international not-for-profit, research and development centre within the Faculty of Health and Medical Sciences at the University of Adelaide.

- > JBI offers dynamic learning, research opportunities, and a collegial experience that extends well beyond the classroom.
- > JBI engages practitioners and policymakers across the health sciences and combines research expertise with high-impact scholarship and opportunities for students locally and internationally.
- > JBI has a multidisciplinary academic workforce and seeks to engage health professionals from across all disciplines to develop skills and advanced knowledge and understanding for evidence-based health care.

The institute specialises in higher degree by research programs and provides students with the skills, tools and resources for systematic reviews and implementation studies that are underpinned by internationally recognised methodologies and methods.

Research areas

Building on the Joanna Briggs Institute model of evidence-based health care, and using a comprehensive suite of automated online data collection and analysis systems, the research teams at JBI design and conduct projects for evidence-based health care that incorporate:

- > synthesising evidence: systematic reviews of global evidence
- > situational analyses: implementation planning for policy and practice-based impact
- > investigating gaps: identifying and confirming future research priorities
- > conducting evidence implementation/ utilisation: embedding best practice at the point of care.

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

Further information or advice

Joanna Briggs Institute

T: +61 8 8313 4880

E: jbi@adelaide.edu.au

W: health.adelaide.edu.au/jbi/

W: joannabriggs.org

Associate Professor Zoe Jordan

Communication Science



Fields of research

- > translational health science
- > communication science
- > international collaboration
- > evidence-based health care.

Awards

- > University of Adelaide Doctoral Research (Gold Medal Award)
- > Go8-C9 Research and Academic Leadership Executive Shadowing Program.

Research impact

My interests relate to contemporary approaches to international communication and collaboration, with particular reference to the emerging interrelationship and convergence of communication and culture in the context of a global society. I am also interested in translational science and closing the gap between research and practice.

I chose to research in my field because:

I want to make a meaningful contribution to the community in which I live. I believe the effective translation of evidence into practice can indeed contribute to improved health outcomes in the community.

My favourite part of being a supervisor is:

As a supervisor I am in a unique and privileged position where I have an opportunity to learn about student interests across a diverse, multidisciplinary spectrum and to foster a desire in others for lifelong learning.

What makes a successful supervisor and student partnership?

The ability to communicate effectively with each other and be organised.

Why conduct translational research at the University of Adelaide?

The Faculty of Health and Medical Sciences at the University of Adelaide has made translational science a priority alongside research and learning and teaching. The end result is a dynamic, innovative, multidisciplinary

approach to research translation that is unique in the world. There is a wealth of expertise and international experience in this field within the faculty, making it a ground breaking place to work and study.

Projects you may be interested in:

Any areas relating to communication science, international collaboration, evidence-based practice, leadership or health.

Recent publications

1. Jordan, Z (2016) The role of empathy in the ecology of international collaboration. *Int J Evid Based Healthc* 14(4):140-141
2. Brook A, Liversidge HM, Wilson D, Jordan Z, Harvey G, Marshall RJ and Kitson A (2016) Health research, teaching and provision of care: applying a new approach based on complex systems and a Knowledge Translation Complexity Network model, *International Journal of Design & Nature and Ecodynamics* (in press)
3. Harvey, G., Marshall, R. J., Jordan, Z., and Kitson, A. L. (2015). Exploring the Hidden Barriers in Knowledge Translation. *Qualitative Health Research*, 25(11), 1506-1517. doi:10.1177/1049732315580300
4. Jordan Z, McArthur A and McMillan M (2014) Stakeholder engagement: the role of tacit knowledge and value statements in translational science, Pearson A (ed). Lippincott, Williams and Wilkins, Philadelphia, USA
5. Pearson, A, Jordan, Z, Lockwood, C and Aromataris, A (2014) Notions of quality and standards for qualitative research reporting, *International Journal of Nursing Practice* (pre-publication)
6. Munn, Z, Jordan, Z, Pearson, A, Murphy, F, Pilkington D and Anderson A (2014) Patient anxiety and satisfaction in an MRI department: initial results from an action research study, *J Med Imaging Radiat Sci* <http://dx.doi.org/10.1016/j.jmir.2014.07.006> [in press]
7. Stern C, Jordan Z and McArthur A (2014) Developing a review question and inclusion criteria, *American Journal of Nursing*, 114(4): 53-56

“ My interests relate to contemporary approaches to international communication and collaboration, with particular reference to the emerging interrelationship and convergence of communication and culture in the context of a global society. ”

Psychology

Reasons to conduct research in Psychology at the University of Adelaide

- 1 Range of accredited pathways through unique career programs leading to registration as a psychologist.
- 2 Research across a variety of specialties, with research strengths spanning health, disability and lifespan development of cognition and brain, and social and organisational psychology.
- 3 Complementing the exceptional academic environment, the school operates 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. With academics active in research, dynamic students, teaching clinics and practices, our vibrant community fosters high-quality research, teaching and learning. The school's research strengths span several core areas of psychological inquiry and it 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.

Research areas

The research activities within the School of Psychology fall within three overarching areas:

- > brain and cognition

- > social and organisational health
- > disability and lifespan development.

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

Further information or advice

School of Psychology
Hughes building,
Level 4, North Terrace campus
The University of Adelaide, SA 5005, Australia
T: +61 8 8313 5693 (country and interstate callers toll free on 1800 061 459)
W: health.adelaide.edu.au/our-research
E: fhsresed@adelaide.edu.au

Supervisor Spotlight

Professor Paul Delfabbro

Psychology



Fields of research

- > behavioural addictions
- > child protection
- > risk-taking and decision making

Awards

In 2011, along with Dr Daniel King, I was the recipient of one of only 11 Thomson-Reuters citation awards (for Social Science).

Research impact

My work and that of my students is well cited and often useful for informing state government policy. For example, recent research undertaken with Ms Catia Malvaso was used in the South Australian Government's Nyland Royal Commission.

Students I am currently supervising

Some of my HDR students include: Catia Malvaso; Denholm Aspy; Jennifer Arthur; Sze-Yan Cheung; Tania Plueckhahn.

I chose to research in my field because

My research areas provide opportunities to apply theoretical concepts in psychology to practical issues of relevance to the community. I have a particular interest in studying real life data and understanding research problems using different research strategies.

My favourite part of being a supervisor is:

The best part of being a supervisor is observing the personal and professional growth of my students.

What makes a successful supervisor and student partnership?

My most successful research collaborations have involved students with similar working styles and attitudes towards research. Effective and productive high-degree research comes from having clear and realistic goals, a consistent dedication to the project, and the ability to partition each part into achievable tasks.

Why conduct research in psychology at the University of Adelaide?

The University of Adelaide has a vibrant research environment that attracts world-class students with a genuine interest in theoretically informed studies with relevance to the Australian community.

Projects new students may be interested in

I am developing a new program of research relating to online risk taking, which specifically focuses on the psychological factors that make the young vulnerable to online abuse.

My students have gone on to

DECRA fellowships and postdoctoral positions; clinical psychology and government policy.

Recent publications (2016 onwards)

1. Delfabbro, P.H., and King, D. (2017, Accepted 10/1/2017). Gambling is not a capitalist conspiracy: A commentary on literature on the 'industry state gambling complex'. *International Gambling Studies*.
2. Arthur, J., and Delfabbro, P.H. (2016, in press). Day Traders in South Australia: Similarities and Differences with Traditional Gamblers. *Journal of Gambling Studies*
3. Malvaso, C., Delfabbro, P.H., and Day, A. (2016, in press). Child maltreatment and criminal convictions

in youth: The role of gender, ethnicity and placement experiences in an Australian population. *Children and Youth Services Review*

4. Malvaso, C., Delfabbro, P.H., and Day, A. (2016, in press). Maltreatment history and juvenile justice involvement: A longitudinal examination of youth in Australia. *Child Abuse and Neglect*.
5. Forrest, C., King, D., and Delfabbro, P.H. (2016, in press). Maladaptive cognitions predict changes in problematic gaming in highly-engaged adults: A 12-month longitudinal study. *Addictive Behaviors*
6. Arthur, J., Williams, R., and Delfabbro, P.H. (2016, in press). The Conceptual Relationship between Gambling, Investing, and Speculation. *Journal of Behavioral Addictions*.
7. Delfabbro, P.H., Thomas, A., and Armstrong, A. (2016, in press). Observable indicators and behaviours for the identification of problem gamblers in venue environments. *Journal of Behavioral Addictions*.
8. King, D., and Delfabbro, P.H. (2016, in press). The cognitive psychopathology of Internet gaming disorder in adolescence. *Journal of Abnormal Child Psychology*
9. Malvaso, C., Delfabbro, P.H., Mills, H., and Hackett, L. (2015, in press). Service approaches to young people with complex needs leaving out-of-home care. *Child Care in Practice*.
10. Forrest, C., King, D., and Delfabbro, P.H. (2016). The measurement of maladaptive cognitions underlying problematic video-game playing among adults. *Computers in Human Behavior*, 2, 399-405.



Faculty of the Professions

“I believe Adelaide is the perfect place to study wine. The University of Adelaide offers courses in viticulture, sensory studies and wine marketing to name a few. The wine regions of the Barossa Valley and McLaren Vale are easy drives from the city and provide many opportunities to enhance your learning experience.”

Daigo Okawa
Master of Wine Business

The Faculty of the Professions engages in a wide variety of exciting research across its many disciplines. With the knowledge revealed through that research influences public discussion, debate and policy formation, and explores the ways in which those outcomes affect people, locally, nationally and globally.



The Faculty of the Professions takes great pride in the excellence of its research. The learning we foster in the Faculty is directly shaped by the needs of the professions and disciplines we serve, locally, nationally, and globally.

The Faculty is comprised of four schools

- > Architecture and Built Environment
- > The Adelaide Business
- > School of Economics
- > Adelaide Law School

Research centres

- > Centre for International Economic Studies
- > Entrepreneurship, Commercialisation and Innovation Centre
- > Executive Education
- > Centre for Global Food and Resources
- > International Centre for Financial Services
- > Institute for International Trade
- > Research Unit for the Study of Society, Law and Religion
- > South Australian Centre for Economic Studies

Architecture

Reasons to conduct research in Architecture and the Built Environment at the University of Adelaide:

- 1 Highly qualified, nationally and internationally recognised staff
- 2 Multidisciplinary school with a shared focus on cities/urbanism
- 3 Close working relationships with architecture and landscape architecture practitioners
- 4 Interdisciplinary research with other areas, including engineering, computer sciences, health sciences, psychology, history, geography

The School of Architecture and Built Environment has three major research areas and has a strong preference for enrolling higher degree by research candidates in, sustainable built environment; architectural history, theory and culture; and design research and learning. The school specialise in delivering internationally recognised programs in architecture, landscape architecture, planning and urban design.

Our programs are professionally accredited by the Australian Institute of Architects, the Australian Institute of Landscape Architects and the Planning Institute of Australia (PIA).

At Adelaide 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.

Research centres and units

- > Centre for Asian and Middle Eastern Architecture (CAMEA)
architecture.adelaide.edu.au/research/groups/asian-middle-eastern-architecture/
- > China Australia Sustainable Research Unit (CASRU)
www.architecture.adelaide.edu.au/research/groups/china-australia/
- > Cities and Urban Landscape Research Unit.

Research areas

Staff in Architecture and Built Environment are active researchers and supervisors in a variety of areas.

Sustainable built environment

- > Zero-energy/zero-carbon building designs
- > Human thermal comfort
- > Ethics in the built environment
- > Landscape design for future climates



‘Conducting my PhD research on ‘The history of medieval gardens and landscapes’, under the supervision of supportive world-class professionals at the University of Adelaide has been an exciting adventure which has opened the doors of perception, insight and opportunities to me.’

Zahra Ranjbari PhD in Architecture

- > Water-sensitive urban design
- > construction waste management
- > sustainable construction
- > Productive landscapes for food security
- > Sustainable performance assessments, including energy use in buildings, post-occupancy evaluation, building performance simulation, and environmental and economic assessments of designs
- > Minimising urban heat through appropriate landscape and building design, including green roofs and walls.

Architectural history, theory and culture

- > Islam and secular urban culture in early-modern Middle East
- > History and theory of Islamic architecture (modern and pre-modern)
- > Arab-Islamic intellectual history (17th–18th centuries)
- > Modern Indian architecture
- > Architecture and planning history of British India and Ceylon
- > Colonial and contemporary issues in Asian architecture
- > Australian-Asian exchange in architecture and the building industries
- > Transnational networks of architectural production in Asia and Africa
- > Comparative cultural landscape studies
- > Cultural landscape interpretation and conservation
- > History of design and planning (landscape and urban)
- > Landscape and environmental design and planning
- > Cross-cultural approaches to design pedagogy
- > Cross-cultural/cross-disciplinary studies in design and practice.

Design research and learning

Within this area, research is undertaken in a variety of modes concerned with design practice, including the following:

- > The activity of designing in the disciplines of Architecture, Landscape Architecture and Urban Design is undertaken as a research activity where built outcomes are both the ongoing experiment and the outcome of experiments in the formal and material resolution of specific questions about landscapes, built structure, cities and the demonstrable relationships they represent.
- > Research into the production of designed works by designers includes both critical reflection and curatorial re-documentation of past work, as well as the development and testing of new design methods through new design projects.
- > Teaching and learning pedagogies for design practice and research are themselves researched through examination of design practice methodologies in education.

Further information or advice

architecture.enquiries@ask.adelaide.edu.au

To find a supervisor or submit a research proposal submit an enquiry at:
adelaide.edu.au/study/postgraduate/research-degrees/more-info/

To learn more about the school's areas of research please visit:

architecture.adelaide.edu.au/research

T: +61 8 8313 5696

E: stella.ho@adelaide.edu.au

Dr Katharine Bartsch

Architecture and Built Environment



Fields of research

- > Architecture and Islam in Australia
- > History and theory of Islamic architecture and gardens
- > Human mobility and architectural hybrids.

Awards/grants

- > ARC Linkage Grant, The Architecture of Australia's Muslim Pioneers, 2013-2016 (with Peter Scriver and Partner Institutions SA Museum and International Islamic University, Malaysia, IIUM)
- > Faculty Women's Fellowship, 2013
- > Executive Dean of the Professions' Prize for Excellence in UG Teaching, 2007.

I chose to research in my field because

My research interests stem from professional practice. Early in my career at a prominent local firm the team was commissioned to design a mosque in Dubai, UAE. The design sparked a lively debate and raised many questions. I wanted to learn more about the capacity of architecture to materialise faith amidst intense cultural intersections today.

Islam is a global faith. It has never existed in a vacuum. The emergence and diffusion of Islam can be traced along routes of migration, pilgrimage, trade, or travel in pursuit of knowledge. Given this context of mobility and the cultural encounters it engenders, the goal of my research is to interpret the complexity and diversity of Muslim communities that is materialised in the built environment. Thus, my research is interdisciplinary, reaching beyond conventional discourses of architecture to obtain rich insights from anthropology, cultural geography, world systems theories, postcolonial theory, and the history of travel. This approach enables a critical understanding of the production and transformation of the predominantly hybrid architecture of Muslim communities; a compelling counter-narrative to monolithic representations of so-called Islamic architecture.

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.

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

Our dedicated supervisors are recognised nationally and internationally for their expertise in three key areas: sustainable architecture and landscapes; architectural history, theory and culture; and design and research.

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 most appropriate supervision panel for individual students. This guidance is complemented by our supportive, collegial research community.

Recent student completions

- > Kinda Samara, M.Phil., completed 2015. The Rise of Modern Urbanity (tamaddun) in the Arab World: Education, Journalism, and Enlightenment (with Principal Samer Akkach)
- > Marwa El-Ashmouni, PhD, awarded 2013. The Rationale of Architecture Discourses in Post-Independence Egypt: A Contrapuntal Reading of Alam Al-Benaa, 1980-2000 (Principal with Peter Scriver), 2013 Doctoral Research Medal Winner
- > Elise Kamleh, PhD, awarded 2012. Eurasian Architectural Exchange in the Eighteenth Century. A Study of Three Gateway Cities: Istanbul, Lucknow and Aleppo (Principal with Peter Scriver)
- > Georgina Hafteh, M.Phil., completed 2012. The Unique Garden Culture of Damascus, 1600-1800 (with Principal Samer Akkach)
- > Namrata Vishwasrao, PhD, awarded 2011. Sustainable Water Management in Semi-Arid India: Learning from the Gond and Kohli Indigenous Communities (with Principal David Jones).

For a full list of my current students, view: adelaide.edu.au/directory/katharine.bartsch

“Our dedicated supervisors are recognised nationally and internationally for their expertise in three key areas: sustainable built environment architectural history, theory and culture; and design and research.”

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 local government, practice and academia.

Recent publications

1. Bartsch, K. (2015). Building Identity in the Colonial City: The Case of the Adelaide Mosque. *Journal of Contemporary Islam: Dynamics of Muslim Life*, 9, pp. 247-70. doi: 10.1007/s11562-015-0345-z.
2. Bartsch, K. and Kamleh, E. (2014). Karbala in Lucknow: An Itinerary of Architectural Mobility. *International Journal of Islamic Architecture*, 3(2): 267-302. doi: 10.1386/ijia.3.2.267_1
3. El-Ashmouni, M. and Bartsch, K. (2014). Egypt's Age of Transition: Unintentional Cosmopolitanism during the Reign of Muhammad 'Ali (1805-1848). *Arab Studies Quarterly*, 36 (1): 43-74. doi: 10.13169/arabstudquar.36.1.0043
4. Rashid, M. and Bartsch, K. (2014). Architecture of the Adelaide Mosque: Hybridity, Resilience and Assimilation. *Traditional Dwellings and Settlements Review*, 25 (2): 65-75.

Business

Reasons to conduct research in 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 Cross-disciplinary research within other areas of the University

Research in the Adelaide Business School 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 school. Our students are aided in their major research study by the personal supervision of two or more of our highly qualified academic staff. This major research project is completed independently to allow our students to develop all the skills they require for a career in their area of interest.

Resources are made available to our students to provide them with the best possible pathway for success. We ensure they feel welcome and are well supported with facilities, supervision and language support which are all state-of-the-art. During their time with us, students come into contact with some of the best researchers in their field of study and have access to the latest research tools.

The Adelaide Business school excels in many research areas, and we invite you to explore these areas, together with our research centres and institutes, in the following pages. We look forward to working with you.

Research centres

- > International Centre for Financial Services adelaide.edu.au/icfs
- > Entrepreneurship, Commercialisation and Innovation Centre ecic.adelaide.edu.au/
- > Centre for Global Food and Resources adelaide.edu.au/global-food/

Research institutes

- > Institute for International Trade iit.adelaide.edu.au

Research areas

Adelaide Business School staff are active researchers and supervisors in a variety of areas.

Accounting and information systems

- > Professional ethics
- > Auditing budgetary planning and control
- > Financial accounting
- > Financial disclosure and segment reporting
- > Management accounting
- > Not-for-profit management and accounting
- > Public sector management and accounting
- > Family business
- > Accounting and gender, education, history and regulation.

Banking, property and finance

- > Asset pricing
- > Banking
- > Behavioural finance
- > Capital structure
- > Computational finance
- > Corporate diversification
- > Corporate governance
- > Corporate risk management
- > Derivatives markets
- > Directors duties
- > Dividend policy
- > Environment issues and regulations

- > Ethics
- > Executive compensation
- > Fixed-income securities
- > Funds management
- > Human resource management
- > Insurance
- > International finance
- > Management corporate strategy
- > Market efficiency
- > Real estate finance
- > Shadow and de facto directors
- > Systems thinking
- > Tax planning and anti-avoidance
- > Tax policy
- > Taxation of trusts and the impact of administrative review on tax law
- > Trading strategies.

Entrepreneurship, innovation and project management

- > Complex systems
- > Systemic risks
- > Early-stage venture start-up and family finance
- > Entrepreneurial behaviour (socially or commercially oriented)
- > Nascent or existing entrepreneurs
- > Venture creation process
- > Expansion and revitalisation of existing ventures
- > Firms' ability to create innovative sustainable advantages
- > Innovation management
- > Knowledge transfer for innovation purpose
- > Creativity and innovation
- > Strategic innovation
- > Regional entrepreneurship ecosystems
- > Entrepreneurial development
- > Entrepreneurship education
- > Entrepreneurial policy frameworks
- > Entrepreneurial opportunity
- > Project management
- > Innovation management in SMEs
- > Family business/SMEs.



“By studying at the University of Adelaide, I have had the privilege to work alongside world-renowned scholars and to share their insights. The doctorate program was an incredibly rewarding experience. Having now completed my PhD, I can say with confidence that I have developed many key life and research-based skills. I would strongly recommend the doctorate program to aspiring research students.”

Ivan Obaydin PhD in Finance

Dr Roberta Crouch

Business

I chose to research my field because:

My research in consumer behaviour is fascinating, particularly when related to wine marketing in an international context. The opportunities for funding and international collaboration are excellent.

Wine marketing in particular crosses all international borders and is employed using a wide range of consumer-to-business and, now even more importantly, via consumer-to-consumer channels. In this area of research, extrinsic cues, such as label styles, retail environments etc, provide many opportunities for interesting studies that can make a strong commercial and theoretical contribution.

I also enjoy my country-of-origin work, not just as it relates to wine but also to services and cross-cultural studies. The services sector is a vital export earner for many countries, taking in both developed and emerging economies because of the highly personal nature of service provision, again the influences of culture and country-of-origin stereotypes provide vast opportunities for interesting and important research.

My favourite part of being a supervisor:

I enjoy getting to know the student, helping them to develop robust studies—and seeing the results. It's a satisfying journey, with opportunities to attend conferences together and ultimately publish together.

Finally, it is hugely satisfying to see students head off to make their own careers.

What makes a successful supervisor and student partnership?

Mutual respect and hard work on both sides. Also a clear understanding of the tasks to be completed and a mutual commitment to them.

Why research wine marketing at the University of Adelaide?

The University of Adelaide is very well placed to provide excellent support and opportunities for industry engagement in this sector. The Faculty of the Professions currently runs a program called Wine 2030 and this is endorsed and funded by the University.

This program involves a group of our academics and important industry stakeholders working together to further wine-related research. Personally, I work very closely with prominent regions in South Australia: the Adelaide Hills, the famous Barossa Valley and the developing Clare Valley.

I have built strong relationships not only with other academics in the field, but also high-profile industry groups. Moreover, we have an excellent record for securing funding for wine-related studies.

My students have gone on to:

- > work for a commercial market research company
- > hold a senior brand-management role
- > hold a senior administration position in another university
- > hold a senior lecturing position in the vocational education and training sector.

Most are published in peer-reviewed journals and/or have presented their work (in honours for example) at Australian and international conferences (peer-reviewed).

Fields of research

- > Country-of-origin effects on consumer perceptions of product and service quality
- > Organisational crisis management in international contexts
- > International services marketing
- > International wine marketing and consumer choice behaviours
- > Cross-cultural influences on consumer behaviour and management decisions
- > Consumer use of extrinsic and intrinsic cues in product quality assessments
- > Consumer knowledge measurement and effects on purchase decisions
- > Consumer brand attachment
- > Brand communities
- > Development of experimental designs (including conjoint analysis and max-diff)
- > The influence of social media on consumer purchasing behaviour.



“My research in consumer behaviour is fascinating, particularly when related to wine marketing in an international context. The opportunities for funding and international collaboration are excellent.”

Award

Reviewer of the Year 2011, The International Journal of Wine Business Research

Projects you may be interested in:

- > wine e-communities and social media
- > retail wine environments and shelf 'clutter'
- > perceptions of new-world wines in emerging wine markets.

Recent publications

1. Orth, U., Crouch, R. (2014) "Is Beauty in the Aisles of the Retailer? Package Evaluations in Visually Complex Contexts", *Journal of Retailing*
2. Granger, K., Conduit, J., Lu, V., Veale, R., Habel, C. (2012) "Keeping the Faith! Drivers of Participation in Spiritually Based Communities", *Journal of Business Research*
3. Orth, U., Stöckl, A., Veale, R., Brouard, J., Charters, S., Larreina, M., Lecat, L., Olson, J., Rodriguez-Santos, C., and Wilson, D (2011) "Attribution theory perspectives on Tourists attachment to place-based brands", *Journal of Business Research*

Global food and agriculture

- > Food system innovation
- > Food policy
- > Water policy
- > Resilient landscapes
- > International development
- > Healthy societies
- > Food security
- > Consumer behaviour
- > Agribusiness
- > Agriculture value chains
- > Behavioural economics
- > Experimental economics
- > Agriculture policy
- > Environmental economics and policy
- > Agricultural and food economics
- > Agricultural development economics
- > Organic agriculture
- > Water trading
- > Biotechnology.

International business

- > Internationalisation process
- > International entrepreneurship
- > Globalisation and trade
- > International business strategy
- > Services internationalisation
- > International marketing
- > International buyer-seller relationships
- > International human resource management
- > Mergers and acquisitions
- > International leadership
- > Strategic management of international alliances and networks
- > Organisational sustainability
- > Ethics and technology
- > Knowledge transfer and innovation management.

International trade

- > International trade
- > Trade policy
- > International trade law
- > Trade and development
- > Foreign direct investment
- > Trade negotiations
- > Trade in services.

Wine business

- > Domestic and international market development
- > Australian wine in the Asian century: production and cost efficiencies

- > Wine brand development
- > Innovative wine product development
- > Consumer choice preferences
- > Wine and food tourism
- > Sustainable wine industry business practices
- > Public policy and health.

Marketing

- > Business relationships and networks
- > Services marketing
- > Market orientation
- > Internal marketing
- > Dynamic capabilities
- > Consumer choice and decision-making
- > Wine marketing
- > Supply chains
- > Employer branding
- > Social media
- > Fast moving consumer goods
- > Brand management
- > Product design
- > Business relationships and networks supply chains
- > Time and timing in business markets
- > Relational norms
- > Services marketing university-industry linkages
- > Marketing education
- > Corporate social responsibility
- > Electronic marketing
- > Consumer adoption behaviour
- > Extrinsic product cues
- > Consumer knowledge and self-confidence
- > Country of origin
- > Crisis management.

Further information or advice

professions@ask.adelaide.edu.au

To find a supervisor, submit a research proposal or learn more about this area of research, visit:

business.adelaide.edu.au/research

T: +61 8 8313 6455

E: professions@ask.adelaide.edu.au

W: business.adelaide.edu.au

For further information and expressions of interest regarding the PhD program associated with the Centre for Global Food and Resources please email: globalfood@adelaide.edu.au.

T: +61 8 8313 0087

E: globalfood@adelaide.edu.au

W: adelaide.edu.au/global-food



During my time at the University of Adelaide, I have moulded and refined my research skills via great learning environments and liaison with diverse practitioners provided by the school. Discussion with supportive academic staff has inspired me to broaden and deepen my insights into my research area and consolidate my knowledge. It has been a privilege to find myself among highly recognised researchers at the University of Adelaide. It is an extremely positive environment for research-interested students.

Jessica Moonhee Yi

Master of Business Research



Economics

Reasons to conduct research in Economics at the University of Adelaide:

- 1 Strong collaborative research in agriculture, food and wine
- 2 Home to the Adelaide Laboratory for Experimental Economics (ADLAB)
- 3 Opportunity to learn from visiting global leaders in economics through the 'Geoff Harcourt' visiting professorship

The School of Economics offers a supportive and collegial learning environment that enables students to receive individualised attention and the opportunity to interact closely with academic staff.

We have a strong research base with diverse interests and specialise in international trade and policy, business cycle macroeconomics, cooperative, non-cooperative and behavioural game theory and applied econometrics.

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

Research centres

- > South Australian Centre for Economic Studies adelaide.edu.au/saces
- > Wine Economics Research Centre adelaide.edu.au/wine-econ

Research areas

School of Economics staff are active researchers and supervisors in a variety of areas.

Applied econometrics

- > Econometric theory
- > Financial econometrics
- > Health economics
- > Panel data
- > Time-series econometrics
- > Quantile regression
- > Empirical international trade.

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 agreements
- > Labour markets and globalisation
- > Foreign direct investment.

Microeconomics

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

Macroeconomics

- > Sunspots
- > Great depressions
- > Monetary policy
- > News shocks
- > Monetary theory
- > Macro labour markets.

Economic history

- > History of globalisation and trade institutions
- > Historical economic geography
- > Communications and information systems
- > Australian economic development
- > Australian labour markets
- > Formerly centrally planned economies
- > Indian economic history.

Further information or advice

professions@adelaide.edu.au

To find a supervisor or learn more about this area of research and submit a research proposal, visit: economics.adelaide.edu.au/research



“ If at first you don't succeed, search and search again. That's why we call it re-search. **”**

Claire Settre

PhD candidate at the Centre of Global Food and Resources

Professor Wendy Umberger

Centre for Global Food and Resources



Fields of research

Wendy's research uses innovative methods to understand drivers of consumer and producer behaviour and the implications of changing behaviour for food systems.

This work includes estimating consumer demand for specific credence (quality, safety and health) attributes in food and determining efficient governance systems to verify related attributes. She is also studying the impact of urbanisation, modern retail transformation and development programs on food consumption patterns, diet quality and longer-run health and livelihood implications in Australia, Indonesia, Vietnam and Fiji.

Awards

- > 2016 President of Australian Agricultural and Resource Economics Society (AARES)
- > 2015, Associate Editor Applied Economic Perspectives and Policy (1/7/15 to 30/6/2019)
- > 2014, The International Crop Research Institute for Semi-Arid Tropics (ICRISAT) Governing Board (3-year term 2015-2018)
- > 2014, Elected to be AARES President-Elect (2015) and President (2016)
- > 2010, Expert Group, National Lamb Value Chain Project.

Students I am currently supervising

- > Anna Finizio (PhD candidate);
- > Christian Genova (PhD candidate);
- > Souphalak Inphonephong (PhD candidate);
- > Craig Johns (PhD candidate);
- > Brendan Lynch (PhD candidate);
- > Rio Maligalig (PhD candidate);
- > Jesmin Rupa (PhD candidate);

I chose to research in global food and resources because

I love the research I do because it is relevant and addresses real life issues facing our complex global food systems, from food production to consumption.

Although my postgraduate field of expertise is economics (agricultural economics), through my research I get to work with many other disciplines, ranging from agricultural, animal and health sciences to psychology, history, anthropology and even gender issues.

I also have the opportunity to interact with agri-businesses, policymakers, and even consumers.

My favourite part of being a supervisor is:

Supervision is one of the best aspects of an academic position as supervisors, we have the opportunity to work with interesting individuals

(students) from around the world and hopefully have a positive impact in their life in some way. I view supervision as a very long-term relationship, one that often extends past their time at the University and transforms over time.

Watching former students have career success once they leave the University is very rewarding. I also enjoy seeing the transformation and development in students as they progress through their programs.

What makes a successful supervisor and student partnership?

Open, regular and mutually respectful communication is the key to successful supervisor and student partnerships. Regular meetings and realistic deadlines for tasks are critical.

There are times when supervisors get very busy with competing pressures. Therefore, students must take the initiative to make sure they are regularly communicating via other means (e.g., e-mail or Skype) if face-to-face meetings are not possible for a period of time.

I also think the make-up of the whole supervisory committee is important. Committee members should be complementary with respect to their skill sets and availability.

My students have gone on to

Students that I have formerly supervised are working across the globe. They have gone on to positions in academia, government and policy institutions, NGOs, and the private sector. In fact, one of my most recent PhD students is working in Brussels as Indonesia's agricultural attache.

Recent publications

1. Malek, L., Umberger, W., Makrides, M. and Zhou, S.J. 2016. Poor adherence to folic acid and iodine supplement recommendations in preconception and pregnancy: a cross-sectional analysis. *Australian and New Zealand Journal of Public Health* (Accepted 17/3/16 and forthcoming).
2. Umberger, W.J., He, X., Minot N. and Toiba, H. (2015). Examining the Relationship between the Use of Supermarkets and Over-nutrition in Indonesia, *American Journal of Agricultural Economics*, 97 (2): 510-525.
3. Umberger, W. J., Reardon, T., Stringer, R. and Mueller Loose, S. (2015). Market-Channel Choices of Indonesian Potato Farmers: A Best-Worst Scaling Experiment, *Bulletin of Indonesian Economic Studies*, 51 (3), 461-477.
4. Sahara, S., Minot, N., Stringer, R. and Umberger, W. J. (2015). Determinants and effects of small chilli farmers' participation in supermarket channels in Indonesia, *Bulletin of Indonesian Economic Studies*, 51 (3), 445-460.

“I love the research I do because it is relevant and addresses real-life issues facing our complex global food systems, from food production to consumption.”

5. Toiba, H., Umberger, W. J. and Minot, N. (2015). Diet transition and supermarket shopping behavior: Is there a link? *Bulletin of Indonesian Economic Studies*, 51 (3), 389-403.
6. Minot, N., Stringer, R., Umberger, W.J., and Maghraby, W. 2015. "Urban Shopping Patterns in Indonesia and Their Implications for Small Farmers." *Bulletin of Indonesian Economic Studies*, 51 (3), 375-388.
7. Malek, L., Umberger, W., Makrides, M. and Zhou, S. J. (2015). Adherence to the Australian dietary guidelines during pregnancy: Evidence from a national study, *Public Health Nutrition*, 31, 1-9.
8. Ahmed, S., Makrides, M., Sim, N., McPhee, A., Quinlivan, J., Gibson, R. and Umberger, W. (2015). Analysis of Hospital Cost Outcome of DHA-rich Fish-oil Supplementation in Pregnancy: Evidence from a Randomised Controlled Trial, *Prostaglandins, Leukotrienes and Essential Fatty Acids*, 102-103, 5-11.
9. Dodd, J.M., S. Ahmed, J. Karnon, W.J. Umberger, A.R. Deussen, T. Tran, R.M. Grivell, C.A. Crowther, D. Turnbull, A.J. McPhee, G. Wittert, J.A. Owens, J.S. Robinson, LIMIT Randomised Trial Group. (2015) "The cost-effectiveness of providing antenatal lifestyle advice for women who are overweight or obese: the LIMIT randomised trial". *BMC Obesity* 2:14:1-9.
10. Griffith, G., Gow, H., Umberger, W., Fleming, E., Mounter, S., Malcolm, B. and Baker, D. (2015). Refocussing on the Value Chain Perspective to analyse food, beverage and fibre markets, *Australasian Agribusiness Perspectives*, 104, June, pp. 1-19.

Law

Reasons to conduct research in Law at the University of Adelaide

- 1 World-standard cutting edge interdisciplinary research
- 2 Graduates are legal scholars with tremendous international reputations
- 3 High level of personal and quality academic supervision

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 120 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 ERA ranking of 4 (performance above world standard) in the Australian Research Council's 2012 research quality and evaluation.

Research centres

- > Research Unit for the Study of Society, Law and Religion
adelaide.edu.au/lawandreligion
- > Litigation Law Unit (LLU)
law.adelaide.edu.au/research/specialisations/litigation/
- > Public Law and Policy Research Unit (PLPRU)
adelaide.edu.au/public-law-policy/
- > Regulation of Corporations, Insolvency and Taxation (ROCIT)
law.adelaide.edu.au/research/specialisations/bankruptcy-insolvency/
- > The Adelaide Research Unit on Military Law and Ethics (RUMLAE)
law.adelaide.edu.au/military-law-ethics/

Research areas

Adelaide Law School staff are active researchers and supervisors in a variety of areas.

- > Aboriginal legal issues
- > Administrative law
- > Anti-discrimination law
- > Bioethics and the law
- > Canon law
- > Codification
- > Commercial obligations
- > Common law tradition
- > Comparative constitutional law
- > Comparative law
- > Constitutional law
- > Consumer law
- > Contract law
- > Corporate law
- > Criminal law, sentencing and criminology
- > Dispute resolution
- > Drug law
- > Ecological jurisprudence
- > Electoral law
- > Employment law
- > Energy law
- > Environmental law
- > Equity
- > European Union law
- > Evidence
- > Freedom-of-information law
- > Housing law
- > Human rights law
- > Immigration and refugee law
- > Insolvency
- > Insurance
- > Intellectual property law
- > International law
- > Intersection of law and theology
- > Judges and judicial activism
- > Justice access
- > Justice in post-conflict countries
- > Labour law
- > Landlord and tenant law
- > Lawyers and professionalism
- > Law and religion
- > Law of work, employment, labour and industrial relations law
- > Legal education
- > Legal ethics

- > Legal history
- > Legal scholarship
- > Legal theory, feminist theory and socio-legal theory
- > Medical law
- > Native title
- > Parliamentary law
- > Private international law
- > Procedure
- > Property law and theory
- > Public international law
- > Public law
- > Religious legal systems
- > Remedies
- > Roman law
- > Securities regulation
- > Sports law
- > Statutory interpretation
- > Succession
- > Technology law
- > Tort law
- > Water.

Further information or advice

professions@ask.adelaide.edu.au

To find a supervisor, submit a research proposal or learn more about this area of research, visit: law.adelaide.edu.au/research/research-expertise-directory/

T: +61 8 8313 5063

E: professions@ask.adelaide.edu.au

W: law.adelaide.edu.au

“ The opportunity to work on a PhD at the University of Adelaide has provided me with a wonderful sense of freedom to learn and pursue my own academic interests. The best part of my journey so far has been the opportunity to work with my supervisors. **”**

Katherine Russell

PhD in Law (Animal Law)

Associate Professor Peter Burdon

Law



Awards

- > IUCN Academy of Environmental Law: Emerging Scholarship Award, 2016
- > Citation, Early Career Award, Academy of the Social Sciences in Australia, 2013
- > University Doctoral Research Medal, 2012
- > Bonython Prize for the Best Original Postgraduate Thesis, 2012
- > Executive Dean of the Faculty of the Professions Prize for Excellence in Teaching, 2011 (with Paul Babie and Paul Leadbeter).

Students I am currently supervising

- > David Moon (PhD), "The Legal Mind". Jointly with Alex Reilly
- > James Stewart (PhD), "Critical Legal Studies in a Conservative Age". Jointly with Paul Babie
- > Claire Williams (PhD), "The Future of Earth Jurisprudence: Science and Law". Jointly with Caecilia Ewenz.
- > Katherine Russell (PhD), "Critical Animal Studies". Jointly with Ngaire Naffine.
- > Costa Avgoustinos (PhD), "Reconciling Climate Change and Social Justice in Earth Jurisprudence". Jointly with Ben Golder and Amelia Thorpe.

I chose to research in my field because

My research is motivated by the environmental crisis and trying to understand the relationship between law and environmental harm. My research is highly multidisciplinary and draws on law, philosophy, sociology, economics and political science.

My favourite part of being a supervisor is

The opportunity to act as a mentor for young minds. There is so much more to doing a PhD than the thesis. It is really the opportunity to work closely with a mentor and be introduced to academic life.

What makes a successful supervisor and student partnership?

Clear communication, trust and respect. Each of these criteria builds organically over the course of a candidature and requires effort from both the supervisor and the student. I also help facilitate a community of scholars working in my disciplinary areas so that they can support candidates and provide intellectual guidance.

Why research law at the University of Adelaide?

The Adelaide Law School is a world-class research institution, ranked in the top 50 in the world. Through good management and decision-making we have attracted world-class scholars, and collectively we have fostered an environment dedicated to research.

Projects you may be interested in

The main focus of my research is the environmental crisis and how human society might transition their laws, governance structures and social relations so that they support (rather than undermine) the health and integrity of the planet.

I am also interested in projects relating to climate change and critical legal theory.

My students have gone on to

My most recent dissertation student has just been awarded the Monash Scholarship and is now studying a Doctor of Juridical Science (SJD) at Yale Law School.

Recent publications

1. Hannah Arendt: On Judgment and Responsibility' 24(2) (2015) Griffith Law Review 221.
2. 'Wild Law: A Proposal for Radical Social Change' 13 (2015) New Zealand Journal of Public and International Law 157.
3. 'A Change in the Weather? Australia and Climate Change Politics 2007-2014' in Prue Taylor and Don Brown (eds) Deepening National Responses to Climate Change On The Basis of Ethics and Justice (Routledge, 2015)
4. Earth Jurisprudence: Private Property and the Environment (Routledge Press, 2014)
5. "Environmental Human Rights: A Constructive Critique" in Anna Grear and Louis Kotz (eds), Research Handbook on Human Rights and the Environment (Edward Elgar, 2014)
6. 'Realising Earth Democracy: Governance from Below' in Laura Westra and Mirian Vilela (eds), The Earth Charter, Ecological Integrity and Social Movements (Routledge, 2014) 24
7. 'Idealism and Struggle: Co-opting Legal Rights for Environmental Protection' (2014) Alternative Law Journal 39(3) 36

“ My research is motivated by the environmental crisis and trying to understand the relationship between law and environmental harm. My research is highly multidisciplinary and draws on law, philosophy, sociology, economics and political science. ”

Faculty of Sciences

Lieke van de Hulst

PhD student

“With my academic background in biochemistry and prior work experience in South Australian wineries, undertaking a PhD at the University of Adelaide Waite campus was a perfect fit for me. It is exciting to be part of a hub that is such an innovative leader in wine research, and my PhD is an opportunity for me to combine my academic experience with my passion for wine.”

The Faculty of Sciences undertakes the broadest range of scientific research of any university in South Australia.

World leaders in research

We are internationally renowned for excellence in education and research in the biomedical, physical, agricultural, environmental and earth sciences, and are leaders in emerging fields such as photonics.

This leadership is recognised by the Australian Research Council, with 84% of our research fields ranked above or well above world standard in the most recent Excellence in Research Australia (ERA) evaluation.

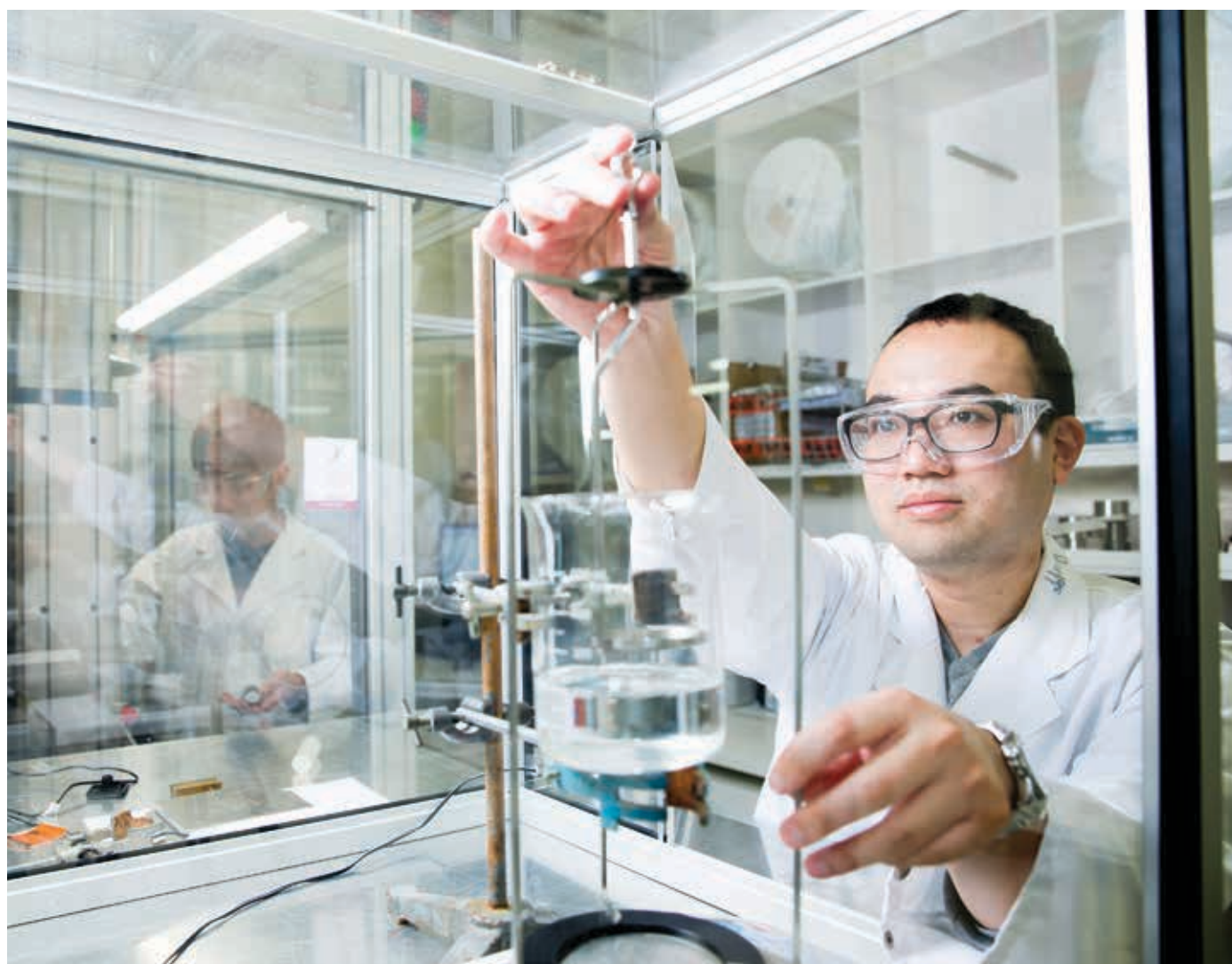
As part of a research-intensive institution ranked in the top 1% of universities worldwide, the Faculty of Sciences attracts high-calibre researchers and considerable research funding. Our students have the opportunity to learn directly from research leaders and have access to our state-of-the-art facilities and technology, ensuring they are equipped with the cutting edge

knowledge and skills needed to make an impact in their own careers.

Employers recognise that Adelaide graduates' research ability and broad range of transferable skills equip them well for challenging and diverse roles in industry, government and business, as well as in research and academic organisations.

Much of our research responds to global and national priorities, with our researchers working closely with government and industry to address core issues faced by society. Those looking for a research topic with a demonstrable impact will find plenty of options within the faculty's four schools:

- > Agriculture, Food and Wine
- > Animal and Veterinary Sciences
- > Biological Sciences
- > Physical Sciences.



Agriculture, Food and Wine

Reasons to conduct research in Agriculture, Food and Wine at the University of Adelaide

- 1 World-class concentration of scientific expertise
- 2 World-class education and infrastructure
- 3 Well established links with many partner organisations

The School of Agriculture, Food and Wine, based on the University's Waite campus, has an outstanding reputation for research, with particular strengths in: farming systems, food and nutrition, plant breeding and genetics, plant physiology, viticulture, plant protection, wine science and agricultural economics. The school is a member of the Wine Innovation Cluster that brings together all wine-related research across the Waite campus.

The Plant Accelerator is the Adelaide branch of the Australian Plant Phenomics Facility. It houses the latest digital imaging technologies combined with high-capacity computing and robotics to allow the automated, high-throughput, continuous and non-destructive measurement of plant physical attributes (phenotypes). Other key research centres include the ARC Centre of Excellence in Plant Cell Walls and the FOODplus Research Centre.

Research institutes

- > Waite Research Institute
adelaide.edu.au/wri

Research centres

- > FOODplus Research Centre
adelaide.edu.au/foodplus
- > ARC Centre of Excellence in Plant Cell Walls
adelaide.edu.au/plant-cell-walls
- > ARC Centre of Excellence in Plant Energy Biology (node)
- > ARC Training Centre for Innovative Wine Production
adelaide.edu.au/itc-iwp
- > ARC Research Hub for Wheat in a Hot and Dry Climate
- > Australian Centre for Plant Functional Genomics
acpfg.com.au
- > The University of Adelaide and Shanghai Jiao Tong University Joint Laboratory for Plant Science and Breeding
- > Fertiliser Technology Research Centre
adelaide.edu.au/fertiliser

Research areas

School of Agriculture, Food and Wine staff are active researchers and supervisors in a variety of areas.

- > Farming systems
- > Food and nutrition
- > Plant breeding and genetics
- > Plant physiology, viticulture and horticulture
- > Plant protection
- > Soil and land systems
- > Wine science.

Postgraduate coordinators

Farming systems

Dr Matthew Denton
E: matthew.denton@adelaide.edu.au

Food and nutrition

Dr Jo Zhou
jo.zhou@adelaide.edu.au

Plant protection

Professor Eileen Scott
E: eileen.scott@adelaide.edu.au

Plant breeding and genetics

Associate Professor Ken Chalmers
E: ken.chalmers@adelaide.edu.au

Soil and land systems

Dr Jo Zhou
jo.zhou@adelaide.edu.au

Dr Matthew Denton

E: matthew.denton@adelaide.edu.au

Plant physiology, viticulture, horticulture and wine science

Dr David Jeffery
E: david.jeffery@adelaide.edu.au

Further information or advice

To find a supervisor, submit a research proposal or learn more about this area of research, please visit: sciences.adelaide.edu.au/research

School of Agriculture, Food and Wine
The University of Adelaide, Waite campus,
PMB 1, Glen Osmond, SA, 5064, Australia
T: +61 8 8313 7105
E: agfoodwine@adelaide.edu.au

Supervisor Spotlight

Dr Kerry Wilkinson

Agriculture, Food and Wine

Fields of research

- > Organic chemistry
- > Analytical chemistry
- > Wine chemistry
- > Sensory science.

I chose to research in my field because

It allowed me to apply my knowledge and skills in analytical chemistry to real life problems faced by grape growers and winemakers.

Research impact

Through my research I hope to enable the Australian wine industry to better address challenges associated with climate change,

rising production costs and changing consumer preferences. I also hope to inspire the next generation of wine scientists.

My favourite part of being a supervisor is

It's very rewarding to see students develop confidence in their ideas, their research and their capabilities as they progress through their PhD to ultimately become independent researchers in their own right.

Why research wine at the University of Adelaide?

The Waite campus is home of the Wine Innovation Cluster, a consortium of partners devoted to grape and wine research. Between them, the collaborat-

ive partners possess a major share of the viticulture and oenology research, development, extension and education capabilities within Australia.

What makes a successful supervisor and student partnership?

For me it's about sharing a common research interest and maintaining good communication.



Animal and Veterinary Sciences

Reasons to conduct research in Animal and Veterinary Sciences at the University of Adelaide

- 1 World-class scientific expertise
- 2 Quality infrastructure
- 3 Well established links with many partner organisations and industry across animal species

The School of Animal and Veterinary Sciences is based at Roseworthy campus and has a range of vibrant research activities that cover a broad spectrum of species, including mollusks, fish, poultry, pig, sheep, cattle, wildlife, companion animals and horses. The campus has an outstanding environment for research, with quality infrastructure and access to a variety of industry and research facilities. The school has well established links with many national and international partner organisations and relevant industries, which adds considerably to the research opportunities available.

Research centres

- > Australian Centre for Antimicrobial Resistance Ecology (ACARE)
- > Davies Research Centre
adelaide.edu.au/davies-research-centre

Research areas

- > Infectious diseases and public health
- > Animal health and welfare
- > Animal science and veterinary education
- > Anatomy, physiology and nutrition
- > Reproduction and genetics.

To find a supervisor, submit a research proposal or learn more about this area of research, please visit:

sciences.adelaide.edu.au/research

Postgraduate coordinators

Professor Gordon Howarth
E: gordon.howarth@adelaide.edu.au

Dr Suong Ngo
E: suong.ngo@adelaide.edu.au

Further information or advice

School of Animal and Veterinary Sciences,
The University of Adelaide, Roseworthy campus,
Roseworthy, SA, 5371, Australia

T: +61 8 8313 7987

E: avs_enquiries@adelaide.edu.au

“Roseworthy Campus and its interdisciplinary networking enabled me to address fundamental questions on mammalian growth and development before birth that have lifelong consequences for health and performance of animals. Collaboration with leading experts from diverse research fields has boosted my career through the development of a broad and dynamic professional network.”

Ruidong Xiang PhD in Veterinary Sciences

Supervisor Spotlight

Professor Stefan Hiendleder

Animal and Veterinary Sciences



Awards

- > Biotechnology in Animal Breeding Award 1999, H. Wilhelm Schaumann Foundation, Hamburg, Germany
- > Research Award Molecular Animal Breeding, 2004, Academy for Animal Health, Bonn, Germany Students.

I am currently supervising

Entesar Shuaib (Clinical-chemical parameters of fetal fluids and maternal and fetal blood: Effects of genetics and sex and relationships with placental-fetal phenotype in the bovine model) and Amanda Camp (Impact of invasive plant species toxins on the dynamics of a marsupial herbivore population – a genomics approach) and undergraduate students.

I chose to research in my field because

It is multidisciplinary and covers basic and applied research, including developing advanced animal breeding strategies and animal models for human health.

My favourite part of being a supervisor is

To see students develop and grow independent.

What makes a successful supervisor and student partnership?

Mutual respect, trust and a common desire to succeed.

Why research epigenetics and genetics in reproduction and development at the University of Adelaide?

The School of Animal and Veterinary Sciences offers great opportunities to work with fantastic staff and brand new facilities in an interdisciplinary environment.

Projects you may be interested in

- > mitochondrial bioenergetics, transcriptomics and proteomics in embryo-fetal growth and development
- > mitochondrial haplotype effects on programming diabetes in utero
- > sex-specific differences in the fetal transcriptome and its implications for postnatal health and performance.

My students have gone on to

Work for pharmaceutical and medical-device companies, government research organisations, and commercial laboratory service providers, as consultants for animal welfare and health and assistant professors.

Recent publications

1. Estrella CAS, Kind KL, Derks A, Xiang R, Faulkner N, Mohrdick M, Fitzsimmons C, Kruk Z, Grutzner F, Roberts CT, Hiendleder S. Remodelling of the bovine placenta: Comprehensive morphological and histomorphological characterization at the

late embryonic and early accelerated fetal growth stages. Placenta, accepted, 2017

2. Kleemann DO, Kelly JM, Rudiger SR, McMillen IC, Morrison JL, Zhang S, MacLaughlin SM, Smith DH, Grimson RJ, Jaensch KS, Brien FD, Plush KJ, Hiendleder S, Walker SK. Effect of periconceptional nutrition on the growth, behaviour and survival of the neonatal lamb. Anim Reprod Sci. 2015 Sep;160:12-22. doi:10.1016/j.anireprosci.2015.06.017. PubMed PMID: 26220681.
3. Xiang R, Lee AM, Eindorf T, Javadmanesh A, Ghanipoor-Samami M, Gugger M, Fitzsimmons CJ, Kruk ZA, Pitchford WS, Leviton AJ, Thomsen DA, Beckman I, Anderson GI, Burns BM, Rutley DL, Xian CJ, Hiendleder S. Widespread Differential Maternal and Paternal Genome Effects on Fetal Bone Phenotype at Mid-Gestation. Journal of Bone and Mineral Research 2014 Apr 18. doi: 10.1002/jbmr.2263. [Epub ahead of print]
4. Bebbere D, Bauersachs S, Fürst RW, Reichenbach HD, Reichenbach M, Medugorac I, Ulbrich SE, Wolf E, Ledda S, Hiendleder S. Tissue-specific and minor inter-individual variation in imprinting of IGF2R is a common feature of Bos taurus concepti and not correlated with fetal weight. PLoS One. 2013 Apr 8;8(4):e59564. doi:10.1371/journal.pone.0059564.

Physical Sciences

Reasons to conduct research in Physical Sciences at the University of Adelaide

- 1 World-class scientific expertise
- 2 Publications in world's best research journals
- 3 Extensive external funding and international collaborations

The School of Physical Sciences brings together and consolidates the University's broad-ranging and cutting edge research in the fundamental disciplines of:

- > chemistry
- > earth science
- > physics.

Research world-firsts from the school are capturing international attention in the world's best research journals. These breakthroughs, which have the potential to change our lives, are attracting significant external funding and expanding opportunities for international collaboration. The school has a wide range of state-of-the-art equipment, IT and infrastructure to support this research.

Research institutes

- > Institute for Photonics and Advanced Sensing adelaide.edu.au/ipas
- > Institute for Mineral and Energy Resources adelaide.edu.au/imer

Research centres

- > ARC Centre of Excellence for Gravitational Wave Discovery (Adelaide node)
- > ARC Centre of Excellence in Nanoscale Bio-Photonics (host) cnbp.org.au/
- > ARC Centre of Excellence in Particle Physics at the Tera-scale (node) coepp.org.au/People/Adelaide-Node
- > ARC Research Hub for Australian Copper-Uranium adelaide.edu.au/copper-uranium-research

- > Centre for Advanced Nanomaterials adelaide.edu.au/can
- > Centre for Complex Systems and the Structure of Matter physics.adelaide.edu.au/cssm
- > Centre for Tectonics, Resources and Exploration adelaide.edu.au/trax
- > Centre for Mineral Exploration Under Cover adelaide.edu.au/cmxuc
- > South Australian Centre for Geothermal Energy Research (SACGER) adelaide.edu.au/geothermal
- > Sprigg Geobiology Centre adelaide.edu.au/environment/sgc

Research areas

- > Chemistry
- > Earth science
- > Physics.

Postgraduate coordinators

Chemistry
Dr Tara Pukala
E: tara.pukala@adelaide.edu.au

Physics
Associate Professor Gavin Rowell
E: gavin.rowell@adelaide.edu.au

Earth Science
Dr Ros King
E: rosalind.king@adelaide.edu.au

To find a supervisor, submit a research proposal or to learn more about areas of research, please visit: sciences.adelaide.edu.au/research

Further information or advice

School of Physical Sciences
North Terrace campus,
The University of Adelaide,
SA, 5005, Australia
T: +61 8 8313 5996
E: physicalsci@adelaide.edu.au



“ I have always been interested in chemistry research with potential applications in health sciences and medicine. The University of Adelaide provides a transdisciplinary research environment such that we can collaborate closely with physicists and biologists. This greatly expands my knowledge and enables my research to produce many fruitful results.”

Michelle Zhang

BSc (Molecular and Drug Design)
Honours and PhD

Professor Heike Ebendorff-Heidepriem

Physics



Fields of research

- > Materials science
- > Photonics
- > Advanced manufacturing.

Awards

- > University of Adelaide Womens Research Excellence Mid-Career Award (2014)
- > International Zwick Science Award (2009)
- > Marie Curie Individual Fellowship of the European Union (2001-2002),
- > Woldemar A. Weyl International Glass Science Award (2001).

Research impact

Sensors created by my team are being used to unlock the secrets inside objects as diverse as the human body, wine barrels and mineral exploration holes deep within the earth's crust. The transdisciplinary approach in the institute is enabling us to ask new questions in embryology and cancer treatment, and our strong partnerships with many industry partners (including Trajan Scientific and Medical) means there is a pathway to market for our innovative research.

Students I am currently supervising

Yunle Wei, Xuanzhao Pan, Hong Ji, Mengke Han, Carly Whittaker, Weikun Huang, Alireza Dareh Baghi, Mustaf Bekteshi and Marina Aburas

I chose to research in my field because

My transdisciplinary research in optical glass materials lies at the interface of physics, chemistry and materials science. It enables me to work with so many researchers from diverse fields across the world. Optical glass is a fascinating material and by understanding and modifying it we can create amazing solutions to the real world problems faced by our industrial partners.

My favourite part of being a supervisor is:

Guiding students on their adventure to discover new science and become independent researchers.

What makes a successful supervisor and student partnership?

I am passionate about research supervision and mentoring students in their career development. I believe regular two-way communication of research progress and creating a team atmosphere is key to a successful supervisor and student partnership.

Why research optical fibres at the University of Adelaide

Optical glasses and optical fibres and their applications are key areas of strength at the University of Adelaide The Institute for Photonics and Advanced Sensing fosters excellence in research in materials science, chemistry, biology and physics and develops disruptive new tools for measurement to solve problems for health, the environment, mining and defence.

Projects I am interested in

- > harnessing nanocrystal properties in optical glass
- > mid-infrared transmitting glasses and fibres
- > design and fabrication of novel optical fibres
- > developing 3D printing for future manufacturing industries.

My students have gone on to

Postdoctoral roles at leading research organisations worldwide. Others have started up companies based on their research or have secured employment with industry partners or defence organisations.

“Sensors created by my team are being used to unlock the secrets inside objects as diverse as the human body, wine barrels and mineral exploration holes deep within the earth's crust.”

Recent publications

1. H. Tronolone, Y.M. Stokes, H. Ebendorff-Heidepriem, “Extrusion of fluid cylinders of arbitrary shape with surface tension and gravity”, *Journal of Fluid Mechanics* 810, 127-154 (2017);
2. E. Klantsataya, P. Jia, H. Ebendorff-Heidepriem, T.M. Monro, A. François, “Plasmonic Fiber Optic Refractometric Sensors: From Conventional Architectures to Recent Design Trends”, *Sensors* 17 (1), 12 (Jan 2017);
3. J. Zhao, X. Zheng, E.P. Schartner, P. Ionescu, R. Zhang, T.-L. Nguyen, D. Jin, H. Ebendorff-Heidepriem, “Upconversion Nanocrystals Doped Glass: A New Paradigm for Photonic Materials,” *Advanced Optical Materials* 4 (10), 1507-1517 (Oct 2016);
4. S. Heng, C.A. McDevitt, R. Kostecki, J.R. Morey, B.A. Eijkelkamp, H. Ebendorff-Heidepriem, T.M. Monro, A.D. Abell, “Microstructured Optical Fiber-based Biosensors: Reversible and Nanoliter-Scale Measurement of Zinc Ions”, *ACS Applied Materials and Interfaces* 8, 12727-12732 (May 2016)

Biological Sciences

Reasons to conduct research in Biological Sciences at the University of Adelaide

- 1 World-class scientific expertise
- 2 Dynamic research environment
- 3 Equipped with state-of-the-art facilities and funded from both national and international sources

The School of Biological Sciences in the Faculty of Sciences brings together the internationally acclaimed and contemporary disciplines of cellular and molecular biology, ecology and environmental sciences, genetics and evolutionary biology.

It delivers undergraduate and postgraduate education, training and research with both national relevance and global outreach, and networks in the public and private sectors.

It is home to a number of world-class scientists, working with a wide range of experimental and natural systems, including animal, plant, fungal and microbiological systems.

Our researchers attract, on average, around AUD\$10 million in grant funding annually.

Research institutes

- > Environment Institute
adelaide.edu.au/environment

Research centres

- > Australian Bioactive Compounds Centre (ABCC)
bioactivecompounds.org
- > Australian Centre for Ancient DNA
adelaide.edu.au/acad
- > Australian Centre for Evolutionary Biology and Biodiversity
adelaide.edu.au/environment/acebb
- > Adelaide Proteomics Centre
biological.adelaide.edu.au/proteomics
- > ARC Centre of Excellence of Australian Biodiversity and Heritage (Adelaide node)
Cabah.org

- > Centre for Applied Conservation Science
adelaide.edu.au/environment/acs
- > Centre for Infectious Diseases
biological.adelaide.edu.au/rcid
- > Centre for Molecular Pathology
adelaide.edu.au/cmp
- > Sprigg Geobiology Centre
adelaide.edu.au/environment/sgc
- > Unmanned Research Aircraft Facility (URAF)
adelaide.edu.au/environment/uraf
- > Water Research Centre
adelaide.edu.au/environment/wrc
- > Zhendong Australia-China Centre for Molecular Traditional Chinese Medicine
biological.adelaide.edu.au/collab/

Research areas

- > Genetics and evolution
- > Ecology and environmental science
- > Molecular and cellular biology.

Postgraduate coordinators

Genetics and evolution
Professor Frank Grutzner
E: frank.grutzner@adelaide.edu.au

Ecology and environmental science
Associate Professor Rob Reid
E: robert.reid@adelaide.edu.au

Molecular and cellular biology
Professor Shaun McColl
E: shaun.mccoll@adelaide.edu.au
Dr Keith Shearwin
E: keith.shearwin@adelaide.edu.au

Further information or advice

To find a supervisor, submit a research proposal or learn more about areas of research, please visit: sciences.adelaide.edu.au/research

School of Biological Sciences
North Terrace campus,
The University of Adelaide,
SA, 5005, Australia
T: +61 8 8313 5352
E: biolsci@adelaide.edu.au



“Studying at the University of Adelaide has cultivated my interest in the area of biological sciences and given me the opportunity to work alongside many world-class scientists who are at the forefront of their research. The skills and knowledge that I have gained from my studies here have provided me with a strong foundation for a career in scientific research.”

Amanda Choo Yen Ying
BSc (Molecular Biology),
Honours and PhD

Supervisor Spotlight

Dr Iain Robert Searle

Genetics and Evolution



Fields of research

- > Plant epigenetics.

Awards

- > Marie Curie Fellowship
- > Wellcome Trust Fellowship
- > ARC QEII Fellowship
- > ARC Future Fellowship.

Students I am currently supervising

Samuel Deed, Trung Do, Jun Li, Xingyu Wu, Jing Zhao and Pei Ng.

I chose to research in my field because

Plants are essential for life. They provide the air we breathe and energy in our diets. I believe that epigenetics plays an important role in plant and grain (food) development.

My favourite part of being a supervisor is

When PhD students are excited by the discoveries they make in the laboratory and can't wait to tell someone.

What makes a successful supervisor and student partnership?

- > Clear and agreed expectations that are fulfilled
- > The supervisor's successful ability to assist students through the lows of PhD research - everybody has bad days
- > Supervisors that have an active interest in the student's career
- > Supervisors that can inspire and motivate students, and students that exceed the supervisors expectations.

Why research epigenetics at the University of Adelaide?

We have excellent biological, computational and genomic resources. We have fantastic model plant systems, for example *Arabidopsis thaliana*, to study plant epigenetics and complex crops to apply epigenetic-based yield improvement at the Waite campus. We have excellent high-performance computing resources in the School of Biological Sciences at the North Terrace campus and at E-Research SA.

Projects you may be interested in

- > discovering new RNA modifications that regulate plant yield
- > discovering novel long non-coding RNAs- the dark matter of the cell
- > using our EzyCross hybridisation system to produce new plant species.

My students have gone on to

Some have gone on to work in private biotech companies in China and international plant research centres in the UK.

Recent publications

1. Transcriptome-wide Mapping of RNA 5-Methylcytosine in *Arabidopsis* mRNAs and non-coding RNAs. (2017) David, R., Burgess, A., et al., *The Plant Cell*
2. Transposable elements (TEs) contribute to stress-related long intergenic noncoding RNAs in Plants. (2017) Wang, D., et al., *The Plant Journal*
3. Deciphering the epitranscriptome: A green perspective. (2016) Burgess et al., *Journal of integrative plant biology*
4. Origin and functional prediction of pollen allergens in plants. (2016) Chen, M., et al., *Plant Physiology*

“ We have fantastic model plant systems, for example *Arabidopsis thaliana*, to study plant epigenetics and complex crops to apply epigenetic-based yield improvement at the Waite campus. ”

Fees

The quoted fee is a base fee and may be subject to an annual increase for each of the subsequent years of the program. Information regarding fees and any subsequent increased fees will be included in the Offer of Admission letter for successful applicants.

Faculty/broad discipline	Program	2018 (per year) AUD
Engineering, Computer and Mathematical Sciences	Doctor of Philosophy (Engineering)	\$40,000
	Doctor of Philosophy (Maths and Computer Science)	\$36,500
	Master of Philosophy (Engineering)	\$40,000
	Master of Philosophy (Maths and Computer Science)	\$36,500
Health and Medical Sciences	Doctor of Philosophy	\$44,000
	Doctor of Philosophy (Nursing)	\$40,000
	Doctor of Philosophy (Public Health)	\$40,000
	Doctor of Nursing	\$40,000
	Master of Clinical Science	\$40,000
	Master of Philosophy (Clinical Science)	\$40,000
	Master of Philosophy (Dentistry)	\$44,000
	Master of Philosophy (Medical Science)	\$44,000
	Master of Philosophy (Ophthalmology)	\$44,000
	Master of Philosophy (Public Health)	\$40,000
	Master of Philosophy (Surgery)	\$44,000
Arts	Doctor of Education	\$32,500
	Doctor of Philosophy	\$32,500
	Master of Philosophy	\$32,500
Sciences	Doctor of Philosophy (Sciences)	\$40,000
	Doctor of Philosophy (Veterinary Science)	\$44,000
	Master of Philosophy (Sciences)	\$40,000
	Master of Philosophy (Veterinary Science)	\$44,000
The Professions	Doctor of Philosophy	\$36,500
	Master of Philosophy	\$36,500

International representatives

The University appoints agents to act as its official international representatives. Agents are located within Australia and in more than 40 countries/regions around the world. These representatives are appointed to:

- > provide accurate information about the University of Adelaide and its programs to prospective international students
- > advise on admission requirements and choice of programs
- > assist with verification of supporting documentation
- > assist with the processing and forwarding of the application, and the acceptance and payment, to the University
- > assist with visa application, travel, accommodation and pre-departure arrangements.

Countries/regions with University of Adelaide international representatives

Argentina	Costa Rica	Jordan	Oman	Thailand
Australia	Ecuador	Kenya	Pakistan	Turkey
Azerbaijan	Egypt	Korea (South)	Panama	United Arab Emirates
Austria	France	Kuwait	Paraguay	United Kingdom
Bahrain	Germany	Lebanon	Peru	United States of America
Bangladesh	Honduras	Libya	Philippines	Uruguay
Brazil	Hong Kong	Macau	Saudi Arabia	Venezuela
Brunei	India	Malaysia	Singapore	Vietnam
Cambodia	Indonesia	Mauritius	South Africa	
Canada	Iran	Myanmar	Spain	
Chile	Iraq	Mexico	Sri Lanka	
China	Italy	New Caledonia	Syria	
Colombia	Japan	Nigeria	Taiwan	



For a full listing of our international representatives and their contact details, visit: adelaide.edu.au/study/international/agents







For further enquiries

The University of Adelaide
SA 5005 Australia

Telephone: +61 8 8313 5208

Free-call: 1800 061 459

Online enquiries: adelaide.edu.au/student/enquiries



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Education Services for Overseas Students Act: The Education Services for Overseas Students (ESOS) Act 2000 provides consumer protection to international students studying in Australia. The Australian Government is committed to ensuring that students receive quality tuition, are treated fairly regarding payment of tuition fees and receiving refunds, and are offered support services to assist them to settle into Australia and complete their studies. The Act also requires that the University assist the government to check that international students comply with their visa conditions, and advise the Department of Immigration and Border Protection (DIBP) if its students breach visa conditions. More information is available on the University's ESOS website at: adelaide.edu.au/esos

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