

Higher degree research

Courses
2019



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Acknowledgement of Country

UTS acknowledges the Gadigal People of the Eora Nation and the Boorooberongal People of the Dharug Nation upon whose ancestral lands our campuses now stand. We would also like to pay respect to the Elders both past and present, acknowledging them as the traditional custodians of knowledge for these lands.

Message from the Vice-Chancellor

UTS is a forward thinking and dynamic university that marks the gateway to Sydney — Australia's economic, multicultural and creative global city. Our campus is in the heart of Sydney's vibrant creative precinct and next to its central business district, giving you access to all that the harbour city has to offer.

Our unique approach to learning and teaching will prepare you for tomorrow, in a way which is relevant today. Our staff are thought leaders and practical innovators with wide-ranging experience both inside and outside of the classroom. Our mentoring programs, internship experiences and Industry Doctorate Program will connect you with highly-skilled practitioners and top organisations. Our location and reputation will allow you to engage with world-class research teams and facilities, as well as relevant industry, government and community partners.

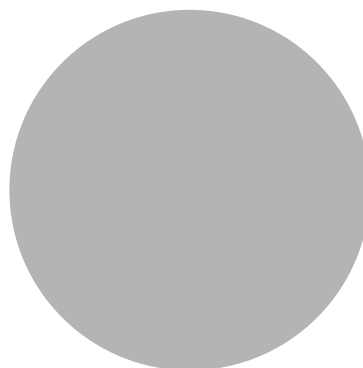
We invest in your success through our campus, scholarships and services. Our \$1.3 billion campus redevelopment plan has already delivered dedicated study spaces for research students, more student accommodation, and new buildings containing state-of-the-art equipment and facilities. We offer scholarships to help research students with their education and living costs. Our comprehensive range of support services and activities, many of which are free, ensure research students will remain connected and engaged within the UTS community through student events, workshops and presentations.

These are just some of the reasons why we're Australia's highest performing university under 50 years of age (Times Higher Education Young University Rankings 2017; QS Top 50 Under 50 2018). Ninety four per cent of UTS's broad research fields have been benchmarked at world standard or above by the Australian Government's most recent Excellence in Research for Australia (ERA) evaluation and UTS has been awarded five stars in the QS Stars™ rating system based on our high performance in research, graduate employability, teaching quality and infrastructure.

So if you're passionate about shaping the world we live in, we want you to join our growing community of world-class researchers. I look forward to welcoming you to UTS.



Professor Attila Brungs
Vice-Chancellor and President



Message from the Dean, Graduate Research School (GRS)

Thank you for considering the University of Technology Sydney for the next stage of your research journey.

UTS's graduate research programs are guided by our overall purpose to advance knowledge that informs and innovates academia, the professions, industry and communities.

UTS aims to:

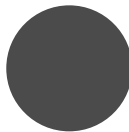
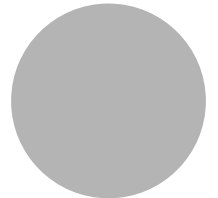
- produce the next generation of researchers who will work and lead in a range of contexts
- become known as the destination for training for research careers in industry
- provide all students with opportunities to engage with industry and communities

We offer masters by research and doctoral programs across our Faculties and Institutes.

This course guide provides you with an overview of our graduate research programs and the support available at UTS, it highlights the great work of our researchers and experiences of some of our current and recent research students, and it provides information about scholarship opportunities and the application process.

I hope you will choose UTS to further your research knowledge and skills. I look forward to welcoming you to become part of the UTS research community.

Professor Lori Lockyer
Dean of Graduate Research School



UTS rankings

QS TOP 50
UNDER 50 2019



in Australia



globally

QUACQUARELLI SYMONDS (QS)

**5 STAR
RATED**

for excellence
across all categories



QS Stars™ 2014-2017
QUACQUARELLI SYMONDS (QS)

**160
GLOBALLY**

World University
Rankings 2019

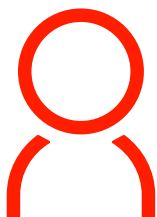
QUACQUARELLI SYMONDS (QS)

95%

of UTS research has
been benchmarked at
**world standard
or above**

AUSTRALIAN GOVERNMENT'S
EXCELLENCE IN RESEARCH FOR
AUSTRALIA (ERA) EVALUATION IN 2015.

2017 SNAPSHOT OF UTS



44,887

students enrolled at
UTS onshore and
outside Australia

14,289

international
students

1220

incoming study
abroad and
exchange students

560

UTS students
studying overseas
on exchange

FACT

The iconic UTS Tower Building is the tallest educational building in Australia at a whopping 28 stories high!

TOP 400 OVERALL

Academic Ranking
of World Universities
(ARWU) 2017

SHANGHAI JIAO TONG

RANKED 196

World University
Rankings 2019

TIMES HIGHER EDUCATION

YOUNG UNIVERSITY RANKINGS 2018



in Australia

16th

globally

TIMES HIGHER EDUCATION

880

UTS students studying
overseas on a
short-term experience

32,039

undergraduate
students

10,853

postgraduate
coursework
students

2007

postgraduate
research students

3632

full-time staff

Getting started

Choose the right degree for you

DOCTOR OF PHILOSOPHY

Course duration: 4 years

A Doctor of Philosophy (PhD) at UTS offers you advanced research training aimed specifically at a career in research. PhD programs can be undertaken through any UTS faculty, the Institute for Sustainable Futures or the Institute for Public Policy and Governance.

UTS INDUSTRY DOCTORATE PROGRAM

Course duration: 4 years

The UTS industry doctorate program is for students who wish to undertake a research project with an industry partner. Students in this program will gain experience working with industry and develop their knowledge and skills in communication, innovation and commercialisation. This experience provides students with a valuable base for a future career in industry.

For more information:
studentIDP.uts.edu.au

ATN INDUSTRY DOCTORAL TRAINING CENTRE

Course duration: 4 years

Students in the field of mathematics and statistics who have an interest in having or continuing a career in industry can apply to undertake a doctoral training program through the Australian Technology Network's Industry Doctoral Training Centre (ATN IDTC) in Mathematics and Statistics. The ATN IDTC connects PhD students with industry to address the current critical shortage of industry-focused and highly trained researchers in mathematical sciences and related disciplines. The student's research study focuses on 'real life' industry problems. It also gives industry employees the chance to update their qualifications and experience with a PhD. The ATN IDTC is the first such doctoral training centre in Australia.

For more information:
uts.edu.au/research-and-teaching/research-degrees/explore-uts-research-degrees/benefits-research-degree/atn

PROFESSIONAL DOCTORATE

Course duration: 4 years

Professional doctorate programs are designed for professionals who wish to undertake a research project related to their professional practice. These degrees comprise independent research combined with a structured program of coursework.

UTS currently offers professional doctorate in the following area of study:

- Doctor of Philosophy: Economics (international students only)

MASTERS BY RESEARCH

Course duration: 2 years

A UTS Masters by Research offers research training for those who want to undertake research that applies advanced knowledge in a particular context. This degree is also a pathway for further research study. Our online Find a Supervisor tool can help by matching your research interests to those of our leading academics who are also experienced supervisors.

Once you have chosen your degree, you will need to find a supervisor and develop your research proposal.

INTERNATIONAL COLLABORATIVE PHD DEGREES

UTS offers a number of international collaborative PhD degrees with its international Key Technology Partner and strategic partner universities across China, India, Europe and Latin America. Through these partnerships students have an opportunity to participate in dual or joint PhD programs across two universities. UTS also has other research partnerships with prominent institutions across the world that share mutual research interests. Students can enrol in joint PhDs at these universities.

For more information please see page 39 of this guide.

VISITING RESEARCH STUDENTS PROGRAM

Course duration: 1-4 sessions

The Visiting Research Students program is designed for students enrolled in a PhD or Masters by Research program at their home institution who wish to undertake research studies under supervision at UTS for one to four sessions. The studies completed at UTS will contribute to your home degree.

For more information please see page 40 of this guide.

Facts and figures

78.3%

of Australian-resident graduates were in
full-time or part-time employment
three months after completing study

AUSTRALIAN GRADUATE SURVEY 2015

**OUR STUDENTS
REPRESENT**

120

different nationalities

145

languages spoken

**EXCHANGE
AGREEMENTS WITH
MORE THAN**

267

universities in



countries and
territories

180
undergraduate

190
postgraduate
courses

40,645

students enrolled
at UTS

11,420

international students

200,000
UTS ALUMNI



Scholarships for domestic students

UTS offers a variety of scholarships to support you in your research studies

CHANCELLOR'S RESEARCH SCHOLARSHIP

Funded by the Commonwealth Government Department of Education and Training, the Chancellor's Research Scholarships are offered every year to highly ranked, newly-commencing doctoral students who demonstrate outstanding academic achievement and the potential to succeed in a research career. These prestigious scholarships are valued at \$35,000 AUD per annum for a period of up to three years.

UTS RESEARCH EXCELLENCE SCHOLARSHIPS

Funded by the Commonwealth Government Department of Education and Training, these scholarships are offered each year to highly-ranked, newly commencing doctoral students. These scholarships are valued at up to \$30,000 AUD per annum for a period of up to three years.

AUSTRALIAN GOVERNMENT RESEARCH TRAINING PROGRAM STIPEND

Funded by the Commonwealth Government Department of Education and Training, the Australian Government Research Training Program Stipends are open to highly ranked research degree students who demonstrate outstanding academic achievement and research potential. This scholarship is valued at \$27,596 AUD per annum (2019 rate, indexed), and is provided to assist with general living costs.

UTS DOCTORAL SCHOLARSHIPS (UTSD)

UTS Doctoral Scholarships are open to highly ranked research students who demonstrate outstanding academic achievement and research potential. These scholarships are valued at \$27,596 AUD per annum (2019 rate, indexed) and are provided to assist with general living costs.

QUENTIN BRYCE LAW DOCTORAL SCHOLARSHIPS

The Faculty of Law offers the Quentin Bryce Law Doctoral (QBLD) scholarships for commencing doctoral students to promote and reward quality research within the faculty. This scholarship is valued at \$40,000 per annum, with a research support fund of \$1,500 per annum. Applications for the QBLD require a separate application to the Faculty of Law before the advertised deadline.

SIR GERARD BRENNAN SCHOLARSHIP

This scholarship was established to honour the work of former UTS Chancellor Sir Gerard Brennan, AC KBE, who was also a former Chief Justice of the High Court of Australia. Throughout his career, Sir Gerard demonstrated his commitment to people of Aboriginal and Torres Strait Islander descent. The scholarship provides newly commencing Indigenous Australian students of exceptional research potential undertaking Higher Degree by Research in the Faculty at Law at UTS with a maximum stipend of \$50,000 AUD (currently tax-free) for a period of three years for Doctoral candidates, and two years for Master's by Research candidates, to assist with general living costs.



THE ROSS MILBOURNE RESEARCH SCHOLARSHIP IN ECONOMICS

The Ross Milbourne Research Scholarship in Economics is funded by the University of Technology Sydney (UTS) in honour of Professor Ross Milbourne to support students of exceptional research potential to undertake a higher degree by research in a field of economics at UTS. The scholarship is provided to assist with general living costs at the value of \$30,000 AUD per annum for a period of three years for Doctoral candidates, and two years for Master's by Research candidates.

JUMBUNNA POSTGRADUATE RESEARCH SCHOLARSHIP

Funded by the Commonwealth Government Department of Education and Training and Jumbunna Institute for Indigenous Education and Research, this scholarship is offered to commencing Indigenous Australian students of exceptional research potential to undertake a higher degree by research at UTS. Preference is given to students who are completing a research project that has the potential to benefit Australian Aboriginal people and/or Torres Strait Islanders. The scholarship amounts to \$50,000 AUD per annum, and is provided to assist with general living costs.

FIND OUT MORE

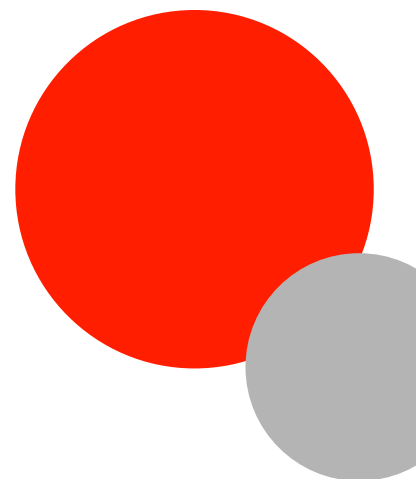
UTS is continually supporting various scholarship schemes and funding opportunities, and making new scholarships available to research students.

All scholarship applications are competitive. They are open to domestic students who meet the specific scholarship selection criteria and who have received or are eligible to receive admission to a course at UTS.

For more information on these additional scholarships, please contact your potential supervisor and/or faculty research office:
uts.edu.au/research-and-teaching/research-degrees/fees-and-scholarships/contact-us

For more information, eligibility criteria and scholarship conditions, please visit our scholarships web page:
uts.edu.au/research-and-teaching/research-degrees/fees-and-scholarships/scholarships

or contact the Research Scholarships Team at the Graduate Research School:
research.scholarships@uts.edu.au



Scholarships for international students

UTS offers a variety of scholarships to support you in your research studies we partner with organisations around the world to provide scholarship opportunities: External scholarships

Australian Government

AUSTRALIA AWARDS

Funded by the Australian Government, the Australia Awards Scholarships are available to international students to study at Australian universities in target study areas set by their home country's government. These scholarships help students, particularly from countries in the Indo-Pacific region to gain qualifications that will allow them to contribute to the development outcomes of their country. The scholarships cover both living allowance and tuition fees.

ENDEAVOUR LEADERSHIP PROGRAM

The Endeavour Leadership Program (ELP) is the Australian Government's two-way mobility for short and long-term study, research and professional development with Australia's priority partner countries. The ELP supports Australia's first National Strategy for International Education 2025, which sets out a 10-year plan for developing Australia as a global leader in education, training and research, through making transformative partnerships, and expanding student, education and training professional and research mobility. The ELP provides opportunities for established and emerging leaders to undertake a global mobility experience within their study, research or professional field. Endeavour Leaders will have the opportunity to build enduring international networks, strengthen education and research engagement between Australia and priority countries, and enhance Australia's commercial success and economic prosperity.

Funding will support high performing individuals, tertiary providers and their students from around the globe the opportunity to undertake study, professional development or research and increase their expertise in their field.

Government and UTS

INTERNATIONAL RESEARCH TRAINING PROGRAM SCHOLARSHIP (IRTP)

Funded by the Australian Government, Department of Education and Training, the International Research Training Program Scholarship (IRTP) is open to highly ranked, newly commencing Doctoral Research Degree (PhD) students who demonstrate outstanding academic achievement and research potential. The IRTP covers the tuition fees, the cost of a standard Overseas Student Health Cover (OSHC) for the scholarship holder, their spouse and dependants (if any), and a living stipend at the minimum Australian Government established indexed rate. The scholarship covers the scholarship holder's tuition fees and a living stipend at the minimum Australian Government Research Training Program Scholarship, valued at \$27,596 AUD per annum (2019 rate, indexed) for a period of three years, as well as the cost of a standard Overseas Student Health Cover (OSHC) for the scholarship holder, their spouse and dependants (if any) for the total duration of their candidature.

INTERNATIONAL RESEARCH SCHOLARSHIPS (IRS)

UTS International Research Scholarships are open to highly ranked research students who demonstrate outstanding academic achievement and research potential. This scholarship covers tuition fees.

UTS PRESIDENT'S SCHOLARSHIP (UTSP)

UTS President's Scholarships are open to highly ranked research students who demonstrate outstanding academic achievement and research potential. The scholarships are valued at \$27,596 AUD per annum (2019 rate, indexed) for a period of three years for Doctoral candidates, and two years for Master's by Research candidates, and are provided to assist with general living costs.

THE ROSS MILBOURNE RESEARCH SCHOLARSHIP IN ECONOMICS

This scholarship is funded by the University of Technology Sydney (UTS), and was established in honour of Professor Ross Milbourne to support students of exceptional research potential undertaking Higher Degree by Research in the field of economics at UTS. The scholarship is provided to assist with general living costs at the value of \$30,000 AUD per annum for a period of three years for Doctoral candidates, and two years for Master's by Research candidates.



CSC-UTS PHD SCHOLARSHIP – CHINA

CSC-UTS PhD Scholarships are a product of the collaborative relationship between the China Scholarship Council (CSC) and UTS, and are open to students who are citizens or permanent residents of the People's Republic of China. Under this scheme, UTS offers up to 20 tuition fee scholarships per year, for a period of up to four years for Doctoral candidates, and two years for Master's by Research candidates.

INDONESIAN ENDOWMENT FUND FOR EDUCATION (LPDP)

The collaboration between Australian Technology Network of Universities (ATN) partners and the Indonesian Endowment Fund for Education (LPDP) offer scholarships to Indonesian students undertaking a research degree at UTS. This scholarship is open to Indonesian citizens applying for a Master's by Research or PhD program. LPDP scholarship recipients may also be provided with a 10 week pre-session training course if required.

FIND OUT MORE

UTS is continually supporting various scholarship schemes and funding opportunities, and making new scholarships available to research students.

All scholarship applications are competitive. They are open to international students who meet the specific scholarship selection criteria and who have received or are eligible to receive admission to a course at UTS.

For more information on these additional scholarships, please contact your potential supervisor and/or faculty research office: uts.edu.au/research-and-teaching/research-degrees/fees-and-scholarships/contact-us

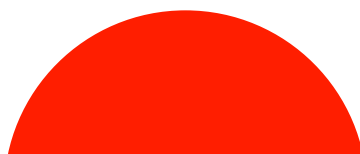
For more information, eligibility criteria and scholarship conditions, please visit our scholarships web page: uts.edu.au/research-and-teaching/research-degrees/fees-and-scholarships/scholarships

or contact the Research Scholarships Team at the Graduate Research School: research.scholarships@uts.edu.au



RAVIRO CHINEKA, GHANA
PhD, Education

"Without a scholarship I wouldn't be here, as I couldn't afford the fees. The scholarship pays for my living allowance and covers health insurance for both myself and my family."



The Graduate Research School support services

UTS GRADUATE RESEARCH SCHOOL

The UTS Graduate Research School (UTS GRS) is the central support unit for Higher Degree by Research (HDR) students at UTS. From the initial application and admission stage to development of your early research career skills, the GRS team are dedicated to assisting you with managing your candidature, scholarships and study queries. The School also provides you with access to a range of courses, workshops and resources to help develop your skills and knowledge as a researcher throughout your research degree. GRS arranges and manages social events for you to help you settle effectively into the UTS research community.

GRS, with staff in faculties and research centres work together to provide education and support for HDR students. The overall approach is supported through the UTS framework for graduate research education. This framework provides guidelines to support research students to advance their knowledge and development as a researcher in their field of study. The framework also provides a graduate research study plan, which is a useful planning and discussion tool for you and your supervisor/s.

For more information:

uts.edu.au/research-and-teaching/research-degrees/uts-research-environment/support-research-students

UTS GRADUATE RESEARCH SCHOOL (GRS) RESEARCH STUDENT DEVELOPMENT WORKSHOPS

GRS runs a series of research student workshops that are categorised under various programs throughout the year. The programs (see below) aim to support your progression through the UTS Framework for Graduate Research Education and to develop your capacity as a researcher, by building your knowledge and skills in research practice.

General Research Development Program

Research workshops in this program will support you throughout the three stages of your candidature, commencing with Research Orientation through to submitting your thesis and planning your career beyond your research degree at UTS. These workshops provide you with the necessary skills that will assist you in both academic and practical ways as a researcher.

Research Literacies Program

The Research Literacies (RL) Program comprises a series of interactive workshops that are offered twice a year. RL workshops focus on the research communication skills needed to help you further the knowledge required to progress through your candidature and beyond as established researchers. In addition, RL Summer/ Winter Schools and Thesis Boot Camps are held in block mode at various stages throughout the year.

Qualitative Research Methods

In five intensive short courses, students learn the fundamental knowledge and practical skills in designing and conducting qualitative research. Students are introduced to a range of research designs, methods of data collection and data analysis, and standards of validation. The stream is organised as five short courses offered throughout the year:

1. Foundational Issues in Qualitative Research
2. Methods of Data Collection
3. Methods of Data Analysis
4. Strategies of Inquiry
5. Research Design

Quantitative Research Methods (Statistics)

GRS runs a series of workshops to foster statistical planning in the design and conduct of a quantitative research study. Students are encouraged to develop proficiency in the statistical software of their choice. The stream is organised as 3 quantitative short courses which are offered in block mode:

- Design and Analysis of Questionnaire Surveys
- Design and Analysis of Experiments
- Statistical Analysis and Data Modelling

KickStart@UTS Program

KickStart@UTS supports international higher degree research (IHDR) students in their first six months at UTS. The program consists of a Welcome Day and four weeks of 2-hour workshops. Students are introduced to language and cultural tools that they could use in research, learning and living in the broader Australian community. Students will find out where to go for help with their research, how to make the most of the various support services available and develop networks at UTS.

ONLINE RESOURCES

The GRS also offers a range of online resources. The e-Grad School Australia is a joint initiative provided by the Australian Technology Network (ATN) of Universities. This virtual graduate school offers a range of flexible online courses and resources for research students. The courses complement the existing research development program for research students. **Lynda.com** is a vast online library of instructional videos covering the latest in technology, creative, and business skills taught by accomplished teachers and recognised industry experts. Useful Resources & Information for HDR Students is a UTS Online site that supports your development as a researcher through videos, tutorials and other resources that are developed and maintained by GRS.

RESEARCH STUDENT SOCIAL NETWORKING PROGRAM

The School organises regular free social activities for research students which includes monthly coffee catch-ups, dinners and annual parties. These activities help you settle into the research community effectively and provide opportunities for you to network with research students across faculties. You can also join weekly research student-led activities on campus.

AUSTRALIAN POSTGRADUATE RESEARCH INTERN PROGRAM

The APRI Intern Program is designed to build links between UTS and those in industry, business and government seeking superior analytical expertise from high-level research students. You will be able to apply for a paid 3-4 month internship at leading industry organisations working on a project with your supervisor and industry partner both onsite and at UTS. You will have the opportunity to transfer your theoretical knowledge to real-life applications.

STAFF CONNECT

Staff Connect is UTS's intranet and is available to UTS staff and HDR students. You will be able to find answers about how to manage your scholarship, candidature administration, researcher development program and more. You will have access to the intranet after you are enrolled at UTS.



Faculty of Arts and Social Sciences

uts.edu.au/about/faculty-arts-and-social-sciences/research/research-faculty/postgraduate-research-uts-faculty

communication | education | international studies



Welcome from the Director of Research Training, Professor Alan McKee

The arts and social sciences have a long and storied history – but like all disciplines, they're being transformed by new developments in technology and the changing political landscape.

In the UTS Faculty of Arts and Social Sciences, our work reflects both the history and the future of these bedrock research disciplines. As a postgraduate student in our faculty, you can work in traditional, contemporary or emerging fields – from professional practice to STEM education futures to climate justice, to name a few – and build advanced research skills that will prepare you for academic, professional and creative arts careers.

But you won't stop there. You'll also learn to think beyond traditional boundaries – to work within and across disciplines, to share knowledge in new and challenging ways, and to produce research that changes the nature of knowledge.

And you'll be in just the right place to do it: our language, communication and culture, STEM (science, technology, engineering and mathematics) education, linguistics and political science have all been ranked above world standard, so you'll be working within and alongside academic teams who are producing some of the best research in the field.

Research in FASS

EDUCATION

Practice, learning, change and innovation – these are the fundamental concepts that drive our research agenda. Our STEM Education Futures Research Centre is advancing knowledge in the fields of STEM education, including technology-enhanced learning, innovative futures and effective practices in science and mathematics teaching. Education researchers are leaders in teacher professional learning, intercultural education, social justice, multimodal communication, applied linguistics and multi-literacies and numeracies. Our research – and reputation – is driven by an internationally acclaimed academic team who are leaders in STEM education, workplace learning and professional practice studies and linguistics.

education.uts.edu.au

COMMUNICATION

The School of Communication is young, vibrant and committed to the creation of knowledge. Intellectual enquiry and creative and digital literacies are the foundation of our postgraduate research degrees. Our supervisors are world leaders in the field of communication, combining traditional academic pursuits with hands-on industry experience to deliver research that responds directly to real-world challenges. We're home to leading research centres in both Climate Justice and Public History, both of which support postgraduate research, and we also offer supervision across the social and political sciences, music and sound design, journalism, communication measurement and evaluation, and media arts production.

communication.uts.edu.au

INTERNATIONAL STUDIES

We live in an increasingly global community – which means that the need for research that explores the world beyond our borders is more pressing than ever. In the School of International Studies, we're known for our work on societies and cultures across the globe – think cultural studies, geography, urban studies, politics, migration studies, transnational histories, aesthetics, literary studies and gender studies. We're also leaders in the fields of languages education, intercultural communication, linguistic landscape research, and academic English. When you study with us, you'll work among leading international scholars in a supportive research environment – a place where your thirst for knowledge will be right at home.

uts.edu.au/future-students/international-studies



Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Education)	C02041	015943G
Doctor of Philosophy (Humanities and Social Sciences)	C02019	014627E
Doctor of Philosophy (International Studies)	C02039	043350M
Doctor of Creative Arts	C02020	014625G
Doctor of Education	C02050	066824C
Master of Arts in Humanities and Social Sciences (Research)	C03018	014624G
Master of Creative Arts (Research)	C03044	066173M
Master of Education (Research)	C03047	040690D
Master of Arts in International Studies (Research)	C03034	043338G



HENRY BOATENG

Doctor of Philosophy candidate
Digital Information Management
Supervised by Bhuvu Narayan (PhD)
and Hilary Yerbury (PhD)

For postgraduate research student Henry Boateng, UTS was the logical choice when it came to pursuing a PhD in digital information management.

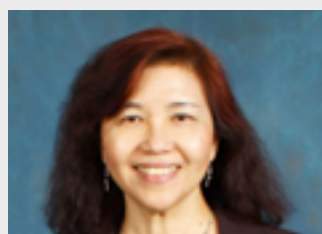
"I'm convinced that UTS is one of the best young universities in the world because of the excellent track record of the Faculty and [its] research fellows," he says.

"I was also particularly aware of the international reputation UTS has as a hub for world-class education and research as manifested in the world university rankings."

Combined with his work as a research assistant within the Faculty, Henry's PhD has been a launching pad into the immersive world of academia. He's supervised by Dr Bhuvu Narayan and Dr Hilary Yerbury, whose expertise has helped him build advanced research skills.

"They have always tried to bring the best out of me, [helping] me to understand qualitative research and the social constructionism worldview [and to build] skills in literature review," he says.

And Henry's done much more than just hit the books – he's also started building an impressive publication record – and professional profile – for himself, with more than 20 journal articles to his name. His recent work includes an article on consumers' attitudes and behaviours towards social media advertising. Not only was it published in the Journal of Research in Interactive Marketing, but it resulted in Henry being Highly Commended for his work in the 2016 Emerald Literati Network Awards for Excellence.



ASSOCIATE PROFESSOR WAN NG

BSc, PhD, Dip Ed, Grad Cert Gifted Ed,
School of Education

We've all read about it – the perilous relationship between young people and technology. But for Associate Professor Wan Ng, technology is about much more than device addictions, selfies and Instagram stories: it plays a critical role in the learning process for young adults.

As the Director of the STEM Education Futures Research Centre in the Faculty of Arts and Social Sciences, Wan's research program is focused on how young people use technology to learn, and how digital literacy and multiliteracies can be used for individual empowerment.

Her love of learning has been the foundation of an impressive career. Long before research came calling, Wan taught in schools for almost 10 years, before turning her passion for education into a PhD. A postdoctoral research position at Monash University followed, as did more senior academic roles like Associate Dean (International), Faculty Chair of Human Ethics Committee and School Research Coordinator at institutions including La Trobe University and the University of New South Wales.

Today, leading one of UTS's newest research centres, Wan is delving deep into the issues she really cares about: science education and digital technology education with an emphasis on mobile learning; and sustainable pedagogy, enabled by technology that leads to improved learning outcomes for students.

A prolific writer who reaches audiences around the world, Wan is also sharing what she knows – her most recent publications include two sole-authored books titled 'Empowering Scientific Literacy through Digital Literacy and Multiliteracies' and 'New Technology in Education: Conceptualising Professional Learning for Educators'.

UTS Business School

uts.edu.au/future-students/business/business-courses/postgraduate-research-phd

accounting | business analytics | economics | finance |
health economics | management | marketing



Welcome from the Director (Postgraduate Research), Associate Professor Deborah Edwards

Are you driven by the desire to create knowledge with impact? To understand and challenge the biggest and most complex issues faced by societies, business and government?

At UTS Business School we work with you to produce innovative, world-class and cross-disciplinary research which is not only academically excellent, but which also impacts the world in which we live.

Spanning all major business disciplines, our PhD program prepares you to identify and challenge critical research questions, and execute research with sufficient rigor to ensure results are robust, meaningful and carry impact.

By paying close attention to the skills you as an individual need to develop, the program aims to develop you as a world-class researcher, and in doing so, equips you to not only conduct excellent research now, but into the future.

All our PhD candidates are supervised by a committee of at least three academics, one of whom can be from another discipline to the one in which the candidate is based.

As a PhD student within UTS Business School, you will have access to an unparalleled program of supportive activities and schemes during the period of your study. To enhance your experience and research outcomes, we offer a variety of funding schemes including conference attendance, fieldwork, writing/editing needs, publication agenda, equity program and other costs you may incur while completing your thesis. We also offer funding for you to travel on exchange to collaborate with world-leading researchers at UTS's international partner institutions, and you can apply for our publication scheme that provides payment for accepted journal articles or submissions while your thesis is under examination. We continuously encourage and recognise excellent research performance at UTS Business School, and hope you will join us for your PhD studies.

RESEARCH CENTRES

Centre for Health Economics Research and Evaluation: looks at the development and application of health economics and health services.

Centre for Policy and Market Design: focuses on the application of economic principles to the design of markets and associated institutional mechanisms.

Centre for Business and Social Innovation: focuses on innovation that integrates the technical, the economic, the environmental and the social to nurture a culture of innovation in Australia.

Centre for Business Intelligence and Data Analytics: aims to improve the use of "big data" in tackling key challenges faced by companies, governments and communities.

Quantitative Finance Research Centre: a cross-faculty, transdisciplinary collaboration working to create world-class research in finance.

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Accounting, Business Analytics, Finance, Health Economics, Management, Marketing)	C02048	058221G
Doctor of Philosophy (Economics)	C02058	085255G



SUMATI AHUJA

PhD candidate, supervised by Prof Stewart Clegg

I am currently completing my PhD at UTS in the Management Discipline Group and have developed some fantastic working relationships with my supervisors and the research faculty.

My thesis investigates the implications of changes to the nature of work on the professionals' identity. I examine one expert group - architects - in an era characterized by increasing scepticism of experts and professional expertise. Understanding how people construct their workplace identity and expertise in dynamic social contexts is important because changes to the nature of work challenge the ways in which professionals perform work and impact workers self-esteem and wellbeing. I was fortunate to receive the best paper award in 2017 for my article in Journal of Professions and Organizations.



PROFESSOR TALIS PUTNINS

B. Fin., B. Eng (IT&T) (Hons), PhD

Talis Putnins is a Professor in the Finance Discipline Group at UTS and a member of the Quantitative Finance Research Centre. His research has been published in leading international peer-reviewed journals including the Journal of Financial Economics, Management Science, Journal of Financial and Quantitative Analysis, Journal of Financial Intermediation, Review of Finance, and Experimental Economics. He consults to governments, stock exchanges and financial institutions and has served as an expert witness in legal cases. Professor Putnins' research interests include financial markets, market microstructure, market manipulation, insider trading and shadow economies.

Connected Intelligence Centre

utscic.edu.au/research/phd

learning | data science | analytics | visualisation | pedagogy | ethics |
human-centred design



Welcome from the Director, Professor Simon Buckingham Shum

The Connected Intelligence Centre (CIC) is an innovation centre to build the capacity of UTS staff and students to gain insights from new forms of digital data. Our Learning Analytics work combines Design and Research — the practical challenge of designing innovative, usable data science and analytics tools for UTS students and staff, with deep reflection and research on the role of data in learning.

CIC launched the world's first Doctoral Program dedicated to Learning Analytics in 2016. Learning Analytics is the use of computational techniques to provide timely feedback to learners and educators. How can we do this in ways that build “21st Century skills” in UTS students — the creative, critical minds and interpersonal qualities needed for engaged learning, employment and citizenship?

All CIC's Learning Analytics projects are in close partnership with teaching and research academics across UTS, who provide authentic use cases and testbeds for our research. As a PhD student you will be joining a dynamic team who value transdisciplinary thinking, and take pride in real world impact.

We provide teaching/mentoring opportunities in our courses, internal and external projects to engage with, and connections into the national and international communities.

RESEARCH AREAS

- Natural Language Processing for Writing Analytics
- Multimodal Analytics for Collocated Collaboration
- Social Learning Analytics
- Dispositional Learning Analytics
- Participatory Design Processes for Learning Analytics

MULTI-INSTITUTION COLLABORATIONS

- Australian Government/Office for Learning & Teaching has funded collaborative projects with numerous other Australian universities
- Australian Technology Network – Learning & Teaching Innovation
- International research conferences and workshops

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy	C02062	088537F



SOPHIE ABEL

Doctoral Candidate, Learning Analytics

Sophie Abel is a PhD student in Learning Analytics in CIC. Her research is on Writing Analytics which makes use of analytical techniques to provide automated feedback on student writing. She is investigating how Writing Analytics can be used to help support Higher Degree Research (HDR) students with their research writing.

“Thesis writing is a high stakes activity and new research funding restructures tied to timely completion rates, mean that HDR students are under increased pressure to publish during their candidature and finish their doctorate on time. This increased pressure requires HDR students to write about their research effectively and quickly. Writing Analytics is one approach that could be leveraged to help students with their research writing. Writing Analytics focuses on supporting student writing practices by providing automated formative feedback. This feedback allows students to reflect on what they have written and revise their writing.”

“I chose to do a PhD at CIC because my research interests in analytical tools and developing student writing aligned well with CIC’s focus on the theory, design and evaluation of Human-Centred Analytics in Education.”



CARLOS PRIETO

Doctoral Candidate, Learning Analytics

Carlos Prieto Alvarez is a PhD candidate in Learning Analytics at CIC. His research aims to support learners, tutors and researchers in the design process of data-driven innovations. Outcomes from his research work will help future practitioners to make learning analytics design more inclusive, democratic and efficient. Currently, Carlos’ work is helping students in Data Science program and Nursing to design, build and collaborate using data as an ally in their careers.

“Being part of CIC’s research team helped me to develop my topic in co-design for a new exciting field like Learning Analytics. Including learners and other stakeholders in this process is a huge challenge, luckily my supervisors and colleagues are always happy to participate and provide useful insights”

Faculty of Design, Architecture and Building

uts.edu.au/future-students/design-architecture-and-building/find-your-career/change-your-future-research

design | architecture | built environment



Welcome from the Associate Dean of Research, Professor Charles Rice

We invite you to pursue a PhD or Masters by Research in design, architecture or the built environment at the University of Technology Sydney, the 1st in Australia in the QS Top 50 under 50 in the QS GLOBAL index of newer universities.

Why undertake a research degree with us? You may have the drive and determination to become a knowledge leader in sustainable urban development. Maybe you want to influence our understanding of design history. Or you might want to research how the construction industry can leverage emergent fabrication technology.

UTS's Faculty of Design, Architecture and Building research degree programs offer the opportunity to combine research skills with your passion. We also encourage students to work across multiple disciplines, like our PhD candidate Endriana Audisho whose research involves both architectural investigation and issues of media representation. Many of our supervisors have had substantial posts and experience overseas. As a result, many of our students have been able to work and study internationally, in structured settings.

DAB academics have a very strong basis in the critical theory and history of their disciplines, as well as practice-led and practice-based approaches. Under the guidance of an experienced supervisor, you will become recognised as an expert in your chosen area. You will have the knowledge, profile and connections to advance your career whether in academia or industry.

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Design, Architecture, Built Environment)	C02001	032316D
Master of Design (Research)	C03012	030867M
Master of Built Environment (Research)	C03002	008674D
Master of Architecture (Research)	C03001	008672F



BARNABY BENNETT

PhD candidate, supervised by Professor Desley Luscombe

Barnaby Bennett's PhD is based on his involvement with and examination of the temporary architecture that served the city of Christchurch after devastating earthquakes hit in 2010 and 2011.

"I chose to study at UTS because my research interests in design and activism aligned well with UTS's focus on social justice," Barnaby says.

"My original topic was on activism in architecture, but then the large February earthquake hit Christchurch one week after I started the PhD, and it quickly became clear there was an enormous opportunity to study the city as it grappled with the scale of the problems."

"My research examines the relationship between temporary architecture and the bringing into being of publics – groups of individual people – in post-quake Christchurch," Barnaby says.

"I was involved as a practitioner with several of the temporary projects and became part of a community working on socially and environmentally focused aspects of the rebuild."

"My research afforded me with an incredible opportunity to contribute to the recovery in Christchurch, and to draw out lessons for other places dealing with complexity and uncertainty," he says.

"Undertaking higher degree research is an immense privilege, and it has provided me with a rare opportunity to think deeply and slowly."

He was co-supervised by Dr Jacquie Lorber-Kasunic, Dr Jacqueline Gothe and Dr Ryan Reynolds (University of Canterbury, New Zealand).



DR JULIE JUPP

B Sc, B Arch, PhD

Dr Jupp is an expert in computer integrated construction with an academic background in architecture. Jupp's research focuses on construction informatics and the application of innovation in the context of large construction projects, encompassing building information modelling (BIM), product lifecycle management (PLM), and multidisciplinary design optimisation. Julie's research, teaching, and managerial experience, obtained in the construction industry over a 20-year period, provides a unique skill-set spanning practical and theoretical work. Jupp has managed and participated in over AUD \$1.5 million of government and industry funded research, and is a member of editorial review boards for a number of high-ranking international journals.

Jupp is currently collaborating with industry partner, Hansen Yuncken on Process-oriented Construction Systems Integration. "In a series of construction project case studies, we are developing and testing new adaptive process-driven approaches to information management throughout the project lifecycle," says Jupp.

"Technologies like BIM and PLM are incredibly valuable as they open up the potential to increase construction productivity, by enabling greater levels of collaboration and optimisation of information flows throughout the process."

As a research supervisor, Jupp appreciates all types of research collaboration, and finds supervising top-ranking Masters and PhD students particularly enjoyable. "My approach is to provide the right balance of technical and moral support when needed, while also deliberately holding back and allowing students to develop their own theories and academic identities."

Faculty of Engineering and Information Technology

uts.edu.au/about/faculty-engineering-and-information-technology/what-we-do/research

civil and environmental engineering | electrical and data engineering |
mechanical and mechatronic engineering | software |
information, systems and modelling | biomedical engineering



Welcome from the Associate Dean of Research, Professor Michael Blumenstein (Research Strategy and Management)

The Faculty of Engineering and Information Technology at UTS is a research intensive faculty whose work focuses on delivering solutions to real world problems and pioneering new technology areas. We offer PhD and Research Masters degrees across all our research strengths. More than 800 research candidates work within the Faculty, supported by a program that aims to develop both research and professional skills.

The Faculty is home to seven university level research centres and six Schools, with diverse areas of expertise ranging from advanced data analytics and quantum computation to energy policy and wastewater treatment. It provides a collaborative and lively research culture in which students can develop. The Faculty received a “well above world standard” rating for its research quality in biomedical engineering, and “above world standard” rating for all IT disciplines in ERA 2015 (Excellence in Research for Australia).

Our researchers, recognised as leaders in their fields, are responsible for delivering innovative, original and cost-effective solutions to tomorrow’s complex engineering and IT challenges. Our students undertake graduate research with these world-class academic supervisors in a diverse range of study areas.

Our research candidates are based in the strikingly creative Engineering and IT Building. This opened in mid-2014 and features outstanding facilities, including state-of-the-art laboratories and the UTS Data Arena – an immersive, 360 degree interactive data visualisation facility that changes the way researchers view and interact with data, reflecting the Faculty’s position at the cutting edge of innovation and technology. Our facilities continue to develop, and our new Tech Lab, based in Botany, opened in 2018, and is designed to be an engineering focussed research hub, offering greater collaborative opportunities and links to industry for HDR students and academics.

If you have a passion for impact-driven and collaborative research, plus an interest in our areas of specialisation, I encourage you to take a look at our courses and make an enquiry. You could be leading the next breakthrough.

I look forward to welcoming you to UTS.

RESEARCH STRENGTHS

Our research priorities are broadly aligned with our University level Centres and our Faculty Centres.

Our University-level Centres are as follows:

- **Advanced Analytics Institute:** innovation, practice-driven analytics, decision-making research and services in broad-based analytics areas.
- **Centre for Health Technologies:** health and disease processes, biomedical engineering, and detection and diagnosis of a range of disease states.

- **Global Big Data Technology Centre:** an international centre of excellence for the development of enabling technologies for big data science and analytics, working closely with industry and communities to deliver real-world impact.
- **Centre for Autonomous Systems:** electrical machines and power electronics, integrating mechanical, electrical and electronics engineering and computer systems.
- **Centre for Quantum Software and Information:** development of software and information processing infrastructure for future quantum technologies.
- **Centre for Artificial Intelligence:** computational intelligence, business intelligence, computer vision, data science, machine learning, brain computer interface, social robotics and information systems.
- **Centre for Technology in Water and Wastewater:** management of water resources in urban and rural environments.

Our existing and emerging research strengths are as follows:

- Additive Manufacturing
- Persuasive Systems for Wise Adaptive Living (PERSWADE)
- Centre for Advanced Geospatial Information Systems (CAGIS)
- Energy and Environment
- Cyber Security
- Centre for Audio, Acoustics and Vibration (CAAV)
- Centre for Indigenous Technology Research & Development (CITRD)

Information Technology research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Computer Systems)	C02047	058666A
Doctor of Philosophy (Software Engineering, Analytics, Information Systems)	C02029	009469A
Master of Analytics (Research)	C03051	075277F
Master of Science in Computing Sciences (Research)	C03025	001121E

Engineering research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Engineering)	C02018	036570B
Master of Engineering (Research)	C03017	009468B



LAM DINH NGUYEN

PhD candidate supervised by Dr Behzad Fatahi

Lam Dinh Nguyen is a PhD candidate in the School of Civil and Environmental Engineering and a member of Geotechnical Engineering Research Group. The aim of his PhD study is to provide an accurate and reliable prediction tool to simulate the behaviour of improved soft clay.

“Several new road and rail infrastructure should be built on soft estuarine clays in Australia. My research is about stabilising soft clays with chemicals and geofibres to improve both strength and stiffness of the ground supporting the structural loads.”

Nguyen chose to study his PhD at UTS because of the university's high quality laboratories and their linkages with industry.

“UTS offers recognised world class laboratories and computer simulation facilities to tackle pertinent and practical industry problems. The Geotechnical Engineering research group at UTS is well linked with industry, conducting research with practical outcomes.”



BELLA BASAGLIA

PhD candidate and faculty scholarship and Top-Up recipient, supervised by Professor Keith Crews

“I am researching the use of long span timber floor systems for multi-storey buildings and looking at how we can take advantage of various connections between adjacent floor panels and supporting structures to see if we can optimise floor design”, says Bella Basaglia, PhD candidate from Centre for Built Infrastructure Research.

“Most commercial building tenants prefer open plan work-spaces with fewer columns or walls and so the length of the unsupported floor becomes greater. Because timber is light, the floors are easily excitable when people walk on them, and as a result, produce annoying vibrations. These vibrations govern the design of these floor systems and because there are no guidelines on vibration designs of long span timber floors, structural engineers often over-design the structural elements.”

The aim of Basaglia's project is to produce a vibration design guide that can be used by structural engineers specifically for designing long span timber floors.

Basaglia chose to study her PhD at UTS because of the fond memories she had from her days as an undergraduate student at UTS. “I did my Bachelor's with UTS Engineering and I never felt I was just a 'number' so when I was approached by my supervisor with an opportunity to study a research degree with him, I couldn't turn down the opportunity.”

UTS Graduate School of Health

gsh.uts.edu.au

Clinical Psychology | Orthoptics | Pharmacy | Physiotherapy | Genetic Counselling |
Speech Pathology | Indigenous Health



Welcome from Associate Professor Toby Newton-John, Director of Research and Innovation

Come and join a School that's leading the way in innovative health research.

What sets us apart at the UTS Graduate School of Health (GSH) is our unique blend of allied health disciplines. As a new School, we are at the forefront of innovation, bringing together areas of expertise in clinical psychology, pharmacy, physiotherapy, orthoptics, genetic counselling and speech pathology.

As the only Graduate School of Health in Australia to combine these disciplines, our students have a unique exposure to the interdisciplinary nature of healthcare before they enter the workforce. As a research student, you will have the opportunity to deliver high impact, collaborative research that directly addresses the needs of your profession.

Our students carry out their research in the newest facilities - from wet labs to a sizeable public-facing psychology clinic, simulated orthoptics spaces, and our physiotherapy research hub at the Rugby Australia Building at Moore Park.

At GSH, we also have access to cutting-edge technology and equipment to drive research innovation. For example, our purpose-built X-20 Flow Cytometry system for cell biology research, or the "Tyromotion", the only robotic rehabilitation system of its kind in a tertiary institution in Australia. Technologies like this put us at the forefront of research in these fields.

Our facilities, infrastructure, technical expertise and support systems mean that we provide our students with the highest quality research degree experience. We work to ensure that you will be a highly skilled and sought after researcher at the end of your candidature. You will gain valuable experience working in a collaborative, interprofessional environment, preparing you for a rewarding future career in both clinical and research spaces.

We look forward to welcoming you to GSH.

RESEARCH AREAS

Primary Health Care

- Pharmacy Practice (community and hospital, and professional services)
- Clinical Psychology (clinical health psychology, child and family behaviour, and mindfulness-integrated cognitive behavioural therapy)
- Orthoptics (public health and epidemiology, community care, low vision and biomarkers in ageing retina)
- Physiotherapy (neuro-rehabilitation and chronic disease management, and intensive care physiotherapy)
- Genetic Counselling (genomics, education and impacts of living with genetic risk)
- Speech Pathology (digital health, telehealth, communication, swallowing and mealtimes, language and speech disorders)

Health sciences

- Formulation science
- Drug discovery and development
- Cancer cell biology and therapeutics
- Respiratory pharmacology
- Vision science

COLLABORATION AND PARTNERSHIPS

- Boston Children's Hospital, Harvard, USA
- Moorfields Eye Hospital, London, UK
- Singapore Eye Research Institute/ National Eye Clinic, Singapore
- University of Granada, Doctoral partnership
- University of Surrey, UK
- The Sydney Partnership for Health, Education, Research & Enterprise (SPHERE)
- Translational Cancer Research Network (TCRN)
- Speech Pathology Australia
- The Australian Digital Health Agency
- Neuroscience Research Australia (NeuRA)
- Spinal Cord Injuries Australia - NeuroMoves Exercise Programs

RESEARCH CENTRES

Australian Stuttering Research Centre (ASRC)

ASRC aims to increase understanding of the nature and causes of stuttering, develop and trial new treatments for it, and improve the health and quality of life for those who stutter and their families globally.

The Centre is supported by funding from the National Health and Medical Research Council of Australia, the Australia Research Council and generous benefactors.

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Pharmacy)	C02056	074603E
Doctor of Philosophy (Orthoptics)	C02059	086294C
Doctor of Philosophy (Physiotherapy)	C02063	091973D
Doctor of Philosophy (Psychology)	C02060	086293D
Doctor of Philosophy (Speech Pathology)	C02066	098383C
Doctor of Philosophy (Genetic Counselling)	C02065	098404C
Master of Pharmacy (Research)	C03053	076138J
Master of Pharmaceutical Science (Research)	C03054	076139G
Master of Orthoptics (Research)	C03056	086292E
Master of Physiotherapy (Research)	C03059	091974C
Master of Speech and Language Sciences (Research)	C03062	098382D
Master of Genetic Counselling (Research)	C03061	098375C



PROFESSOR BRONWYN HEMSLEY

Head of Discipline for Speech Pathology

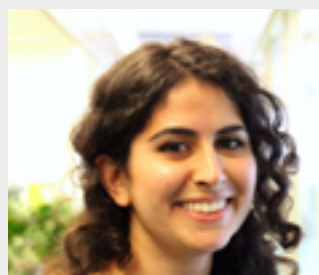
Professor Bronwyn Hemsley is the Head of Speech Pathology in the Graduate School of Health. She has a special research and clinical interest in the use of communication technologies, particularly for people with complex communication needs related to lifelong or acquired health conditions.

“People say that social media levels the playing field – we’re keen to see how people with communication disability use these platforms not only to broaden their social networks, but also to find and share information and access their communication rights” says Professor Hemsley.

Professor Hemsley’s team have also been investigating how young people with communication disability will use Australia’s personal e-health record system as they transition from child to adult health services. She says, “as yet, many Australians do not know enough about the My Health Record to be able to support family members to use it, and many health professionals are not yet accustomed to patients being in control of their own health information. Systems such as the My Health Record challenge the status quo, and also place extremely high demands on peoples’ computer literacy, health literacy, and legal literacy.”

Professor Hemsley is seeking higher degree research students interested in the field of communication disability, communication technologies, swallowing disorders, mealtime management, and oral health. “In all of these areas, there are exciting interdisciplinary research questions that need urgent attention – and immediate translation and application to make a difference in everyday life.”

You can contact Bronwyn on Twitter [@BronwynHemsley](#) or email bronwyn.hemsley@uts.edu.au



SAHAR SHARIFLOU

PhD Orthoptics candidate and recipient of an NHMRC Postgraduate Research Scholarship Grant, supervised by Professor Kathryn Rose and Dr Mojtaba Golzan

Glaucoma is a progressive eye disease that causes irreversible blindness where vision is lost gradually and often without any symptoms. There is an urgent need for early screening before the disease causes irreversible cell death within the eye.

Shariflou’s research aims to introduce a means to help prevent people from losing their sight due to glaucoma, with the use of a screening tool to help detect those at risk of developing the disease.

“Early detection is vital to reducing the number of people with glaucoma who progress to complete blindness,” says Sahar. “Current diagnosis is based on comprehensive ocular examinations but the difficulty lies in predicting the onset of glaucoma.”

Sahar’s research looks at markers that may help identify or predict the beginning of the disease. The primary markers in her research are the blood vessels at the back of the eye, specifically if there is a fluctuation in vessel diameter over time. To track any changes, a new digital tablet-based device is used to compare patients with healthy eyes, those that are suspected of having the disease and individuals with glaucoma.

The National Health and Medical Research Council (NHMRC) scholarships provide funding to support research across health and medical research. As the recipient of an NHMRC scholarship, Sahar said she feels very privileged. “The scholarship will provide me with the opportunity to continue my research and make contributions to the current knowledge available in eye health care”.

Faculty of Health

uts.edu.au/future-students/health/i-want-study/higher-degree-research

nursing | midwifery | health services management | public health | palliative care |
sport and exercise science | complementary and integrative medicine



Welcome from the Associate Dean of Research, Professor Fiona Brooks

Welcome to UTS Health, where we deliver research with impact. We embody an innovative, dynamic, collaborative research culture that is highly engaged with health industry, academia, consumers and communities. We are highly rated in NSW for Nursing, Midwifery, Human Movement and Sports Science research in the Federal Government's ERA review (rated as "5/5" - well above world standard) and Public Health & Health Services (rated as "4/5" above world standard). Our membership comprises of internationally respected leaders in the fields of healthcare and health services, with extensive records of accomplishment and engagement with health care providers (hospitals and clinics) and government bodies. We exemplify a broad scope of disciplines including: Nursing; Midwifery; Health Services Management; Public Health; Palliative Care; Sports and Exercise; and Complementary and Integrative Medicine.

UTS Health covers a wide range of research interests for students undertaking a research degree that focus on improving health outcomes in both local and global communities. Our growing cohort of higher degree research students are continuing to advance knowledge, develop researcher and student networks, and transform industry-driven research questions into solutions, guided by our motivated academics and practitioners. We foster innovation, collaboration and evaluation in partnership with industry organisations to generate world-leading, high impact research to improve the health of our community.

FACULTY RESEARCH CENTRES

- Australian Centre for Public and Population Health Research
- Australian Research Centre in Complementary and Integrative Medicine
- Centre for Health Services Management
- Centre for Midwifery, Child and Family Health
- Human Performance Research Centre
- Improving Palliative, Aged and Chronic Care through Clinical Research and Translation

MULTI-INSTITUTION RESEARCH COLLABORATIONS

- World Health Organisation (WHO) Collaborating Centre for Nursing, Midwifery and Health Development

FACULTY OF HEALTH FACILITIES

The UTS-Rugby Australia building which opened in October 2017 accommodates the Faculty of Health's sport and exercise science programs. It is also the headquarters of Rugby Australia and home to Australia's elite national rugby teams.

The new facilities include a multi-purpose sports hall equipped with cameras used for research activities and a combined skill acquisition, exercise physiology and biomechanics research laboratory. These spaces house high-technology equipment for motion analysis and physiological assessment including an optical tracking system, embedded force plates, a dual-energy x-ray absorptiometry (DXA) scanner and electromyography (EMG) technology.

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Nursing, Midwifery, Health)	C02024	032320G
Doctor of Philosophy (Public Health)	C02061	088974G
Doctor of Philosophy (Sport & Exercise)	C02057	085405J
Master of Nursing (Research)	C03048	052679M
Master of Midwifery (Research)	C03049	052680G
Master of Health Services (Research)	C03050	055629G
Master of Sport and Exercise (Research)	C03055	032336M



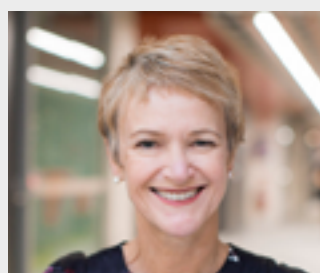
SCOTT AVERY

PhD candidate, Supervised by Professor Joanne Travaglia

Scott Avery is completing his PhD in disability in Aboriginal and Torres Strait Islander at the Faculty of Health. His research focuses on the experiences of Aboriginal and Torres Strait Islander people with disability and the implications for Australia's Indigenous and disability policy. The research is being co-produced with First Peoples Disability Network, a community-based disability organisation for Aboriginal and Torres Strait Islander people, where he is Research and Policy Director.

Closing the gap in Indigenous disadvantage and improving the quality of life for people with disability are two great dilemmas that health research is trying to solve. Scott's research seeks to understand life at the intersection of these two problems and break down systemic barriers and attitudes towards Indigenous Australians with disabilities. It aims to impact many aspects of social life for Aboriginal and Torres Strait Islander people, including their health outcomes, access to education, and employment opportunities. The research sets an agenda for providing social justice to this population that has been marginalised in Australia.

"The Faculty of Health at UTS provides the support that enables me to work at the interface of community, research and policy," says Scott. "My supervisors share a great wealth of knowledge and experience. With their guidance, I am able to develop a robust research framework to explain and respond to some of the most complex social issues that Australians face."



CAROLINE HOMER

Distinguished Professor, AO RM MScMed (ClinEpi), PhD

Caroline Homer is a Professor of Midwifery and Director of the Centre for Midwifery, Child and Family Health, housed at the Faculty of Health. She has led research into the development and implementation of innovative models of midwifery care and the development of midwifery practice and education. Her other research includes the translation of research into clinical practice particularly in maternity care and the development of educational strategies to prepare midwives for practice.

Professor Homer is involved in teaching midwifery students through the Bachelor of Midwifery and the Graduate Diploma of Midwifery. She supervises PhD, Masters and Honours students studying aspects of improving maternity services including midwifery continuity of care, workforce development, models of care, place of birth, cost of maternity care, female genital mutilation and vasa previa. Caroline has more than 210 publications in peer reviewed journals. She is the immediate past President of the Australian College of Midwives.

"Our pursuit of excellence and leadership in research, education, and practice development is demonstrated in our broad range of research projects, our impact on practice and policy development and our collaboration with healthcare and professional organisations. At the Faculty of Health, we are committed to generating high quality research to improve outcomes for women, children, young people and families, locally and across the globe."

Institute for Public Policy and Governance

uts.edu.au/research-and-teaching/our-research/institute-public-policy-and-governance/our-research/research

Public and social policy | local government | regional development | urban studies and planning | housing | regulation | public administration



Welcome from the HDR Coordinator, Professor Alan Morris

The UTS Institute for Public Policy and Governance (IPPG) is dedicated to enhancing our knowledge of local government and its effectiveness, and addressing societal challenges and public policy issues. The Institute has excellent links with national and international governmental and non-government bodies, first class facilities and we strongly encourage a collegiate ethos.

A range of Doctorates and modes of study are available including a Doctor of Philosophy (PhD) and UTS Industry Doctorate Program and International Collaborative PhD Degrees with our partners around the world. A Doctorate at IPPG enables candidates to collaborate with IPPG's top-rated academic researchers and with UTS's departments across a variety of disciplines. As an IPPG PhD candidate you will be co-located with a vibrant team of academics and consultants.

For suitable candidates there may be opportunities to gain valuable teaching and administration experience; to present your research at internal seminars, national and international conferences; to collaborate with academics on research projects and publications; to work with consultants on applied research, policy and evaluation projects; and to develop your networks and maximise the impact of your doctoral research.

RESEARCH AREAS

- Public and social policy
- Local government
- Urban studies and planning
- Regional development
- Regulation
- Housing
- Public administration

RESEARCH DEGREES

For further information on our PhD program, please contact Professor Alan Morris.

Email: alan.morris@uts.edu.au



UDAY KULKARNI

PhD Candidate, supervised by Dr. Bligh Grant – Senior Lecturer

“In Australia, over the last couple of decades, almost all the local governments have adopted Information and Communications Technologies (ICT) to varying degrees but essentially for delivering vital activities of their operations in more efficient and effective ways.”

PhD candidate Uday Kulkarni’s research investigates the adoption of ICT in Australian local government, and assesses its capacity to deliver a range of services to local government communities and an increased level of sustainability for councils and their communities.

Uday’s study identifies and investigates the current status of use of ICT in various local governments across Australia.

“The key research questions addressed in my research are: (a) What are the factors influencing ICT adoption in local governments? (b) What are the challenges in current models of ICT service delivery? (c) Which ICT service delivery models are appropriate for future? and (d) How can local government deliver sustainable services to the community using ICT?”

Uday says “I chose to do my PhD at the UTS for three main reasons. Firstly, the Institute of Public Policy and Governance is an active research institute with access to a wide range of research expertise. Secondly, the expert supervision I receive in trans-disciplinary research in the local government, public policy and governance. Thirdly, the great flexibility I get when balancing work, study, and family commitments.”



DR BLIGH GRANT

BA, BA(Hons), PhD

Dr Bligh Grant is an Associate Professor at the UTS Institute for Public Policy and Governance.

Much of his work brings expertise in politics, philosophy and political economy to public policy. He enjoys working with scholars, practitioners and HDR candidates to produce academic research outputs and broader outcomes and supervises Masters and PhD students in a broad range of topics.

A continuing focus of Bligh’s work is local government. He is co-editor of the 2018 book *Metropolitan Governance in Asia and the Pacific Rim: Borders, Challenges, Futures*, with Cathy Yang Liu and Lin Ye, and author of three recent books, *Local Government in Australia: History, Theory and Public Policy* (2017), with Joseph Drew, and *Funding the Future* (2013) and *Councils in Cooperation* (2012) with Brian Dollery and Michael Kortt.

Recent scholarly articles have appeared in the *Australian Journal of Political Science*, *Australian Journal of Public Administration* and *Australian Planner*. His first edited book, *Pauline Hanson, One Nation and Australian Politics*, was published in 1997.

Bligh has held positions as Lecturer in Business Ethics and Lecturer in Local Government at University of New England (UNE), and Associate Lecturer in Political Economy at USQ. He has taught Philosophy, Politics, Sociology, Asian Studies, Political Economy and Business Management at UNE. He contributes regularly to media on Australian politics, particularly on local government matters.

Faculty of Law

uts.edu.au/research-and-teaching/our-research/law-research

health justice | law and history | criminology and criminal law | intellectual property |
media and communications | international law and human rights



Welcome from the Higher Degree Research Director, Associate Professor Isabella Alexander

UTS Law is committed to world leading research and real world impact. The UTS Faculty of Law is one of Australia's leading law schools, ranking 6th in Australia and 43rd in the world by the QS World University Rankings by Subject 2017. Excellence and leadership in legal scholarship and research is integral to the Faculty's mission. The Faculty's vibrant research culture, commitment to researcher development, and diverse research activities saw our research assessed by the Commonwealth Government as being 'above world standard' in the last Excellence in Research for Australia (ERA) initiative in 2015.

UTS Law research – from socio-legal to legal history, and doctrinal to legal theory – is defined by excellence and leadership in legal scholarship, making a critical contribution to understanding and teaching the discipline, shaping policy and lawmaking, and positively informing public debate. Key Faculty Centres and areas of research excellence include our research concentrations in Law | Health | Justice; and Law and History. UTS Law also has significant research leadership in the areas of Criminal Justice; Intellectual Property; Media and Communications; International Law and Human Rights; Migration and Human Trafficking; Feminist Legal Research; Indigenous Peoples and the Law; and China Law.

UTS Law research fosters a dynamic, collaborative, and collegial research culture that engages across disciplines and international, national and local communities. It also has researchers and research collaborations with leading academics, governmental and industry partners in Australia, and across Africa, Europe, the Americas, Asia and the Pacific. Our research is funded by external, national and international competitive granting schemes like the Australian Research Council, European Research Council, New Zealand Law Foundation, and prestigious, national and international private granting foundations.

Development programs and internationally competitive funding schemes, specifically designed for Higher Degree Research students, are available.

UTS Law's prestigious and internationally competitive Quentin Bryce Law Doctoral Scholarships provide a stipend of \$40,000 p.a. over four years full-time, a support fund, and the possibility of an additional teaching fellowship.

The Sir Gerard Brennan Doctoral Scholarship for Indigenous Australian students provides a stipend and research support for three years (with the possibility of extension) to a maximum of four years to undertake full-time PhD studies at UTS Law.

Full-time Higher Degree Research students have their own individual, dedicated workstation in the UTS Faculty of Law Building, in a newly renovated research hub.

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Law)	C02028	008681E
Master of Laws (Research)	C03024	006407F



GENEVIEVE WILKINSON

PhD candidate, Quentin Bryce Scholarship recipient, supervised by Professor Natalie Stoianoff

Quentin Bryce Scholar Genevieve Wilkinson's research primarily concerns the intersection between human rights and intellectual property in laws regulating trade marks in Australia. Originally graduating from the University of Sydney with First Class Honours in a combined Arts/Law degree, Genevieve has gone on to complete a European Master of Human Rights and Democratisation from the European Inter-University Centre, and more recently, a Master of Intellectual Property Law from UTS.

As a recipient of the prestigious Quentin Bryce Law Doctoral Scholarship, Genevieve's research focuses on intellectual property law – an area of law that has become a prominent contemporary justice issue in recent decades due to the international expansion of patent law. Intellectual property law and patent law inhibit access to vital medicines throughout the world, raising ethical questions about their implications and impingement on the human right to health. Genevieve explores a different field of intellectual property law; trade mark law, and considers the potential impact on human rights of this field of law. Investigating case studies of tobacco plain packaging and anti-counterfeiting in Australia, she will use this research to ascertain whether it is possible for conflicts between intellectual property and human rights to be resolved within domestic legislation in a manner that is consistent with international trade law and international human rights law. She hopes her research will lead to a broader understanding of the interaction between the human right to health and intellectual property law beyond the 'traditional access to medicines' debate.



ASSOCIATE PROFESSOR THALIA ANTHONY

LLB (Hons 1), BA (Hons), MCrim, PhD

Associate Professor Thalia Anthony is an expert in criminal justice and Indigenous people and the law. She has a BA and LLB (Hons), a Masters of Criminology and a PhD in law from the University of Sydney, where she worked as a lecturer until she joined UTS:Law in February 2010. Thalia's dynamic research has a strong social justice focus; primarily addressing legal issues affecting Indigenous people – including over-imprisonment, the criminal sentencing of Indigenous people and the criminalisation of Indigenous drivers and other minor offenders.

Highly commended in the 2015 Vice-Chancellor's Awards for Research Excellence for Teaching and Research Integration, Thalia's work over the past decade has fundamentally influenced developments in research and methodologies in critical criminology. With research grounded in the understanding of the colonial legacy in legal institutions, she is set to release a book with Professor Harry Blagg (UWA) titled 'Decolonising Criminology' (Palgrave Macmillan, 2016). Thalia is also a Chief Investigator on a number of Australian Research Council (ARC) grants; including one that seeks to examine how local courts represent Indigenous women's experiences – such as family violence and family responsibilities and the quality of information before sentencing courts – with the aim of ensuring appropriate sentencing outcomes for Indigenous women offenders in the future. Her other project, 'Improving sentencing processes through the provision of Aboriginal pre-sentencing reports', will consider whether Indigenous community involvement in the preparation of pre-sentencing reports can improve the sentencing process. Community involvement in the sentencing process will ideally work on the basis of providing courts with a fuller set of information regarding the material facts relevant to the offender and the offence, and a broader set of community-based sentencing options.

Faculty of Science

uts.edu.au/about/faculty-science/what-we-do/research-overview

chemistry and forensic science | the environment | mathematical sciences |
medical and molecular biosciences | physics and advanced materials



Welcome from the Associate Dean of Research, Professor Alaina Ammit

As a research student with UTS Science, you'll be an integral part of an exciting team contributing to research that makes a real-world difference.

You'll be given the opportunity to work with passionate academics who are leaders in their field of expertise. Your supervisors will mentor and guide you, providing you with capabilities in scientific investigation, an essential asset for professionals working in academia and industry.

Research in UTS Science is organised into university research strengths, centres and research groups based within its two schools: the School of Life Sciences and School of Mathematical and Physical Sciences and two institutes: i3 Institute and C3 Institute.

These research groups conduct world-leading, focussed research in areas that include: climate change; infectious diseases; biomedical materials and devices; forensic science; materials science; medical and health sciences; mathematics; analytics, statistics; physics; chemistry, biology and environmental and marine sciences.

Many research projects are conducted in close collaboration with industry and government research organisations, such as Sydney Water, NSW Department of Primary Industries, and the Australian Federal Police. As a result, over 93 per cent of UTS postgraduate research students gain full-time employment after graduation*.

At UTS Science, research is part of our culture. We account for about one third of the UTS's overall research outputs and grant income. In the latest Excellence in Research Australia 2015 assessment, we received a ranking of "well above world standard" - the highest available ranking - for a number of its research groups.

Our research environment will give you access to innovative technology and world-class facilities, including a new \$150M purpose built science building equipped with clean rooms, imaging suites, custom designed laboratories and office spaces.

We also encourage our research students to get involved in science communication activities such as the 3 Minute Thesis (3MT) competition, Famelab and National Science Week; as well as teaching activities and various professional experience opportunities. Completing a research degree with us is a holistic experience. Our aim is to equip you with the skills you need to succeed in both research and future career path that you choose to follow.

RESEARCH STRENGTHS

i3 Institute (i3): addresses key challenges in the understanding and control of infectious disease in humans and animals.

Climate Change Cluster (C3): uses technology to measure and predict the structure, function and health of plant-based ecosystems.

Centre for Forensic Science: incorporates an interdisciplinary research approach to address crime and security issues.

Centre for Health Technologies: conducts research into health and disease processes; biomedical engineering; and detection and diagnosis of a range of disease states.

Centre for Clean Energy Technology: focuses on the development of efficient devices for energy harvesting, storage, and conversion.

Institute for Biomedical Devices (IBMD): aims to transform advances in photonics and materials into revolutionary biomedical technologies.

Centre for Neuroscience and Regenerative Medicine: aims to initiate, implement and coordinate projects across UTS and beyond that aim to understand central nervous system function (CNS) and improve quality of life for people with CNS disorders.

JOINT RESEARCH CENTRES

- ARC Centre of Excellence for Mathematical and Statistical Frontiers (ACEMS)
- Automotive Australia 2020 Cooperative Research Centre
- CSIRO Marine Coastal Carbon Cluster
- ARC Research Hub for Integrated Device for End-user Analysis at Low-levels (IDEAL)
- Rail Manufacturing Cooperative Research Centre

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Science)	C02031	008663G
Doctor of Philosophy (Mathematics)	C02030	009463G
Master of Science (Research)	C03029	030869J
Master of Science in Mathematical Sciences (Research)	C03026	032335A



PROFESSOR LIZ HARRY

Bsc (Hons), PhD, Director of the itthree Institute at UTS

Professor Liz Harry is a Biology Professor whose research on bacterial cell division has made a significant impact on the understanding of how bacterial cells multiply. Her research has often changed the direction of thinking in the field, and has afforded excellent opportunities in antibacterial discovery.

Professor Harry was awarded the 2002 Australian Eureka Prize for Scientific Research, and the 2008 ASM Frank Fenner Award, awarded by the Australian Society for Microbiology in recognition of her distinguished contributions to Australian research in microbiology. Currently, Professor Harry's research is focusing on bacteria that cause infectious disease, such as *Staphylococcus aureus* and *Acinetobacter baumannii*, and antibacterial discovery.

"I hope to achieve a great translation of our discoveries into something that's useful like healthcare, for example, with new antibiotics, and also with probiotics, which is a good way of treating an infection or preventing a bacterial disease happening without the issue of antibiotic resistance. I also want to better connect with industry, so that we can put our research into good use."

Professor Harry is also passionate about helping young scientists develop their careers, in what is often a very challenging economic and social environment for research.



ASSOCIATE PROFESSOR IGOR AHARONOVICH

MSc, PhD, ARC DECRA Fellow, School of Mathematical and Physical Sciences

Associate Professor Igor Aharonovich researches in the areas of nanotechnology, materials science and nanophotonics. He is interested in technological innovations that can transform our everyday life. As a member of the Materials and Technology for Energy Efficiency research strength centre, he hopes to contribute towards applications in energy, life sciences, nanophotonics and novel quantum technologies.

In 2015, Associate Professor Aharonovich was the first Australian researcher to be awarded the prestigious IEEE Photonics Society Young Investigator Award, which recognises game-changing research in the fields of photonics, optoelectronics and materials science conducted by early career researchers under the age of 35. Also in 2015, Associate Professor Aharonovich earned recognition as one of NSW's top up-and-coming scientists by the annual NSW Young Tall Poppy Awards, as well as the Early Career Research Excellence medal at the UTS Vice-Chancellor's Awards for Research Excellence.

Associate Professor Aharonovich is available to supervise motivated PhD/Honours students in the fields of nanotechnology, materials science and nanophotonics, including investigating novel bio-sensors based on fluorescent nanodiamonds, and simulating and designing new architectures for nanophotonics.

Institute for Sustainable Futures

uts.edu.au/research-and-teaching/our-research/institute-sustainable-futures

cities and buildings | climate change adaptation | energy futures | food futures | international development | learning and social change | natural resources and ecosystems | resource futures | transport | urban water futures



Welcome from the Program Director, Professor Chris Riedy

Do you want to change the world? Are you searching for new ideas on how to create that change?

A research degree at the Institute for Sustainable Futures (ISF) can help you to build the skills and experience to deliver a better future in your chosen field. You will work with committed colleagues from diverse disciplines to transform your ideas into positive change in the world.



ISF is tackling some of the most complex sustainability challenges facing our world, from climate change to resource scarcity to international development. We work at the leading edge of theoretical and conceptual innovation, applying new ideas to practical experiments in transition towards sustainability. We take a holistic view that integrates technological, economic, behavioural, social and cultural responses to the challenges of the 21st Century.

The research environment you will be part of at ISF is unique. First, we are trans-disciplinary. We integrate knowledge from diverse academic disciplines to create new perspectives on sustainability challenges. Engineers and ecologists work alongside social scientists, designers and planners to address environmental and social problems.

Second, we are hands on. We are not ivory tower academics. Our staff and students work closely with partners in government, business and civil society to realise change.

Third, we offer a supportive community of sustainability scholars. Doing a research degree is a tough, individual challenge. And changing the world can be pretty hard work too! It's easy to burn out. At ISF, you'll work with others who share your goals. Through peer support groups, student meetings, learning workshops and annual retreats, you'll stay connected with our vibrant community of sustainability scholars.

We are passionate about making the world a better place. Come and join us.

RESEARCH AREAS

- Cities and Buildings
- Climate Change and Adaptation
- Energy Futures
- Food Systems
- International Development
- Landscapes and Ecosystems
- Learning and Social Change
- Resource Futures
- Transport
- Water Futures

EXAMPLE RESEARCH PROJECTS

NSW Office of Environment and Heritage – NSW Adaptation Research Hub – Adaptive Communities Node
uts.edu.au/research-and-teaching/our-research/institute-sustainable-futures/our-research/climate-change/nsw

Australian Renewable Energy Agency – Networks Renewed
uts.edu.au/research-and-teaching/our-research/institute-sustainable-futures/our-research/energy-and-climate-1

NSW Department of Family and Community Services – Cohousing for Older People
uts.edu.au/research-and-teaching/our-research/institute-sustainable-futures/our-research/social-change-4

Australian Development Research Awards Scheme – Enterprise in Water, Sanitation and Hygiene
enterpriseinwash.info



Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy (Sustainable Futures)	C02037	032334B
Master of Sustainable Futures (Research)	C03032	028886D



RACHAEL WAKEFIELD-RANN

PhD candidate, supervised by Dr. Dena Fam

Bridging the divides between microbiology, human behaviour, architecture and design is the wicked problem faced by ISF PhD researcher Rachael Wakefield-Rann.

Rachael's research analyses the social practices that structure and curate domestic indoor environments, and examines how and why routinized activities bring together bacteria, chemicals, furnishings and other objects to create "indoor ecosystems."

Research from multiple scientific disciplines demonstrates that common elements of indoor home environments can have detrimental impacts on the health of occupants. However, much of the research that examines indoor ecosystems is carried out within different disciplines that do not cross over – a situation Rachael believes is preventing researchers from grappling with the complexity of how indoor ecosystems are constructed and how they are causing harm.

"What struck me when researching definitions of "indoor ecosystems" is that different disciplines have very different definitions – and these definitions don't always interact with each other.

When a microbiologist talks about an indoor ecosystem, they're often only talking about the bacteria and fungi that exist within an indoor environment. When a designer discusses indoor ecosystems they're talking about aesthetics, the physical design of spaces, and their impacts on lifestyle.

However, it's not as simple as simply examining the biological perspective or the design perspective. Through examining how routine brings microbes, chemicals and physical objects into the home, I can utilise a transdisciplinary approach to show how each component of the ecosystem interacts with the others, bridging knowledge gaps between microbiology, chemistry, toxicology and design.

Because my research crosses disciplines, the Institute for Sustainable Futures is ideal for the research I want to do. I'm able to discuss my work with engineers, social scientists, biologists and architects, and draw on all of this knowledge in creating change through my research."



DR SCOTT KELLY

Senior Lecturer

For Dr. Scott Kelly, sustainability is about painting the big picture; across the planet, and also across time.

Dr. Kelly has a PhD from the University of Cambridge and a background in economics, energy and sustainable development. His research experience spans the private and public sectors, dealing with issues of risk, sustainability, and climate change.

"I think that the best way to solve bigger picture problems is to get smart people from multiple disciplines to think and work together, to develop viable solutions.

Where those big picture, complex problems are most typically solved is at universities, where people have time to think, debate, and speak openly about what needs to be done."

It's not just a linear process, either.

It's about thinking holistically, thinking on a global scale across time. It's an iterative process, moving between theory, practice and implementation until an optimal solution is found."

Scott has a particular interest in the area of New Economics, for sustainable development.

"Economics is an area that is ripe for developing new theoretical models, and for thinking deeply about the issues for what we want our economy to look like and deliver. Within sustainability, there's been a lot of focus in preserving the environment and society, but I think the role of the economy within a sustainability context is often forgotten.

I think there's a lot of interesting sustainability research that can be done in the economics space."

Another area of interest for Scott is complex systems models. "Because my background is in analysis, I think there are some solutions that come from techniques such as network analysis, or from constructing models of systems dynamics, that can be applied to problems within sustainability.

I'm always keen to hear from students who want to apply an innovative approach to understand a complex problem."

Transdisciplinary Innovation

uts.edu.au/future-students/transdisciplinary-innovation/
[uts-animal-logic-academy/research-degrees](https://uts.edu.au/animal-logic-academy/research-degrees)



Main welcome from Deputy Dean, Associate Professor Alison Beavis

The Faculty of Transdisciplinary Innovation (FTDi) was launched in 2016 with a vision to achieve impact beyond traditional disciplines, and to address complex problems for a future world. Transdisciplinary practices are characterised by the transgression of disciplinary boundaries, creating new synergies and insights into the grand challenges that face society. The intense collaboration that underpins research in the Faculty leads to new emergent practices, creating an environment for research to flourish.

The academic supervisors in FTDi are drawn from a diverse range of fields, providing the depth of disciplinary expertise required for research excellence and impact in a transdisciplinary space. We are also proud of the strong industry partnerships embedded across all faculty activities from learning and teaching through to research.

An example of the depth of industry engagement within FTDi is the UTS Animal Logic Academy (ALA), a unique collaboration between UTS and Animal Logic - the highly acclaimed animation and visualisation film studio. The ALA research group explores the future of computer generated imagery, animation, interaction and visualisation, working collaboratively to address creative and technical challenges.

Working at the intersection of disciplines creates a rich space for both staff and future research students. We welcome students from all disciplinary backgrounds who share our passion for creativity and innovation.

RESEARCH AREAS

- Transdisciplinary education innovation
- Design-led innovation
- Entrepreneurship and innovation
- Sustainable management practices

ANIMAL LOGIC ACADEMY RESEARCH

- User experience and engagement for augmented and virtual reality
- Animation and interaction
- New aesthetic and technical approaches to data visualisation

RESEARCH DEGREES

Please contact the faculty for an application form. Email: tdi@uts.edu.au

Research degrees

Course	Course code	CRICOS code
Doctor of Philosophy	C02067	098417J
Master of Transdisciplinary Innovation (Research)	C03063	098418G



DR MARTIN BLIEMEL

PhD

Dr Martin Bliemel is a Senior Lecturer and Director of the Diploma in Innovation in the Faculty of Transdisciplinary Innovation. Prior to this, Martin was Director of the Centre for Innovation and Entrepreneurship (CIE) at UNSW, and completely revised and relaunched UNSW's Diploma in Innovation Management. He is a member of the advisory committee for the Australian Centre for Entrepreneurship Research Exchange (ACERE) and for the Amway Global Entrepreneurship Report. Martin's research interests include entrepreneurial networks and ecosystems, acceleration, education, and research commercialization. His research has been published in several prestigious journals including Nature Nanotechnology, Entrepreneurship Theory and Practice, Education+Training, International Journal of Entrepreneurial Behavior & Research, and the Entrepreneurship Research Journal. Martin is a recipient of the nationally competitive Office of Learning and Teaching Citation for his excellence and leadership in teaching. The award is supported by multiple publications and presentations about his curriculum design, and by the positive feedback from students and industry.

"Joining FTDi is exciting, because of how well the mix of multiple disciplines and approaches is applied to research, teaching and industry engagement. It's exciting to see how well these three areas are leveraged against each other too. Being part of such an engaged transdisciplinary environment also helps me further embed myself in phenomena I am researching, such as studying the 'entrepreneurial university' or studying how nano- and bio-technology intersect to create novel industries."



PROF KEES DORST

PhD

Kees Dorst is Professor of Design Innovation at the University of Technology Sydney's Faculty of Transdisciplinary Innovation. He is the founding director of the UTS Design Innovation Research Centre and the Designing Out Crime Research Centre. He holds the position of Design United professor in The Netherlands, leading a project on the development of Research through Design methodologies. He lectures at Universities and design schools throughout the world. He has published many articles and several books, connecting design theory with practice – including Understanding Design (2006) and Design Expertise (2009), with Bryan Lawson. His most recent books are *Frame Innovation - create new thinking by design* (2015) *Designing for the Common Good* (2016) and *Notes on Design - How Creative Practice Works* (2017). He is one of the most quoted authors in design research.

Kees has a background in Design and Philosophy. He is passionate about deepening our understanding of expert designer's practices, so that they can be adopted by practitioners from many different fields. Over the years, this ongoing interest has led to new research into the nature and nurture of the transdisciplinary practices we need in our complex and networked world.

UTS-Industry Doctorate Program

The UTS-Industry Doctorate Program (IDP) is designed for postgraduate domestic and international research students, who are interested in pursuing a research career outside academia. It comprises a number of features:

- UTS and the IDP student enter into a 3 year agreement with an industry partner, who has a complex problem they would like investigated. Under the guidance of a UTS academic supervisor, this full-time research project forms the basis of the student's PhD.
- A specialised Industry Researcher Development Program (IRDP) has been designed to not only provide the knowledge and skills to effectively create, plan and deliver on industry projects, but also aims to cultivate strong researchers who are collaborative, enterprising, strategic and entrepreneurial.
- The IDP offers students an ideal opportunity to grow professional industry networks while having access to world class researchers, research facilities and infrastructure, in the heart of Sydney's innovation hub.
- IDP students either receive an attractive scholarship to assist them with their full-time studies, or if they're employed by the industry partner, continue to receive their salary.



JAMES BROWNLOW

Employer-sponsored IDP candidate, Colonial First State

"CFS is an employer of choice and, as such, they're strong advocates of employee development. IDP research is different to the research I would be able to conduct on my own, for instance I can access data and customers that other researchers can't. It has allowed me to really focus on solutions for industry and I know that the research I'm conducting will be used to make a difference in the Australian community. It also allows me to join my professional career with my education for personal development."

FIND OUT MORE

Find out more about the UTS IDP program:

www.uts.edu.au/research-and-teaching/research-degrees/explore-uts-research-degrees/benefits-research-degree

Or contact:

grs@uts.edu.au

International Collaborative Program

Interested in a graduate pathway with an international partner? At UTS we have established research-led partnerships with universities across Asia, American and Europe to facilitate students undertaking a PhD across two universities.

If interested please see further information available at:
uts.edu.au/research-and-teaching/research-degrees/explore-uts-research-degrees/benefits-research-degree/cdp



DANIEL HERRON

PhD candidate, University of Dundee, UTS: Faculty of Engineering and Information Technology, supervised by Professor Elise van den Hoven

"I was given a fantastic opportunity to study a joint degree at UTS because of the existing research collaboration between my two supervisors. There are many benefits of the collaborative degree program. It offers me exposure to a mix of different research cultures at UTS and at the University of Dundee. In addition, the international aspect of the degree provides me with an incredible opportunity to travel and connect with research communities in both countries that I would not normally be part of".

FIND OUT MORE

Find out more about collaborative program:

www.uts.edu.au/research-and-teaching/research-degrees/explore-uts-research-degrees/benefits-research-degree

Or contact:

International.Research@uts.edu.au

Visiting Research Students Program

Visit UTS and work with our researchers for a short period of time to enhance your PhD Study? You can do this with UTS. You can undertake part of your study ranging from one to four sessions at UTS.

For more information see how to apply:
uts.edu.au/research-and-teaching/research-degrees/applying-uts/how-apply

Visiting Research Student Program

Course	Course code	CRICOS code
Visiting Research Students Program	C50008	066310G



How to apply

STEP 1

FIND A RESEARCH AREA

Before you apply, you should investigate the broad range of research activities and projects that our researchers are currently engaged in at UTS.

For more information about the UTS Research Focus, visit:

uts.edu.au/research-and-teaching/research-degrees

STEP 2

CHECK YOUR ELIGIBILITY

Check that you meet the eligibility criteria for admission to the research degree that interests you at UTS:

gsu.uts.edu.au/policies/admissionspolicy.html

STEP 3

PRE-ASSESSMENT PROCESS

Some faculties have a pre-assessment stage to the application process. If your proposed area of research falls into one of the following faculties, you are required to complete the pre-assessment form. If you are applying to any of the other faculties, please progress to step 4.

UTS Business School:

uts.edu.au/future-students/business/business-courses/postgraduate-research-phd/expression-interest-phd

Faculty of Law:

uts.edu.au/future-students/law/essential-information/application-information

Graduate School of Health:

forms.uts.edu.au/web/index.cfm/315

Institute for Sustainable Futures:

uts.edu.au/research-and-teaching/our-research/institute-sustainable-futures/our-postgraduate-program/how-apply

STEP 4

FIND A POTENTIAL SUPERVISOR

Use the Find a Supervisor database on the UTS website or contact your faculty or institute.

Find a supervisor:

web-tools.uts.edu.au/supervisors

OR

Contact your faculty or institute:

uts.edu.au/about/faculties/overview

You will need to provide the following information when you contact your faculty or your potential supervisor:

- a brief research proposal which includes your research topic and background of the project. This must reflect your ability to do research
- a current CV/resume (**Download CV template**)
- academic transcripts

Some faculties require additional documentation at this stage. It is best to consult with your faculty directly.

STEP 5

DEVELOP YOUR RESEARCH PROPOSAL

Once you find a potential supervisor you may need to further develop a plan for your proposed research. For details on how to develop your research proposal:

uts.edu.au/research-and-teaching/research-degrees/applying-uts/prepare-your-documents/writing-research

STEP 6

ATTACH NECESSARY SUPPORTING DOCUMENTATION

Please attach the following documents when you are ready to apply for the research degree program:

- current CV/resume (**Download CV template**)
- certified copy of enrolment letter for your current PhD or Master by research degree if applicable
- certified copy of your academic transcripts and statement of completion for all post-secondary studies
- certified copy of English language proficiency documents if available
- Permission from home university if you are applying for Visiting Research Student program, dual/joint and cotutelle degrees

More information on preparing and certifying your documents:

uts.edu.au/research-and-teaching/research-degrees/applying-uts/prepare-your-documents

STEP 7**SUBMITTING YOUR APPLICATION**

Please refer to the following website on how to submit your application with supporting documentation:

uts.edu.au/research-and-teaching/research-degrees/applying-uts/lodge-your-application

Note: The Faculty of Health requires a Health Supervision Agreement Form to be uploaded with your online application.

View Application deadlines:

uts.edu.au/research-and-teaching/research-degrees/applying-uts/application-deadlines

International students closing dates:

- 15 January 2019 (2019 Spring session, July-August commencement)
- 30 June 2019 (2020 Autumn session, January- Early April commencement)
- 15 January 2020 (2020 Spring session, July-August commencement)

Domestic students closing dates:

- 30 September 2018 (2019 Autumn session, January- Early April commencement)
- 30 April 2019 (2019 Spring session, July-August commencement)
- 30 September 2019 (2020 Autumn session, January- Early April commencement)

To submit your application:

uts.edu.au/research-and-teaching/research-degrees/applying-uts/how-apply

STEP 8 WHERE TO SEND CERTIFIED DOCUMENTATION

You must send your certified documents to:

The Graduate Research School
University of Technology Sydney
PO Box 123
Broadway NSW 2007

Or

The Graduate Research School
University of Technology Sydney
Level 7, Building 1
15 Broadway
Ultimo NSW 2007

STEP 9**APPLICATION OUTCOME**

You will receive an email acknowledging receipt of your application. You can track your application's progress through My Student Admin (MSA) and you will be advised of the outcome of your application by email.

STEP 10**ACCEPTING YOUR OFFER**

If you meet all the UTS requirements, you will receive a formal letter of offer to study at UTS. The Graduate Research School will notify you on how to accept your UTS offer via email.

HOW TO LIST PUBLICATIONS

If you are providing details of scholarly peer-reviewed publications which you have authored, list them using a standard system such as the Harvard Referencing System and ensure you include the information listed below:

lib.uts.edu.au/help/referencing/harvard-uts-referencing-guide

1. Author/s – list all authors in the order that appears on the publication with your own name in bold
2. Year of publication
3. Title of article or book chapter
4. Journal/book name or conference proceedings
5. Volume/issue of journal article or volume and edition of book

6. Page number/s
7. Publisher and place of publication
8. Publication proof – a URL of the online version of the article OR a copy of the front page of the publication OR proof that the publication has been accepted for publication by providing acceptance letter from editor. For conference papers, a copy of the conference program which shows your name as presenter must be provided.

If your publications are not in English, please provide a certified English translation of the title block using the Harvard Referencing System.

lib.uts.edu.au/help/referencing/harvard-uts-referencing-guide

HOW TO LIST PRIZES/AWARDS

If you are providing details of prizes/awards that you have been awarded, include:

- Name of prize/award
- Issuing body – who issued the prize or award
- Purpose/description – the reason for the prize or award
- Selection criteria used to judge the prize or award

If your prize is not in English please provide a certified English translation of the award.

Minimum academic requirements

For admission to most Higher Degree by Research programs you are required to submit a research proposal and hold a relevant Australian equivalent master's or bachelor's degree (first or second class Honours with division 1).

Current academic requirements for HDR students

gsu.uts.edu.au/policies/admissionspolicy.html
and
handbook.uts.edu.au

ENGLISH LANGUAGE REQUIREMENTS

In order to meet the UTS English language requirements for entry into a UTS Higher Degree by Research, you must provide evidence of one of the following (this also applies to students who were born outside Australia and have recently acquired Australian Citizenship or Australian Permanent Residency):

- If you have successfully completed a UTS-recognised public or private post-secondary course that was taught in English and is equivalent to at least one year of full-time study. You must provide official documentation from your institution certifying that the medium of instruction was English.
- If your previous education was not in English, you must show evidence of successful completion of one of the English language programs or tests listed in the table below.

ENGLISH LANGUAGE TESTS AND PROGRAM DETAILS

Academic English Program Level 5 (AE5) and Level 6 (AE6)

The Academic English Level 5 (AE5) and Level 6 (AE6) Program are offered by INSEARCH as a pathway to UTS. The INSEARCH CRICOS provider number is 00859D.

insearch.edu.au/courses-programs/english-language-courses

English language requirements

Postgraduate research	IELTS (academic strand)	TOEFL (internet-based)	PTE (Academic)	CAE	Insearch
All Communication courses	7.0 overall and 7.0 writing	94-101 overall and 23 writing	65-72	185-190	AE6
All Education courses					
All International Studies courses					
All Business courses					
All Health courses					
All Law courses					
All Graduate School of Health courses					
All Science courses	6.5 overall and 6.0 writing	79-93 overall and 21 writing	58-64	176-184	AE5
All Design, Architecture and Building courses					
All Engineering and IT courses					

For comprehensive English language requirements please refer to:
uts.edu.au/future-students/international/essential-information/entry-requirements/english-language-requirements

HEALTH COVER

If you are an international student, you are required to have Overseas Student Health Cover (OSHC) before a student visa will be granted by the Australian Government. It is a visa condition for international students to have OSHC cover for the full duration of your stay in Australia. OSHC covers students for emergency medical attention through the public health system. It does not cover all medical expenses such as physiotherapy, optical or dental care, pregnancy, pre-existing conditions or the cost of admission to a private hospital or non-emergency ambulance transport. Extra health insurance is available to cover these additional expenses.

If you choose to use UTS provider Medibank Private, you can visit **Medibank** (opens an external site) to arrange your OSHC for visa length coverage. If you do not want UTS to arrange cover on your behalf, you must arrange OSHC for yourself and the costs of cover may differ between insurers and the plan you choose. You must have OSHC arranged at the time of accepting your offer:

uts.edu.au/research-and-teaching/research-degrees/applying-uts/accepting-your-offer

TUITION FEES

Domestic students (Australian citizens, Australian permanent residents or New Zealand citizens) who are offered entry to a graduate research degree may be eligible to have the cost of their tuition fees covered by the Australian Government's Research Training Program (RTP) Fee Offset Scholarship. If you are granted an RTP Fee Offset Scholarship you are not required to pay tuition fees for up to the maximum period of time allowable to complete your research course (4 years full time equivalent for a doctorate degree and 2 years full time equivalent for a masters by research degree). More information about RTP is available from the Department of Education and Training website

education.gov.au/research-training-program

International students must pay tuition fees prior to the commencement of each session. Textbooks and other course materials are additional expenses. The fees are subject to annual increase and may vary between courses. For detailed information about tuition fees for UTS higher degree by research courses and the UTS Protocol on Fees and Refunds for International Students studying in Australia go to:

uts.edu.au/current-students/managing-your-course/fees-and-payment/international-student-tuition-fees

STUDENT SERVICES AND AMENITIES FEES

Australian universities charge a Student Services and Amenities Fee (SSAF) to support the maintenance of a range of student services at universities. At UTS, the SSAF funds provide support to Students' Association sponsored activities such as the second-hand bookstore, the UTS Union food, beverage and retail outlets and student clubs, UTS services supporting skills and language development and the UTS Student Legal Centre.

The SSAF is applicable for international and domestic students. You will be required to pay the SSAF in each session in which you enrol and the fee will be due after the census date of each session. The SSAF is non-refundable after census date. To give you an estimate of the cost, in 2019 the SSAF was A\$147 to A\$151.50 per session for full-time students (those with a study load of 18 credit points and above per session). The SSAF will be subject to an annual government set indexation increase.

For further information go to:
uts.edu.au/current-students/managing-your-course/fees-and-payment/student-services-and-amenities-fee-ssaf

Disclaimer: The University of Technology Sydney (UTS) has used its best efforts to ensure that the information contained in this guide was correct and current at the time of publication (October 2018). The information is provided in good faith as a guide and resource for new students. UTS accepts no responsibility for any error or omission. Information contained in this guide is subject to change from time to time. You are advised to check the accuracy and currency of the information with the relevant faculty or unit within UTS, or with the relevant external organisation, before acting upon the information.

Images: Jamie Williams, Anna Zhu, Toby Burrows, Sean Maguire, Shane Lo, Matthew Duchesne, Carmen Lee Platt, Jesse Taylor, Christopher Shain, Jamie Williams & Andy Roberts
22051 OCTOBER 2018

Connect with us



UTS_GRS

Domestic application enquiries

E: grs@uts.edu.au

T: +61 2 9514 1336

International application enquiries

E: international.research@uts.edu.au

T: +61 2 9514 1336

All scholarship enquiries

E: research.scholarships@uts.edu.au

T: +61 2 9514 1336

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