

Research communiqué

Research news at Charles Sturt
Autumn 2023

Start 



Contents

☰ Welcome

Welcome from the Deputy Vice-Chancellor (Research)

☰ Yindymarra Nguluway

Our story

Spotlight

News

Articles and media

Yindymarra podcast

Events

☰ AICF

Artificial Intelligence and Cyber Futures Institute (AICF)

Blog

☰ Gulbali Institute

Gulbali Institute for Agriculture, Water and the Environment

Reflection

News and media

Conferences

Publications and articles

Grants

☰ Rural Health Institute

The Rural Health and Medical Research Institute

News and media

☰ Faculty Research

Spotlight

Conferences, workshops and keynote addresses

Podcasts and blogs

Research news

Grants

Awards

Publications and articles

☰ ACC&C

The Australian Centre for Christianity and Culture (ACC&C)

Spotlight

Events

☰ AgriPark

AgriPark

Digital Agrifood

evokeAG conference

☰ Provocations

☰ Research outputs



Welcome to our new look Research Communiqué!

Research Communiqué aims to provide: 1) the latest information on our research services and learning development programs to support excellence in research here at Charles Sturt; 2) a deep dive into research produced by our research institutes, faculties and collaborative centres; and, 3) updates on our research engagement activities (events, blogs, workshops and conferences) for disseminating our research findings to the academy, industry partners and community.

Research Communiqué provides a measure of the incredible breadth of our research endeavour here at Charles Sturt.

It also provides recognition of the talent and dedication of our researchers to achieving Yindymarra Winhanganha, the University's Wiradjuri ethos of creating a world worth living in.

My personal thanks to Nilima Mathai for her great work in putting together our first Research Communiqué of this year.

We hope you enjoy the issue!

Mark Evans

Deputy Vice Chancellor Research

The first people touched this land as our continent was being formed.

Here they formed a civilisation that continues to this day.

Their birthright has never been ceded.

Those people live still in their descendants.

With their grace and generosity, we enter into their heritage and respect their traditions.

We honour too those who have come from other lands and carry with them their cultures and faiths.

Though our bonds may strain, we seek to live together in harmony.

Though we may disagree, we find no enemy among us.

We are all equal in dignity.

Source: adapted from Professor Stan Grant's 'Australia Day' (Harper Collins, 2019)

Yindymarra Winanghana: *“To live with respect in a world worth living in.”*

Yindymarra is a Wiradjuri word, preserved and handed down to us by Uncle Stan Grant Senior. Stan Grant Senior has dedicated his life to Yindymarra. He has kept alive the Wiradjuri language. Language, he says, does not tell you who you are but where you are.

Yindymarra. A way of being. To live with respect. To walk softly. To sit in the silence. To seek to understand, not to be understood.

What more could our democracy – could our world – need more now than Yindymarra?

Nguluway, the Wiradjuri word for meeting.

Yindymarra Nguluway is a place where peoples meet: a non-partisan space where discussion is encouraged and civil disagreement is welcomed.

In the spirit of his father and of his people, Stan Grant, Professor of Indigenous Belonging and Yindymarra Nguluway Founding Director, brings Yindymarra to bear on the challenges of our times.

To make the world a home for forgiveness, justice, mercy, and love.



Photo: Sydney Morning Herald - Uncle Stan Grant Senior and Stan Grant



Billy Bragg and Stan Grant - I Ain't Got No Home (Woody Guthrie) | Live on Q+A



Professor Dominic O'Sullivan

Honorary Fellow of the Royal Society of New Zealand

Professor Dominic O'Sullivan has been elected as one of the four Ngā Ahurei Honore a Te Apārangi Honorary Fellows of the Royal Society of New Zealand.

Being made a Fellow is an honour that recognises distinction in research, scholarship or the advancement of knowledge at the highest international standards. Fellows can use the post-nominal 'FRSNZ' after their name to indicate this honour.

Professor Charlotte Macdonald FRSNZ, Chair of the Academy Executive Committee, said it was impressive to see the strength of Aotearoa New Zealand's research communities in the cohort of New Fellows.

"The newly-elected Ngā Ahurei Fellows have made contributions to knowledge at the highest levels in their different fields and across disciplinary boundaries. Their election adds significantly to the breadth of knowledge held within the Academy and will support Te Apārangi to engage and inform New Zealanders on a diverse range of important topics."

"The election process is rigorous and new Fellows can be rightfully proud to be recognised by their peers in this way. On behalf of the Academy and Society, I heartily congratulate all the new Fellows." [Read more...](#)



Warangesda Festival

On February 17 and 18, Professor Stan Grant, Professor Mark Evans, and Yindymarra Research Fellow Jack Jacobs attended the Warangesda Festival on the Warangesda Mission at Darlington Point.

Organised and hosted by Kerry Johnson, Artistic Director of Burrundi Theatre, the Festival honoured Warangesda as a historical and living home of the Wiradjuri people.

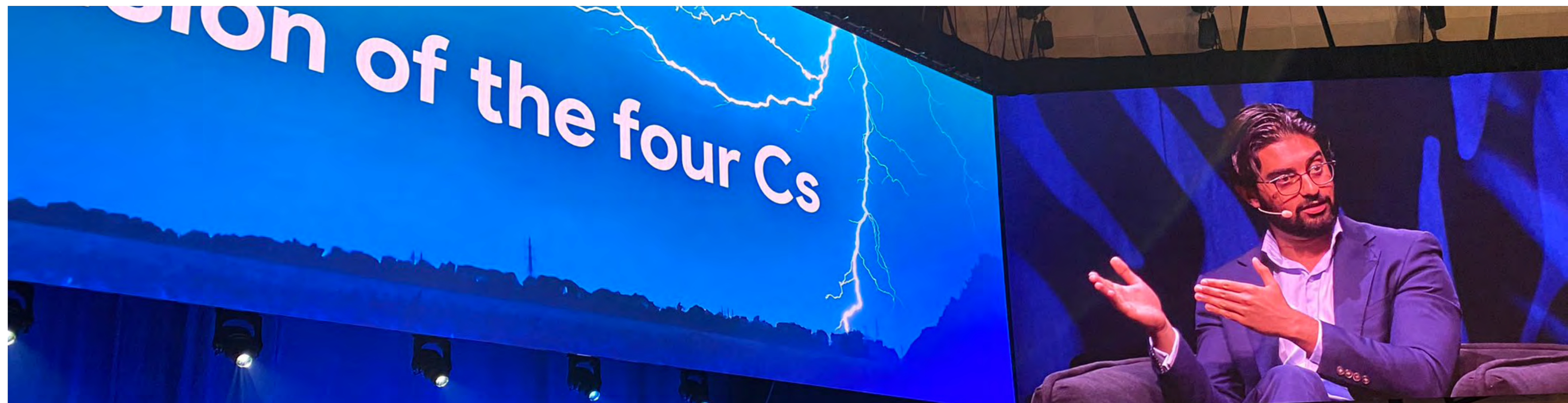
Stan hosted four Yindymarra Talks panels with leaders in the Wiradjuri community, including: Teela Reid, Professor Sue Green, Rob Williams, Dhani Gilbert, Braden Lyons, Darren Wighton, and more.

Topics of discussion included the Legacy of Survival at Warangesda, the Voice to Parliament, Wiradjuri Nation-building, and Wiradjuri Arts and Culture.



AgriFutures evokeAG

At the AgriFutures evokeAG conference in Adelaide in February, Yindymarra Research Fellow Jack Jacobs hosted a panel on Opportunities in Agriculture: First Nations perspectives with First Nations leaders in the agricultural-technology space. He also participated as a panellist on the event's hallmark panel, "The collision of the four C's: Covid, Climate, Conflict, and Cost."





Professor Dominic O'Sullivan

What Australia could learn from New Zealand about Indigenous representation

A referendum will be held later this year to enshrine a First Nations' Voice to Parliament into the Australian constitution. The [draft question](#) for the referendum is “Do you support an alteration to the Constitution that establishes an Aboriginal and Torres Strait Islander Voice?”

Prime Minister Anthony Albanese said [in a speech](#) last month the Voice should give First Nations' people a “say” in public policy. He said “it is common courtesy to consult people when you're taking a decision that affects them”.

But a “say” is still not the power to make decisions. An ongoing question is whether the proposed Voice should instead make First Nations peoples authoritative participants in the rights and responsibilities of government.

In New Zealand, Māori are represented in parliament through [designated seats](#). This arrangement was established in 1867, to ensure a Māori voice in rather than to parliament. Being in parliament means being able to serve as a minister or, if a member of the opposition, being able to participate in holding the government to account.

The proposed Voice won't have the power to make decisions because it won't be a parliamentary chamber, as the House of Representatives and the Senate are. The government is formed in, and responsible to, the House of Representatives. The Voice won't be able to pass laws and its members will not be ministers in government. [Read more...](#)



Indigenous update: Voice wording gets closer, and what can be learnt from Maori democratic participation

Listen to Professor Dominic O'Sullivan's interview on [ABC's Late Night Live program](#)

Join Stan Grant and Jack Jacobs as they explore the Wiradjuri philosophy of Yindymarra and how it might guide us through the challenges facing nation-building and democracy in Australia and around the world.



#1 Saving Democracy with Professor Mark Evans

Join Stan and Jack in their launch of the Yindymarra Podcast. They discuss Saving Democracy with Professor Mark Evans, Deputy Vice Chancellor (Research) at Charles Sturt University. ▶

#2 Love and Democracy with Professor Anthony Maher

Join Stan and Jack as they speak with Professor Anthony Maher, Executive Director of the Australian Centre for Christianity and Culture, about God, hope, and how faith traditions might help us address the wounds of history through forgiveness and love. ▶

#3 First Nations Sovereignty with Professor Dominic O'Sullivan

Join Stan and Jack as they discuss with Dominic O'Sullivan, Professor of Political Science at Charles Sturt University, the complex challenges facing First Nations peoples in exercising their sovereignty. How might the Voice affect sovereignty? What should we keep in mind when thinking about treaties? These questions and more are explored in this conversation. ▶

#4 Navigating the Voice Debate with Luke Pearson

Join Stan and Jack as they speak with Luke Pearson, the Founder and CEO of Indigenous X. They discuss the ideological fractures emerging in the political landscape around the Voice, Indigenous conceptions of sovereignty and nation-building, and whether Indigenous sovereignty can operate within a democratic framework. ▶

#5 Between Worlds with Dr Simon Longstaff AO

Join Stan and Jack as they speak with Dr Simon Longstaff AO, Executive Director of The Ethics Centre. They discuss Simon's unique experience entering into and becoming part of an Aboriginal family, the relationship between the Dreaming and the Enlightenment, and the role of the public intellectual in the Voice debate. ▶

#6 Reckoning with Racism with Teela Reid

Join Stan and Jack as they speak with Teela Reid, Wiradjuri and Wailwan woman, lawyer, essayist, and leading advocate for a First Nations Voice. They discuss how racism towards First Nations people is increasing, Teela's recent experience being on country at the Warangesda Mission, the tension between reckoning and reform, and what it would take for a Voice – and the wider vision of the Uluru Statement – to mark a nation-building moment for Australia. ▶

An evening with Stan Grant

Wednesday 10 May

Join us in Canberra for the launch of Stan Grant's upcoming book, *"The Queen is Dead"* (HarperCollins). The evening will consist of reflections and readings by Stan and a conversation on the book between Stan and Yindymarra Research Fellow Jack Jacobs. [Registration](#)



Artificial Intelligence and Cyber Futures Institute(AICF)

Artificial Intelligence and Cyber Futures Institute (AICF) is a new research institute at Charles Sturt University that aims to become a world-class research centre of excellence in data science, artificial intelligence and cybersecurity, to pursue the agenda of regional discovery, showing how AI developed ‘off the beaten track’ and ‘in the wild’ can better serve not only rural and regional communities, but society as a whole, creating a new comparative advantage for Australia internationally.

Current work in the area of data science and AI happens primarily in large cities, which makes the production of research outcomes particularly relevant for people, algorithms, and complex systems located in large metropolitan areas. Yet, according to the United Nations, 3.4 billion people live in rural areas. These people are currently unable to enjoy the benefits of data-driven research as technologies, which work in large cities, but are not always operational, effective, and, most importantly, relevant, for regional communities.

AICF will explore how regional and rural data, data-driven tools, practices developed based on these data and tools, as well as systems that combine human-machine interactions in non-urban environments can be developed, enhanced and popularised to benefit society as a whole. Such data, tools, practices, and systems, due to their inherently inclusive, diverse, and sustainable nature will suggest new pathways to: building trustworthy data-driven systems; embedding transparent reporting practices in all AI-related research; promoting inclusive interoperable AI design relevant not only to cities but also to rural areas; maintaining ethical integrity of AI-driven designs, which should not exploit rural populations for the benefit of urban systems; and encouraging respectful co-creation between regions and cities.

The AICF will seek to discover possible, feasible, and desirable regional futures, by advancing data science, artificial intelligence, and cyber security research to achieve a positive change in complex regional environments. The core principle of the AICF is research excellence, which implies having the best talent focused on challenging problems, working with dedication, integrity, sophistication, and responsibility.



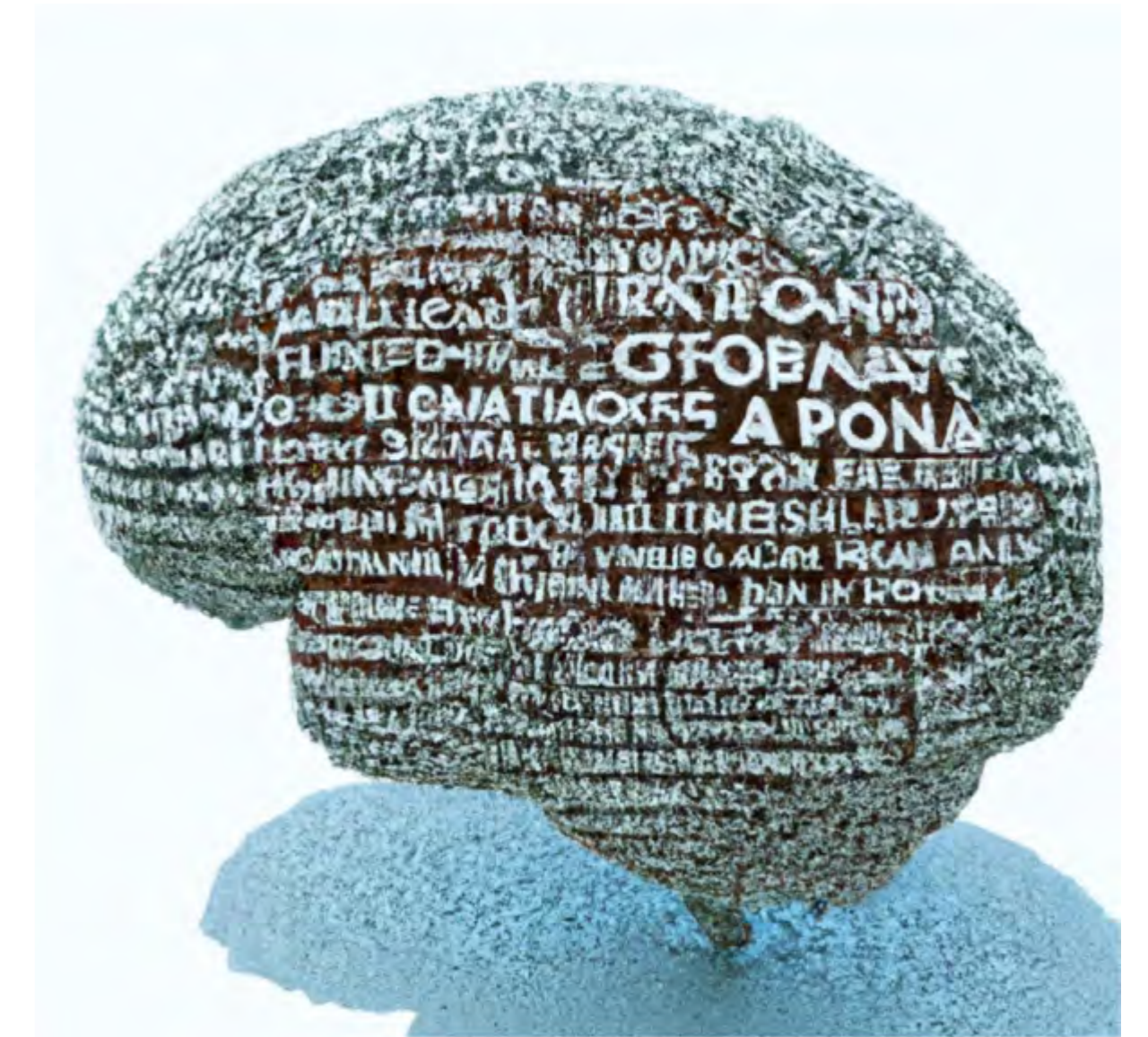
Generative AI: Einstein or Frankenstein?

Professor Ganna Pogrebna

The advent of artificial intelligence (AI) has been a game changer for many industries, and education is no exception. Recently, generative AI made headlines with the development of ChatGPT and other conversational AI-based tools. Generative AI is a type of artificial intelligence that involves creating new data, images, videos, music, or other content. It uses machine learning algorithms to analyse and learn patterns from existing data and generate new, unique content, based on those patterns. Generative AI can be used for a wide range of applications, from generating art and music to creating realistic images and videos, and even producing new ideas or solving complex problems. Apart from ChatGPT, some popular examples of generative AI include [deepfakes](#), which use AI to create realistic but fake videos or images, and chatbots like [YouChat](#), which use natural language processing to generate responses to user queries.

While generative AI may offer benefits for the educational sector in general and for education in rural and regional areas in particular, it may also be a source of harm. On the one hand, the development of generative AI like ChatGPT has its pros for education in regional and rural areas. For many students in these areas around the globe, access to quality education can be a challenge due to a lack of resources and infrastructure. However, with the help of technology like ChatGPT, students can access a wealth of information and support regardless of their location. Such technology can be used as a training tool (i) to showcase to the student how to approach homework assignments, (ii) to provide examples of exam-style questions, and even (iii) to offer support for students struggling with their coursework. More specifically, generative AI, if applied correctly, has an ability to provide personalized learning experiences and generate live feedback, thereby aiding educators in rural areas, who are often unable to work with each student separately due to limited resources, large class sizes, geographic isolation, student mobility, and other issues.

Yet, there are also concerns about the impact of generative AI on the traditional forms of educational assessment. For example, concerns have been raised that chatbots may be the death knell for essays as an assignment for education. This is because the responses generated by the chatbot are so well-articulated that they can be difficult to distinguish from those written by human students. This problem, however, is not new. For many years, academia has been fighting against the “[essay mills](#)” – businesses, which offer pre-written or customized essays to facilitate student academic fraud. Chatbots like ChatGPT are not designed to support contract cheating. At the same time, the very nature of generative AI implies that it may “make up” evidence, events, and facts, which do not exist and have never existed. Though chatbots are often designed with built-in safeguards, such as fact-checking mechanisms, to prevent them from providing false or misleading information, these safeguards are not foolproof, and there is always the risk that chatbots could provide inaccurate or misleading information. A typical example of this is ChatGPT, which engineers non-existent scientific references, generates fake quotes from people who never existed, and even makes up historical facts. While it is fair to say that responsibility for discerning the accuracy and reliability of information ultimately rests with the individual user who passes on the false information, the danger of overreliance on generative AI is that in the current era of speed, information, and convenience, too much false information may be ultimately produced. In the current



Source: This image generated by AI. No humans or algorithms were harmed in the process of its generation.

“[post-truth](#)” era, when emotional appeals and personal beliefs are often more influential in shaping public opinion and political discourse than objective facts or evidence, this is particularly dangerous.

To fully realize the potential of generative AI in education, it is important to develop robust ethical and regulatory safeguards as well as to produce comprehensive yet accessible user guides to clearly explain to educators and students the benefits and limitations of generative AI. AI and Cyber Futures Institute (AICF) at Charles Sturt University is dedicated to exploring the ethical and societal implications of AI and cyber technologies and developing strategies to ensure their safe use. Within its Responsible AI strand, AICF is exploring the applications of generative AI in education and developing guidelines to suggest their ethical and responsible implementation modes. This includes ensuring that users of generative AI have transparent and user-friendly understanding of generative AI abilities, and that these abilities are used in a manner that promotes individual learning and development.

Ultimately, ChatGPT and other generative AI technologies are a product of human data, made by humans with human users in mind. Because of that, such technologies carry all the errors human are prone to and this is the fact that all of us should remember when we engage with generative AI tools.

While many problems remain to be solved in this domain, only through educating people about the limitations of generative AI and through the power of the critical and open discussions about the underlying issues of this technology will we, as a society, be able to turn the Frankenstein of generative AI into an Einstein of personalized education, capable of helping rural and regional communities to maximize their potential.



Professor Ganna Pogrebna
Executive Director, Artificial Intelligence and Cyber Futures Institute

Gulbali Institute for Agriculture, Water and the Environment

The Gulbali Institute creates impactful integrated agriculture, water and environment research, which is grounded in our footprint across the Murray–Darling Basin, but with impact across Australia and globally. The Institute focuses on our research strengths in the areas of optimising farm systems for performance and sustainability, and enhancing the health and resilience of freshwater ecosystems. The Institute brings together multidisciplinary research teams, enabling a holistic research approach that provides comprehensive, authoritative solutions reflective of our economic, natural and social aspirations. The Institute will focus on research that addresses significant national challenges and government, industry, and community strategic imperatives. Our multidisciplinary approach and the application of an innovation framework will lead to the translation of research into viable industry partnerships. But we also recognise that it is important to recognise that Country is not just about land 'environment'; it also includes social and spiritual aspects that influence the mind and the body.





Professor Mark Evans

On Gulbali Day

Professor Mark Evans

I spent Friday the 17th March or what we now call Gulbali Day in Albury with members of the Gulbali Institute for Agriculture, Water and the Environment, other research leaders and members of the Wiradjuri nation. The Institute derives its name from the Wiradjuri term “Gulbali ngurambang” which translates to “Understanding Country”. Gulbali Day, celebrates First Nations ways of being, knowing and doing research. We are particularly concerned that the gift we have been given by the Wiradjuri nation is not used as a branding tool but is authentically embedded in our research practice.

With this aim in mind, we partnered with Bundyi Girri Consulting to convene an action based workshop involving leading researchers across the Gulbali research programs and external partners. The theme of the 2023 Gulbali Day was “equity” and “trust”. The workshop challenged participants to explore ways we can establish ethical sharing practices around the use of First Nations knowledge and systems of thought. This is a key step towards establishing the principles of “equity” and “trust” and learning how we, as researchers, can embody the principle of First Nations sovereignty and ways of knowing and being into our daily activities and lives.

The event was facilitated by Bundyi Girri and Professor Stan Grant Jnr from Charles Sturt.

It was a day of sense making at both the individual and collective levels.

What does it mean to demonstrate Yindymarra values in our work? This is what I learned.

I am a foreigner in this majestic land.

Any cultural authority I have comes from the Wiradjuri nation.

It is shared in the spirit of Yindymarra.

Any legitimacy in my role flows from my adherence to the principles of Yindymarra Wunungana.

Being in country. Knowing where we are not who we are. Deep respect for the knowledge of the Wiradjuri nation. Sharing wisdom for the common good.

These are gifts to be earned not accepted.

Yindymarra provides us with an anchor in a world of change that emanates from the alignment of spirit, people and place.

How can my practice be informed by Yindymarra?

I enter into a covenant with the Wiradjuri nation to abide by Wiradjuri law.

To do no harm.



Professor Mark Evans

To recognize, respect, protect and cherish Wiradjuri knowledge.

To engage in shared wisdom with the Wiradjuri nation for the common good.

To assure that my work with the Wiradjuri nation benefits the Wiradjuri people and strengthens Yindymarra.

In this way, with humility, I embrace the Yindymarra gift and through our work and shared love for country we can become us.

I should clarify some of these thoughts.

Given that I have spent most of my life in the United Kingdom it is not surprising that my identity is still largely expressed through being British and (despite Brexit) European. Two of my children consider themselves to have an Australian identity.

Why does this matter here? It is far easier to recognise myself as a foreigner in this land. I have no Australian stories in my family of settlement, repression and survival. My re-settlement story has been characterised by privilege and comfort.

Even though I have no blood in the land I breathe in Wiradjuri history.

My covenant with the Wiradjuri people is therefore unconstrained by history.

My commitment is to the present and the future.

To ensure that past atrocities remain in the past.

To understand our democracy through the eyes of the Wiradjuri nation as a repressive rather than emancipatory force.

To accept that many of the problems of democracy that we presently encounter stem from the persistence of social, economic or political inequality that have arisen from the yoke of majoritarianism and that these inequalities are suffered disproportionately by First Nations people.

Our covenant with the Wiradjuri nation must therefore also include firmly embedding and creating empowering political and socio-economic conditions at the national and community levels to ensure that our democracy is not a preserve of a contented ancien regime.



Amina Price and Zac Rolfe check the fish and larvae four or five times a day.(ABC Goulburn Murray: Allison Jess)

Charles Sturt University team breeds critically-endangered stocky galaxias fish

A small team at Charles Sturt University's Thurgoona campus in Albury has successfully bred the critically-endangered stocky galaxias fish.

University staff member and project leader of the captive breeding project, Dr Amina Price, said the breakthrough was the first time anyone had seen newly hatched larvae for the species.

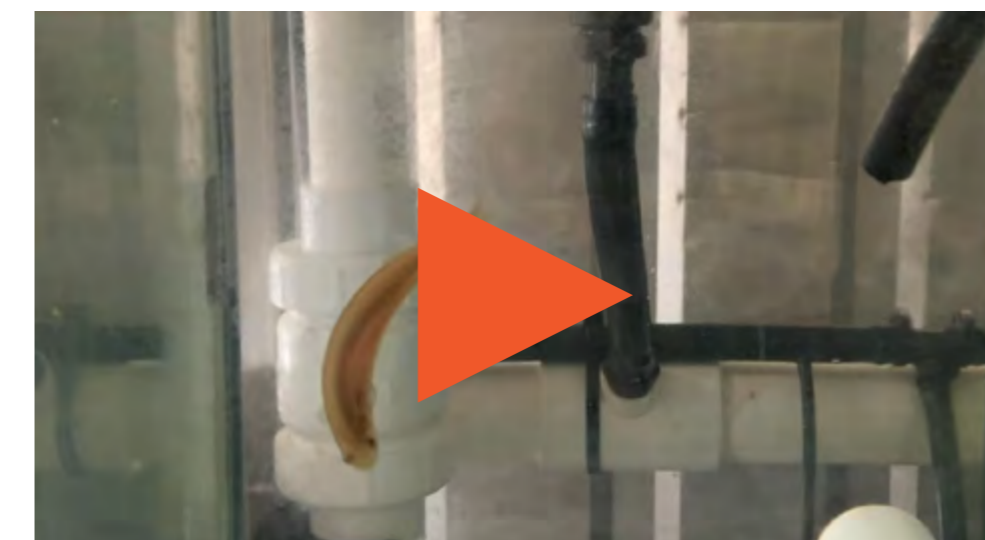
"It's really exciting what we are doing here."

Anna said stocky galaxias, a small freshwater fish, were only discovered in Australia in 2014.

"At this time, it was a single population in Tantangara Creek discovered in the Snowy Mountains in Mount Kosciuszko National Park," she said.

She said a second population was also found at another location in the Kosciuszko National Park in late 2020.

"Trout are the biggest predator to these fish and we find the only places these fish can persist is places like the very top of Tantangara Creek where there is a waterfall which restrict trout from getting up into that top section," she said. [Read more...](#)



Stocky galaxias have been bred in captivity.
(ABC Goulburn Murray: Allison Jess)



eDNA research aims to protect Manning River Turtle

A Charles Sturt University early career environmental researcher aims to help save endangered turtle species by developing environmental DNA (eDNA) sampling methods that can be used by citizen scientists, not just trained researchers.

Dr Jessica Tout-Lyon (pictured on the left) Lecturer and early career researcher in the Charles Sturt School of Agricultural, Environmental and Veterinary Sciences in Port Macquarie and the Charles Sturt Gulbali Research Institute of Agriculture, Water and Environment said anything that has DNA or leaves DNA in the environment can be studied.

Her previous research has focused on using eDNA to study the ecology of coral reefs and potential pathogenic bacteria during coral bleaching events.

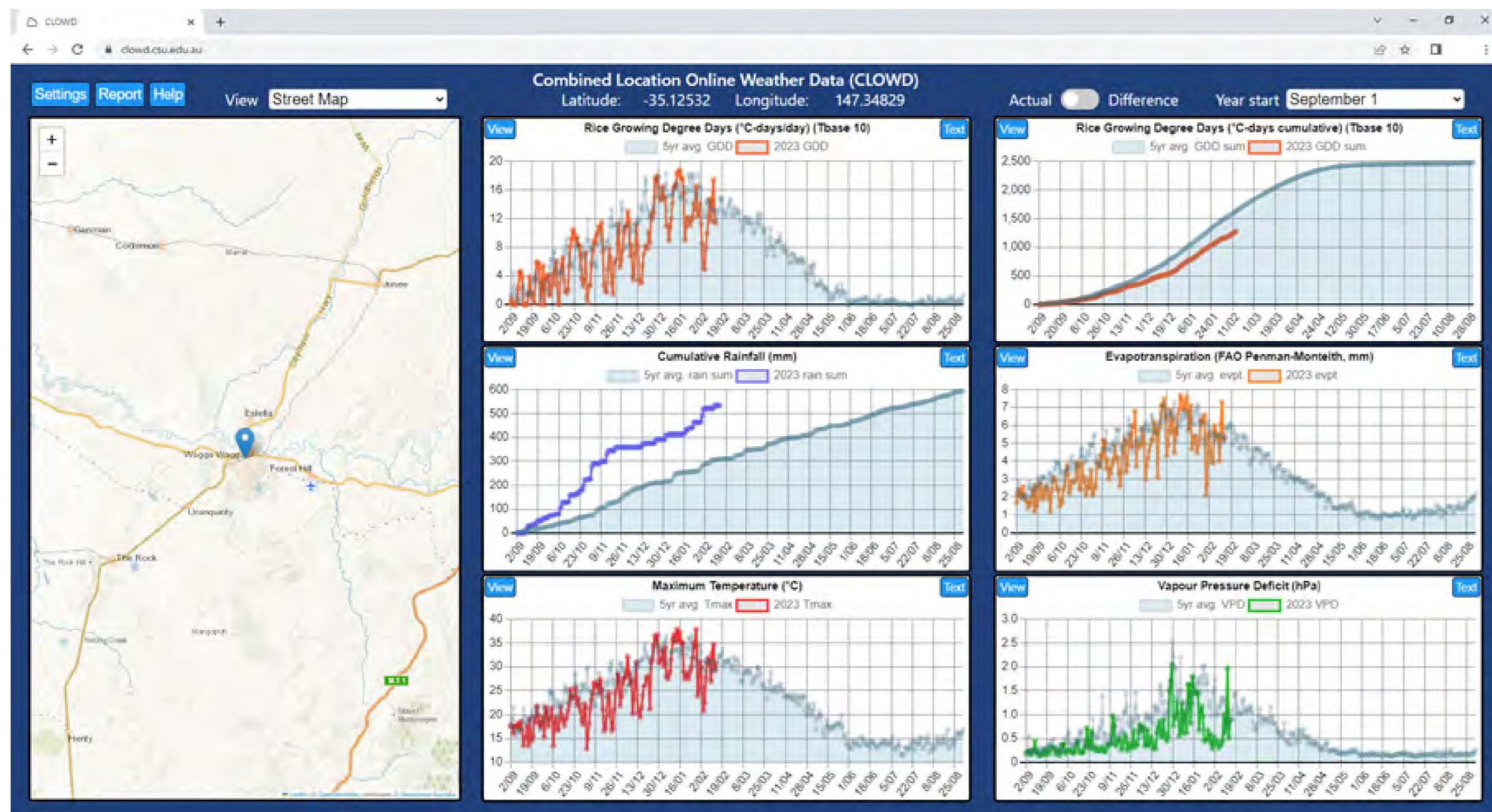
Jessica said over 50 per cent of turtle species are at risk of extinction, making them one of the most threatened vertebrate groups globally. [Read more...](#)

CLOWD – Australian weather data analysis at the click of a map

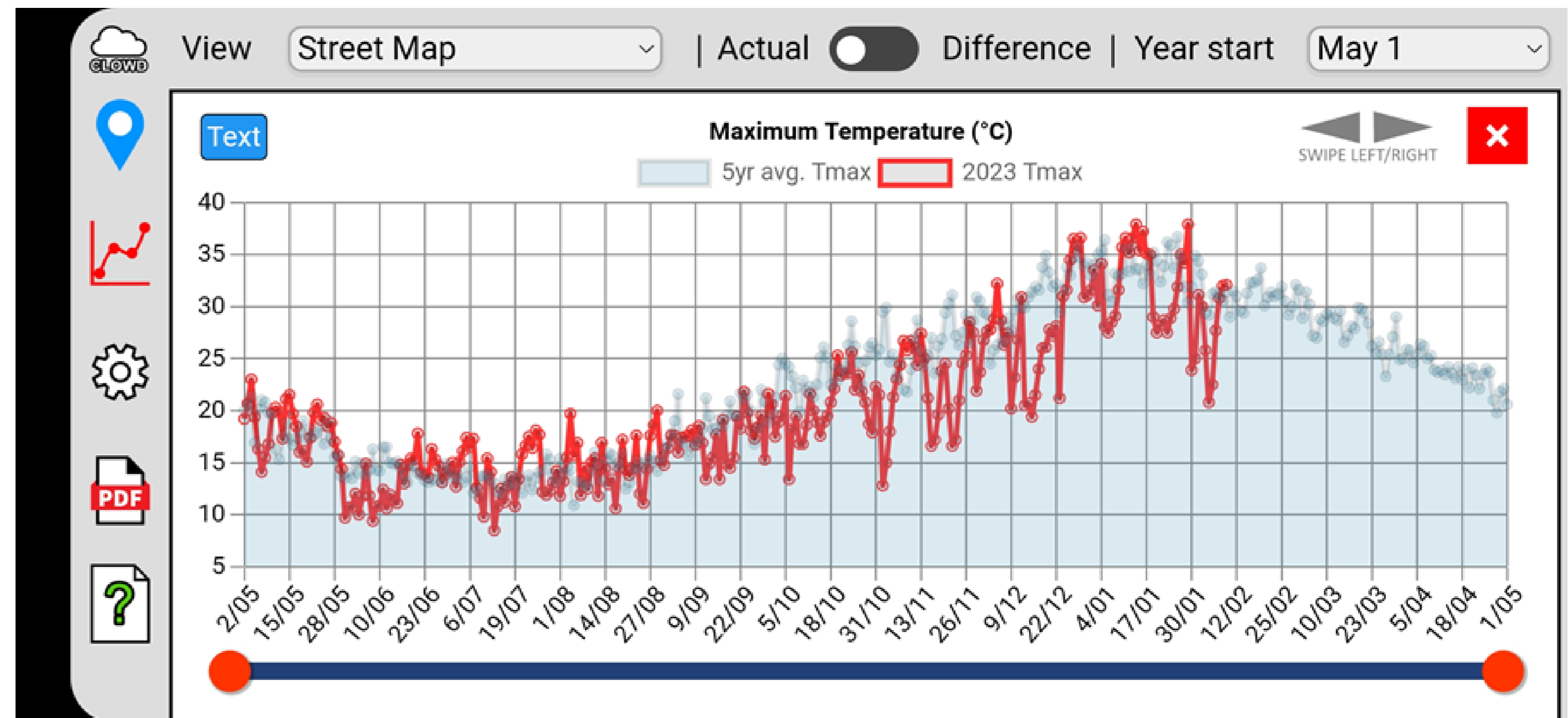
Analysing weather data is an increasingly important part of crop management and while weather data is readily available, it often comes in a form not easy to manage. CLOWD (Combined Location Online Weather Data) is a new web-based framework for PCs and smartphones enabling comparative analysis of recent and historical weather variables for any location in Australia at the click of a map. CLOWD incorporates technologies including natural language generation (NLG) for chart conversion into plain-English text and can automatically generate PDF reports. Users can also select the ‘Year Start’ date to initialise seasonal analysis. CLOWD is highly customisable and while designed for agriculture, has scope for any industry affected by the weather.

CLOWD is available now, at <https://clowd.csu.edu.au> for PCs; <https://clouds.csu.edu.au> for smartphones.

For more information, contact Dr Darren Yates at clowd@csu.edu.au.



CLOWD (PC version)

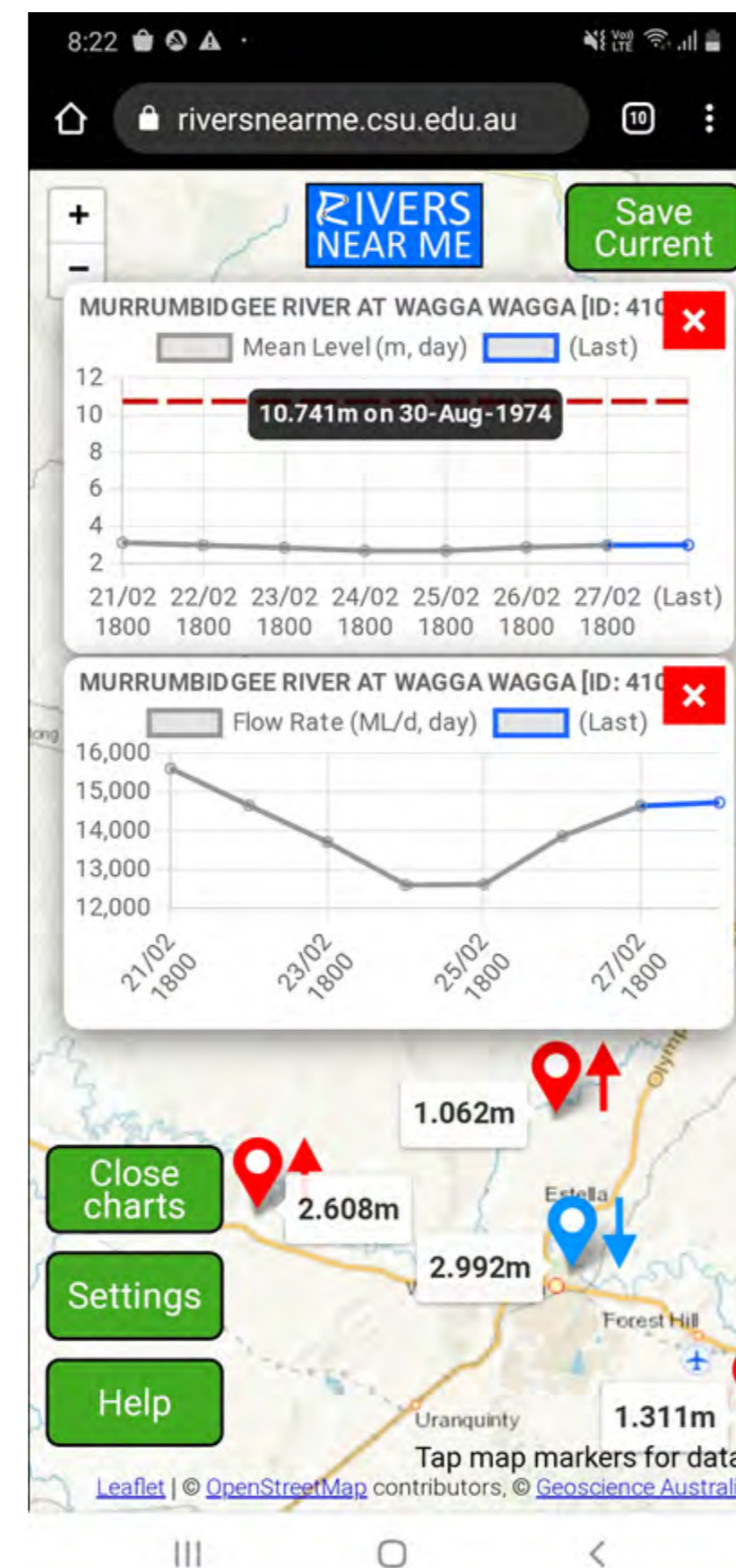


CLOWD (smartphone version)

RiversNearMe – know your rivers, fast

The effects of climate change continue to be felt in extreme weather events, from blazing bushfires and fast-flowing floods to devastating droughts. Knowing the level of nearby rivers can be just as vital for those in low-lying communities, as knowing water flow-rates can be for farmers and growers. However, finding this data quickly is not always easy. RiversNearMe is a new prototype web application for smartphones that displays available river level and flow-rate data for any rivers within a 70kms-radius of your selected NSW location at the click of a map. The web application is customisable and can show river level record peaks, along with river level and flow-rate trends over the last seven days or last seven hours. RiversNearMe requires no installation and runs on iOS (Apple) and Android devices.

RiversNearMe is available now, at <https://riversnearme.csu.edu.au>



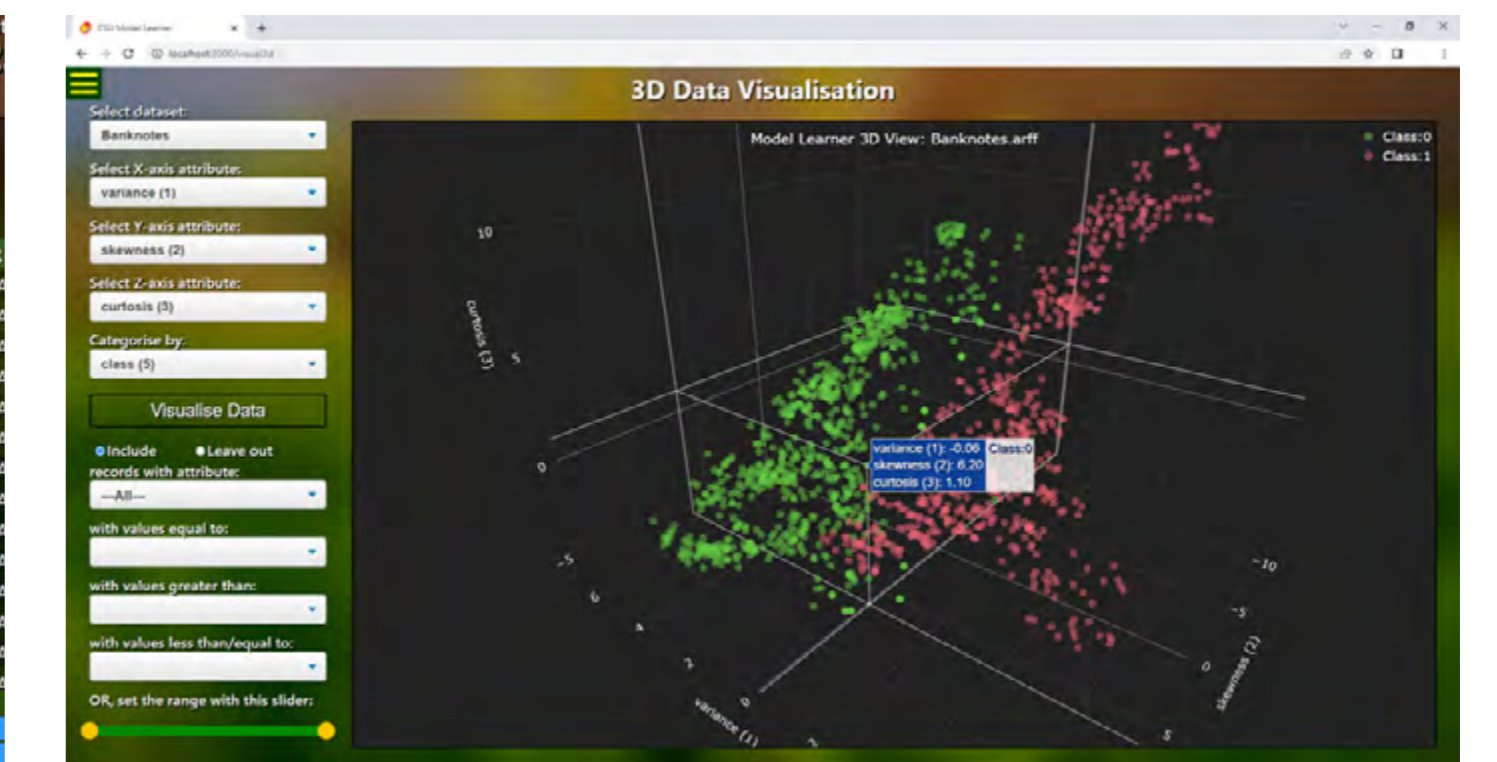
RiversNearMe

ModelLearner – machine-learning, no programming required

Machine-learning and artificial intelligence are building the next-generation knowledge systems for many industries, but generally require a broad array of skills to master. ModelLearner is a new prototype framework that aims to remove one of the key barriers, the ability to program a computer – to ‘code’. ModelLearner operates in a web browser and initiates learning of models in cloud infrastructure without the need to know any programming language – ModelLearner does the hard work for you. The application offers model building and testing using popular machine-learning algorithms, 2D and 3D data visualisation, plus record prediction. ModelLearner was successfully designed for one of our research project partners and is an example of the ‘full stack’ software development skills CSU can bring to the next generation of research projects.



ModelLearner



ModelLearner

For more information, contact Dr Darren Yates at cloud@csu.edu.au.

Red meat glycans for health research at Gulbali

Professor Bing Wang

Meat from a range of species has provided a cornerstone for the diets of different ethnic groups across our globe since the advent of mankind. We have learnt in recent times that the desirability of the flavour of meat is accompanied by an improvement in our understanding of its nutritional value to our diet given that it provides a rich source of creatine, magnesium, zinc, omega 3 fatty acids, high quality protein, and iron, all of which play a significant role in promoting the health and proper functioning of our organs and in particular our musculature. However, our knowledge of the importance of some nutrients in meat are now just starting to come to light. The family of 9 carbon sugar molecular, sialic acids (Sia) has been implicated in physiological and pathological processes as they are widely distributed among many polysaccharides, glycoproteins, glycolipids expressed within our body. Only now are we realizing the importance of these structures in our diet, red meat.

The two major forms of Sia found in most mammalian cell types are N-acetylneuraminic acid (Neu5Ac) and N-glycolylneuraminic acid (Neu5Gc). The newest member of the Sia family is 2-keto-3-deoxy-D-glycero-

D-galacto-nononic acid (KDN), which is often expressed at lower levels than Neu5Ac and Neu5Gc. Neu5Ac is a human Sia that serves as an essential nutrient for neurodevelopment, cognition, and immune function. However, an increasing number of studies show a relationship between the consumption of the red meat-derived, non-human Sia, Neu5Gc, and inflammation, cancer progression, cardiovascular disease, and several autoimmune diseases (Samraj etc PNAS 2015). CSU team published in Q1 journal **Foods** [10.3390/foods12020337](https://doi.org/10.3390/foods12020337) and **Food Chemistry** <https://doi.org/10.1016/j.foodchem.2020.128439>

Our new findings show that human Sia (Neu5Ac) was the most abundant form of Sia in all muscles and organ meat (60~90%) in the tested 9 animal species. The goat muscle meat expressed the highest Neu5Ac (662 µg/g protein) following by sheep, pig, dog, deer, horse, kangaroo and cattle respectively. Among organs, kidney contained the most Neu5Ac (1992-3050 µg/g protein) across species. Nine commercial sheep meat cuts contained similar levels of Sia. Thus, red meat provides a significant amount of human Sia Neu5Ac for health promotion. We were surprised that non-human Sia Neu5Gc is not expressed in all organs and muscles of 9 animal species, as Neu5Gc was not detected in

kangaroo and dog muscles and 7 organs of female deer. Total Neu5Gc in organs was generally about 2- 54% higher than in muscle. Previous studies have shown Neu5Gc can incorporate into human cells by eating red meats and some dairy products, and the immune system recognizes it as a foreign threat, producing antibodies to counter it. Therefore, the high concentration of Neu5Gc in organ meats should be avoided for consumption, especially spleen and lungs.

We summarised that the red meat-derived Sia Neu5Ac, Neu5Gc and KDN is tissue and species-specific. Our study provides guidelines for the selection of animal meat products for consumers relating to Neu5Ac and Neu5Gc to promote health and prevent inflammatory disease. Our work sheds light on the functionality of red meat glycan Sia for human nutrition.



Computational methods for fluid flows

Dr Zhenquan Li

School of Computing, Mathematics and Engineering

Although fluid flows are commonplace, we still have not found a way to simulate them precisely. One example is cyclone forecasting. If we can determine the accurate location for the centre of a cyclone at every instant, we can forecast the path of the cyclone accurately. We have mathematical equations that model fluid flows accurately after long-term verifications. However, the exact solutions of the equations are not yet available. Currently we calculate the numerical solutions of the equations using computers. A limitation of using computers is that we can only perform finite operations. However, there are infinite points in a domain of interest (for example, if we want to forecast the Canberra weather, the domain of interest is a region much larger than Canberra). My research in computational methods is to create techniques for the selection of finite points in a domain that provides sufficient information about the characteristics of flows in that domain. I have received a large grant (2000-2003) from the New Zealand government for the theoretical research of

the methods; several grants (2004-2010) from The University of South Pacific for the investigations of the methods I proposed based on the theory on accuracy, reliability and efficiency in 2D (two dimensions) and 3D (three dimensions) and practical applications in 2D; and a few projects (2011-2016) from CSU FBJBS and former ILWS for programming of the proposed methods in 2D and a part of 3D cases in Matlab for more verifications. I have been waiting for funding for a C++ programmer to implement the proposed 3D method or CSU permission to share the method with a software company for the implementation. Wider practical applications of the 3D method will follow.



Contents



Gulbali Institute - Conferences ▾



Professor Shokoofeh Shamsi was invited as a plenary speaker to the 108th Indian Science Congress, held in R.T.M. Nagpur University, Nagpur, India, 3-7 January 2023. The theme for this year's congress was Women's Empowerment. The Indian Science Congress is a vast coalescence of eminent and renowned scientists as well as Noble laureates from every corner of the world that is organized every year in the first week of January. The President and the Prime Minister of India inaugurated the Indian Science Congress.

The topic of Shokoofeh's presentation was on the emerging threat of parasites to global food safety.



NEXT >

Advanced Theory and Simulations, Phytosterol, Tocopherol and Carotenoid Retention during Commercial Processing of Brassica napus (Canola) Oil, and The hitchhiker's guide to Australian conservation: A parasitological perspective on fauna translocations

Advanced Theory and Simulations

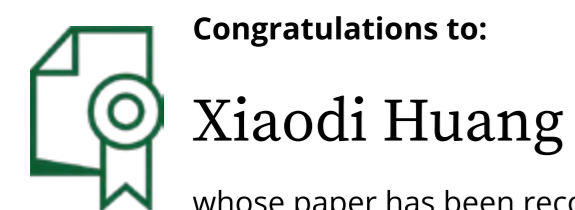
Qinwei Fan, Zhiwen Zhang, Xiaodi Huang, Parameter Conjugate Gradient with Secant Equation Based Elman Neural Network and its Convergence Analysis,

Advanced Theory and Simulations, 2022,5,2200047, <https://doi.org/10.1002/adts.202200047>, published: 09/ 2022



WILEY

Top Cited Article 2021-2022



Congratulations to:

Xiaodi Huang

whose paper has been recognized as a top cited paper* in:

ADVANCED THEORY AND SIMULATIONS

Parameter Conjugate Gradient with Secant Equation Based Elman Neural Network and its Convergence Analysis

*Among work published in an issue between 1 January 2021 – 15 December 2022.

Phytosterol, Tocopherol and Carotenoid Retention during Commercial Processing of Brassica napus (Canola) Oil

Flakelar, C.L.; Adjonu, R.; Doran, G.; Howitt, J.A.; Lockett, D.J.; Prenzler, P.D. Phytosterol, Tocopherol and Carotenoid Retention during Commercial Processing of *Brassica napus* (Canola) Oil. *Processes* 2022, 10, 580. <https://doi.org/10.3390/pr10030580>

This recently published article in the international, peer-reviewed journal *Processes* "Phytosterol, Tocopherol and Carotenoid Retention during Commercial Processing of Brassica napus (Canola) Oil" has been chosen as an Editor's Choice article for a Special Issue of the journal. Editor's Choice articles "aim to provide a snapshot of some of the most exciting work published in the various research areas of the journal", and only a few are selected as such.

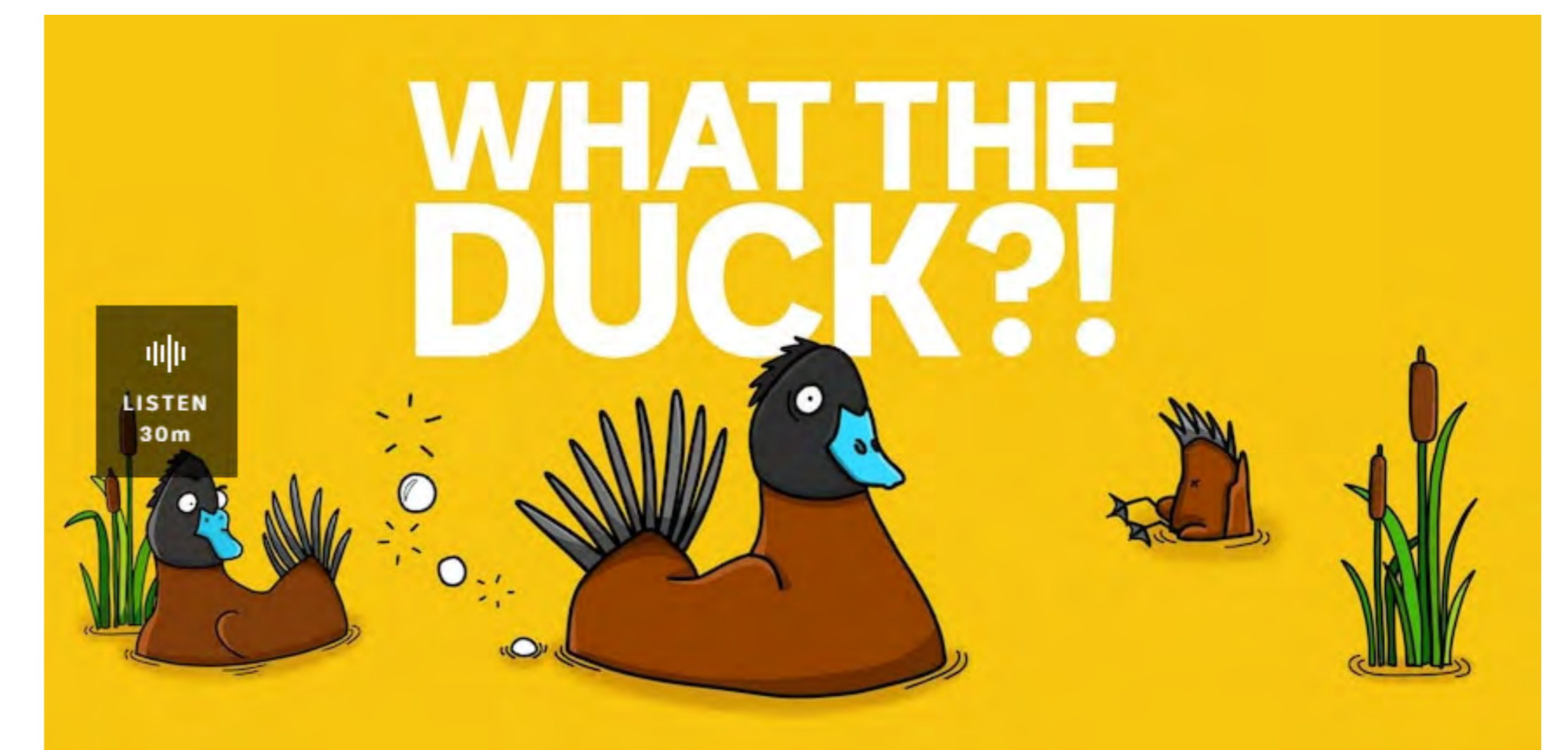
The work formed part of a Charles Sturt PhD student's thesis by Clare Flakelar, who was partially funded through the GRDC and the Graham Centre. The article is significant because it is the first time that bioactive compounds in canola were tracked through commercial processing. Processors can use this information to look at ways of increasing these healthy compounds in the finished oil to achieve a higher-value end product. The research was of particular interest to a local processor Cootamundra Oilseeds, who contributed samples for the work.

The article was then highlighted in the Editorial of the Special Issue <https://www.mdpi.com/2227-9717/11/1/150>, and according to Google Scholar it has been cited 6 times already.

The hitchhiker's guide to Australian conservation: A parasitological perspective on fauna translocations

Q Dunlop, J.A. and Watson, M.J. (2022), The hitchhiker's guide to Australian conservation: A parasitological perspective on fauna translocations. *Austral Ecology*, 47: 748–764. <https://doi.org/10.1111/aec.13171>

This paper was featured in the ABC Radio program "What the Duck" with Ann Jones <https://www.abc.net.au/radionational/programs/what-the-duck/what-the-duck!/14106892>. Listen to Dr Maggie Watson discuss the paper and present interesting anecdotes regarding parasites. The paper also won The Austral Ecology Award (awarded to an early career scientist- the co-author Judy Dunlop, who sent an exceptional review manuscript to *Austral Ecology* journal).



NEXT >

Incorporating clay as a natural and enviro-friendly partial replacement for cement to reduce carbon emissions in peat stabilisation: An experimental investigation

Incorporating clay as a natural and enviro-friendly partial replacement for cement to reduce carbon emissions in peat stabilisation: An experimental investigation

Dr Miao Li was part of a world-leading research team that has identified a way to replace carbon-intensive cement using clay as a lower-carbon replacement in construction. The research, 'Incorporating clay as a natural and enviro-friendly partial replacement for cement to reduce carbon emissions in peat stabilisation: an experimental investigation', is published in the journal Construction and Building Materials.

Wang, Z., Li, M., Shen, L., & Wang, J. (2022). Incorporating clay as a natural and enviro-friendly partial replacement for cement to reduce carbon emissions in peat stabilisation: An experimental investigation. Construction and Building Materials, 353, 128901. <https://doi.org/10.1016/j.conbuildmat.2022.128901>

[Read more...](#)



As part of a CSU Sustainability Grant [Grants - Sustainability \(csu.edu.au\)](https://www.csu.edu.au/grants-sustainability), Dr Katie Doyle and Professor Lee Baumgartner contracted a local artist, Tracie McVean [Tracie MacVean Artwork](#) who specialises in environmental artwork to paint a collection of representative alpine species that CSU researchers are working on protecting post-bushfires. These include;

- Macquarie perch
- Stocky galaxias
- Reik's crayfish
- Wedge-tailed eagle
- Pygmy possum
- Guthega's skink

The mural aims to bring awareness to some of the species we have in the alpine areas of Australia, and the threat of bushfires (among others) to their persistence. We will have a smaller plaque with a description of each species coming soon.

The location is near Building 717, across the road from the fire shed on Wells Avenue, Thurgoona campus. Feel free to wander past and have a look. The stocky galaxiid mural is also located just behind this mural on the shipping container as well.



The Rural Health and Medical Research Institute

The Rural Health and Medical Research Institute has been established with funding from the Commonwealth Government and Charles Sturt University, to lead research on regional, remote, Indigenous and international health.

This follows the establishment of the Joint Program in Medicine (JPM) at Charles Sturt University in collaboration with Western Sydney University.

Under the leadership of Professor Allen Ross, the Institute's diverse core team of researchers and scientists with backgrounds ranging from medicinal chemistry, infectious diseases and immunology to epidemiology, mental health and addictions, health service delivery and health disparity will undertake research activities with local, national and international implications and significance. The Institute will work collaboratively with researchers, health professionals, industry and policymakers to address key challenges and build rural health research capacity.





Professor Allen Ross,
Executive Director

First bovine vaccine to prevent human schistosomiasis – a cluster randomised Phase 3 clinical trial

Professor Allen Ross and colleagues have just published a ground-breaking NHMRC-funded trial that will help eliminate schistosomiasis from Asia. Schistosomiasis is a neglected tropical parasitic disease caused by blood flukes of the genus *Schistosoma*. *Schistosoma japonicum* is zoonotic in China, the Philippines, and Indonesia, with bovines acting as major reservoirs of human infection. The primary objective of the trial was to examine the impact of a combination of human mass chemotherapy, snail control through mollusciciding, and SjCTPI bovine vaccination on the rate of human infection. A 5-year phase IIIa cluster randomized control trial was conducted among 18 schistosomiasis-endemic villages comprising 18,221 residents in Northern Samar, The Philippines. Overall, bovine vaccination resulted in a statistically significant decrease in human infection across all trial follow-ups. The best outcome of the trial was when bovine vaccination was combined with snail mollusciciding. This combination resulted in one third reduction in human infection. This is the first trial to demonstrate the effectiveness of a bovine vaccine for schistosomiasis in reducing human schistosome infection.

Ross AG, Harn DA, Chy D, Inobaya M, Guevarra JR, Shollenberger L, Li Y, McManus DP, Gray DJ, Williams GM. First bovine vaccine to prevent human schistosomiasis – a cluster randomised Phase 3 clinical trial.

Int J Infect Dis. 2023 Feb 1;129:110–117. doi: 10.1016/j.ijid.2023.01.037. Epub ahead of print. PMID: 36736992.





Dr Julaine Allan

'Indian Viagra' – herbal drug Kamini contains morphine and can quickly lead to dependence

The herbal formulation Kamini has been in the news with a Brisbane drug and alcohol treatment program reporting 12 men accessing the service because they could not stop taking Kamini. A second group of 12 patients in Melbourne sought help for opioid dependency from taking the herbal medicine, which is usually illegally imported from India.

Kamini Vidrawan Ras causes drug dependence in people using it regularly, because it contains opium, among other plant and mineral ingredients. Opium is a plant product refined to make prescription medications, including morphine and codeine, and illegal drugs such as heroin.

Known as Kamini, Kamini balls and Indian Viagra, Ayurvedic medicine practitioners prescribe it for men's sexual problems including impotence, premature ejaculation and erection difficulties.

Ayurveda is a traditional Indian health system that takes a holistic approach to illness. Herbal, mineral and animal products, as well as diet, exercise and lifestyle changes, are prescribed to improve wellbeing.

It is likely many people taking Kamini are unaware it contains opium and don't know the risks of regular use. [Read more...](#)





Dr Julaine Allan

Weekly Dose: from laughing parties to whipped cream, nitrous oxide's on the rise as a recreational drug

Nang is a slang name for the small metal cylinders usually used in whipped cream siphons. They are also called nossies or whippets. The cylinders have about eight grams of nitrous oxide in them that can be inhaled for a euphoric effect.

The 2016 global drug survey found nitrous oxide is the seventh most popular drug in the world excluding alcohol, tobacco and caffeine.

Who uses nangs?

Nang use seems to be increasing in Australia. An annual national survey of people who use ecstasy found a significant increase in the number of people also reporting recent nitrous oxide use from 26% of people surveyed in 2015 to 36% in 2016. But not much is known about how widespread nang use is.

The Australian household drug survey does not report nitrous oxide use specifically and does not list it in the range of pharmaceutical drugs or inhalants. A 2013 survey of 1,360 university students in New Zealand found 12% of the sample reported using nangs in the past year. The average number of bulbs used in one session ranged from two to six. [Read more...](#)



Weekly Dose: from laughing parties to whipped cream, nitrous oxide's on the rise as a recreational drug

Published: October 9, 2017 2.30pm AEDT



Dr Hazel Dalton

Stephanie Gardiner of the Lithgow Mercury interviewed Dr Hazel Dalton for her article titled 'The long-lasting tail of flood devastation'.

The long-lasting tail of flood devastation

Road trains and tractors would usually be rattling around Moree this time of year, the northern NSW region abuzz with harvest.

Instead the town of 8000 and its farming community have spent weeks surveying the damage of its second major flood in 18 months.

Among the many disaster-weary towns across eastern Australia, the people of Moree are steeling themselves for a long recovery.

The Defence Force helped clean up after 1000 homes were damaged as the swollen Gwydir and Mehi Rivers broke their banks late last month.

Villages like Mungindi, on the Queensland border, and remote properties have been isolated for weeks, relying on emergency services to fly in essential supplies.

There are fears half the region's barley and wheat crops will be unsalvageable and farmers won't be able to sow cotton, leading to hundreds of millions of dollars in losses.

"They will go without an income for at least 12 months," Mayor Mark Johnson tells AAP.

"They're not going to spend as much in town, so there are ordinary working class families who will be impacted too. [Read more...](#)



Flood waters come and go across rural Australia but expose lingering emotional and physical scars. (Louise Kennerley/AAP PHOTOS)



Professor Sharynne McLeod

Spotlight

Sharynne McLeod, Professor of Speech and Language Acquisition at the School of Education, was named by The Australian's Research magazine as Australia's Research Field Leader in Audiology, Speech and Language Pathology and "[best in the world based on the quality, volume and impact of work](#)".

Over the past year, the research of Professor Sharynne McLeod and her team received several awards and opportunities to share the findings with professionals and families across the world. Additionally, she was awarded:

- Fellow of the Academy of the Social Sciences of Australia (see picture)
- Fellow of the American Board of Child Language and Language Disorders
- Charles Sturt University Researcher/Research Team of the Year Award (Faculty of Arts and Education)
- Charles Sturt University Research Excellence through Partnership Award
- Dr Van Tran (supervised by Prof McLeod and A/Prof Sarah Verdon) was awarded Charles Sturt University Higher Degree by Research Thesis of the Year Award.

Professor McLeod gave invited addresses to:

- American Speech-Language-Hearing Foundation Inaugural International Symposium in New Orleans, USA,

- [European Speech and Language Therapy Association \(ESLA\) Congress](#) in Salzburg, Austria (online),
- Third Iranian Conference on Developmental Language Disorder (online),
- Autumn Lecture for the journal [Advances in Communication and Swallowing](#) (online),
- Vietnamese Speech Therapy Education - Da Nang University of Medical Technology and Pharmacy, Viet Nam (online)(see picture)

Additionally, she was an invited representative on

- Federal Government's Education Disability Loading Review Expert Panel
- 73rd session of the World Health Organization Regional Committee for the Western Pacific on behalf of International Association of Communication Sciences and Disorders (IALP).

In 2022 the Multilingual Children's Speech website (<https://www.csu.edu.au/research/multilingual-speech>) was popular with 82,764 views.

Finally, she co-edited a special issue of the International Journal of Speech-Language Pathology (Q1) with Professor Julie Marshall titled *Communication, swallowing and the Sustainable Development Goals*. The special issue included an introduction advocating for [Communication for all as SDG 18](#) an invited paper by Professor Graeme Clark, who invented the cochlear implant.



Nine Aussie researchers are the planet's best

TIM DODD

Nine Australian academic researchers are currently the best in the world in their field, ahead of all their competitors in the judgment of their peers.

Data assembled for The Australian's 2023 Research magazine show that papers by each of the nine researchers (in the past five years) which were published in the top journals in their respective fields have attracted more citations than any other researchers in that field globally.

Two of the researchers – University of Queensland biologist Bhagirath Singh Chauhan and Deakin University education researcher David Boud – lead the world in two research fields.

Dr Chauhan leads in pest control and pesticides, as well as plant pathology, and Dr Boud leads in the two fields of education and higher education.



Sharynne McLeod

Altogether Australian researchers are the world leaders in 11 of the 250 (just over 4 per cent) fields of research analysed in the Research magazine.

Other world leaders include Torrens University's Seyedali Mirjalili in artificial intelligence; Charles Sturt University's Sharynne McLeod in audiology, speech and language pathology; and the Burnet Institute's Caroline Homer in pregnancy and childbirth.

The data also reveal that Australian universities are the world-leading research institutions in 19 (nearly 8 per cent) of the 250 research fields.

UNSW leads in four fields – architecture, addiction, archaeology and international law.

The University of Queensland also leads in four fields – water supply and treatment; audiology, speech and language pathology; environmental sciences; and dispersion chemistry.



Shaobin Wang

Monash University is the world leader in three fields – international business; rehabilitation therapy; and reproductive health – and the University of Melbourne is the world leader in two fields – software systems; and music and musicology.

Deakin University also leads in two fields – education; and higher education – the two areas in which Dr Boud is the world leader.

The areas in which Australian researchers and research institutions are global leaders are notable for their breadth across disciplines ranging from sciences, health sciences and information technology, through to the humanities and social sciences.

They also include professionally focused areas such as accounting and taxation (where Macquarie University is the world leader) and educational psychology and counselling (where the Australian Catholic University is the world leader in research).



Caroline Homer

TOP OF THE WORLD

Australian researchers who lead the world in their field

Bhagirath Singh Chauhan	University of Queensland	Pest Control & Pesticides
Bhagirath Singh Chauhan	University of Queensland	Plant Pathology
David Boud	Deakin University	Education
David Boud	Deakin University	Higher Education
Shaobin Wang	University of Adelaide	Chemical Kinetics & Catalysis
Tuan Ngo	University of Melbourne	Composite Materials
Seyedali Mirjalili	Torrens University Australia	Artificial Intelligence
Sharynne McLeod	Charles Sturt University	Audiology, Speech & Language Pathology
Caroline Homer	Burnet Institute	Pregnancy & Childbirth
Vedi Hadiz	University of Melbourne	Asian Studies & History
Emery Schubert	UNSW Sydney	Music & Musicology

The Australian, April 2023

Early Childhood Voices 2022 (ECV2022)

Over five days from 5 – 9 December 2022, the Charles Sturt University Early Childhood Interdisciplinary Research (ECIR) Group held a global online conference titled Early Childhood Voices. It was the second bi-annual conference to share research about innovative methods, theories and partnerships with children, parents/carers and professionals that supported social justice and Sustainable Development Goals during early childhood or within the early childhood sector.

The conference attracted 1,956 registrations from 72 countries, six keynote presentations, and 95 oral presentations from 25 countries. During the week of the conference, there were 6,431 page views from 1,358 users. In addition, there were over 3,517 YouTube views of the presentations and 243 hours of viewing. A popular initiative was the Children Draw Talking Global Online Gallery, which enabled children from across the globe to share images of themselves talking to someone. These galleries collectively were viewed more than any other presentation at ECV2022. Five yarning circles were held for synchronous conversations between conference participants on pre-determined topics. The conference was free for presenters and attendees, drawing on Charles Sturt University's motto "for the public good".

Conference presentations can still be viewed online [here](#)



[ECV2022 Co-Chairs - Welcome](#)



[ECV2022 Early Childhood Interdisciplinary Research Group and friends - Welcome](#)



[ECV2022 Executive Dean, Faculty of Arts and Education, CSU - Welcome](#)



Professor Stephen Clarke

2nd International Conference on the Philosophy of Conspiracy Theory

Professor Stephen Clarke has been invited to make a keynote presentation at the 2nd International Conference on the Philosophy of Conspiracy Theory, to be held at Vrije Universiteit Amsterdam in the Netherlands in June 2023.



Professor Manohar Pawar

23rd Biennial Conference of the International Consortium for Social Development

Professor Manohar Pawar will give the Presidential Address at the 23rd Biennial conference of the International Consortium for Social Development, at the University of Gavle, in Sweden in August 2023.

023 ECOSOC Partnership Forum, United Nations, New York.

Professor Manohar Pawar attended the 2023 ECOSOC Partnership Forum held in the Trusteeship Council Chamber in the Conference Building, United Nations Head Quarters, New York, on 31 January 2023. The forum was held to discuss the implementation of the 2030 Agenda for Sustainable Development and to provide input to the July 2023 High-Level Political Forum and the September 2023 sustainable development goals summit.



Professor Manohar Pawar at the 2023 ECOSOC Partnership Forum, United Nations Head Quarters, New York.

Keynote Address

At the 9th International Consortium for Social Development Asia Pacific Branch Conference, Professor Manohar Pawar delivered a keynote address on 'Culminating Crises: Reflections and learnings for sustainable development'. The School of Global Studies, Thammasat University, Bangkok, organised the conference from 29 November to 1 December 2022. The revised version of his keynote address is published in a peer-reviewed journal as an open-access article and may be viewed [here](#).



Teachers in Early Education workshop

Dr Leanne Gibbs and Dr Andi Salamon from the School of Education were invited to present their teaching and research expertise in leadership and infant/toddler development and pedagogy, respectively, at the Teachers in Early Education workshop, sponsored by the Academy of Social Sciences in Australia and held from 13 February to 14 February at the University of Sydney. Leanne and Andi represented Charles Sturt University at the workshop among only 30 other leaders in the field, which brought together early childhood education teachers, providers, union representatives, peak bodies, policymakers and academics.

Together they discussed how early childhood teachers in Australia might be better recognised and supported in their provisioning of quality early childhood education for children birth–5 years. A key outcome of the workshop was establishing a collaboration of sector stakeholders to progress the development of a tool that will showcase early childhood teacher quality, support practice enhancement, and help create ground to support attracting and retaining quality teachers in early childhood education.

The Future of the Professions Research Group held a successful conference in Wagga Wagga, 16–17 February 2023. More information about the conference is available at the group's website [here](#).





Dr Brian Moore

2023 Singapore Conference on Applied Psychology

Dr Brian Moore, Lecturer, Educational Psychology accepted an invitation to Chair the Singapore Conference on Applied Psychology 2023 in December, organised by East Asia Research.

This role will involve:

- Providing input/advice about the conference theme and topics,
- Leading the reviewing team of academic papers,
- Reviewing the submitted academic papers,
- Helping to disseminate/circulate the call for papers announcement to Brian's list of contacts (faculty, peers and research students),
- Giving the opening speech at the conference, and
- Giving a Keynote speech at the conference.

East Asia Research will pay for Brian's flight and accommodation expenses to attend the conference.

Brian plans to involve the Faculty of Arts and Education's Wellbeing and Mental Health Research group to participate in peer review of abstracts for the conference (and possibly book conference papers), which will be a good way to upskill group members and build their track record.





Global recognition for gender diversity and inclusion: Gender Education Association Conference hosts

Charles Sturt University has again been recognised as a leader in diversity and inclusion by winning a bid to host the 20th Gender Education Association Conference in Port Macquarie in 2024.

[The international conference](#) will be held in partnership with the [Gender and Education Association](#) (GEA) and will bring together education practitioners from all levels and backgrounds to increase diversity and inclusion in education, improving equal opportunities for all.

The event will explore local, national and global inequalities in education, breaking down the one-size-fits-all approach and analysing systemic and structural barriers that have led to disadvantage among different groups.

The Co-Chairs of the Conference, Associate Professor Cate Thomas from the Charles Sturt [School of Social Work and Arts](#) and Charles Sturt Director of External Engagement in Port Macquarie Ms Kate Wood-Foye, are proud the University has been selected from the global stage to host this event. [Read more...](#)



Dr Bernadette Moorhead

In light of her PhD research on professional identity and newly qualified social work, Dr Bernadette Moorhead was an invited guest for the UK podcast, social work sorted.



To further her research engagement, Bernadette is launching her own social work podcast on February 22nd called the Social Work Café, where she interviews guests on their social work research, practice, education, etc., with the intention of promoting professional identity. Here is a link to her website: www.thesocialworkcafe.com

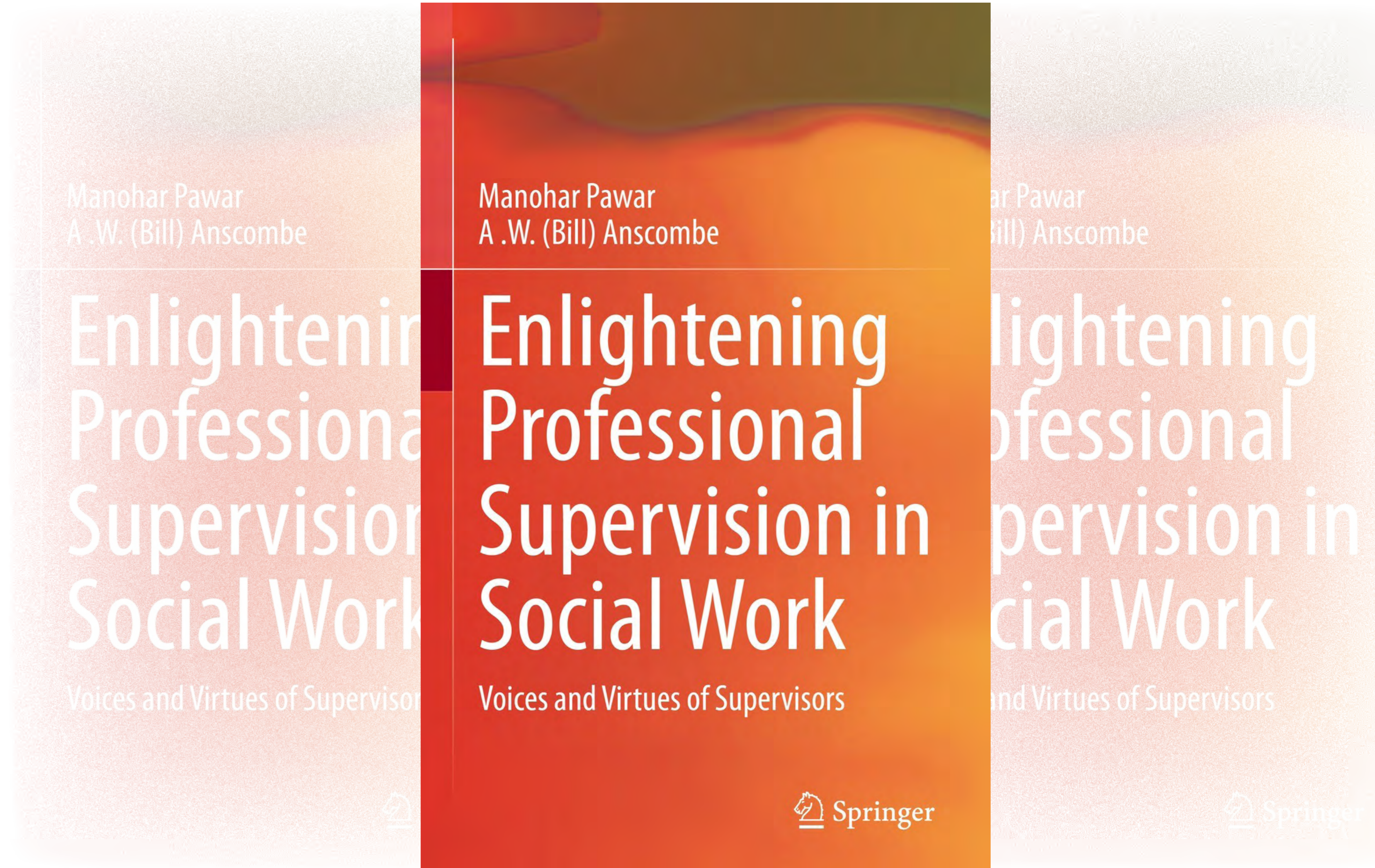




Dr Prabhakar Kore unveiling Professor Manohar Pawar's books.

Unveiling of Prof. Manohar Pawar's books by Dr. Prabhakar Kore, (former MP), Chairman, KLE Society and Chancellor, KLE Technological University, Hubballi, India.

In a community programme organised to felicitate Honourable Dr Prabhakar Kore on 6th February 2023 in Melbourne, several books authored and edited by Professor Manohar Pawar and the *International Journal of Community and Social Development* were unveiled by Dr Prabhakar Kore.





Professor Manohar Pawar

Springer Series in Social Development

Springer Nature has invited Professor Manohar Pawar to become a series Editor of a new book series, the *Springer Series in Social Development* (SSD)*. The series aims to develop and disseminate cutting-edge theoretical and practical knowledge and skills of social development written by leading social development thinkers and practitioners from multidisciplinary fields with historical, contemporary, and futuristic perspectives. Its analysis focuses on multiple dimensions and levels of social development to influence emerging social and community development scholars and organisers, social work/welfare/human services educators and practitioners, and relevant policies, programs and action locally and globally, not only now but also into the future.

*The SSD follows Springer Nature's Code of Conduct, including peer review and conflict of interest processes.

International Journal of Community and Social Development

Charles Sturt University's School of Social Work and Arts is a home for the *International Journal of Community and Social Development*, which was conceptualised and established by its founding Editor-in-Chief, Professor Manohar Pawar, and it is published by SAGE. The journal has entered its fifth volume with a Scopus citation score of 2.5.





Associate Professor
Derya Iner

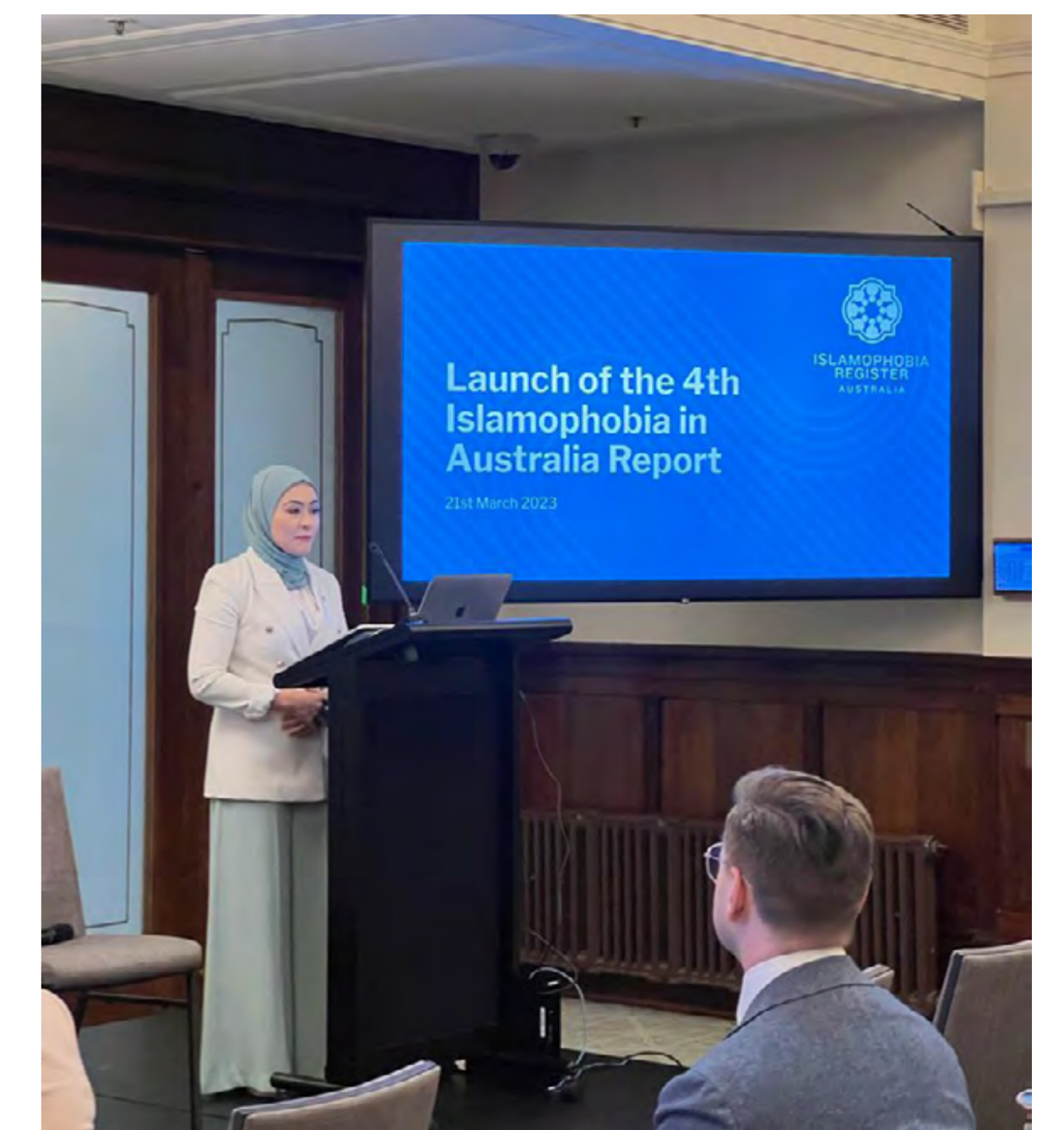
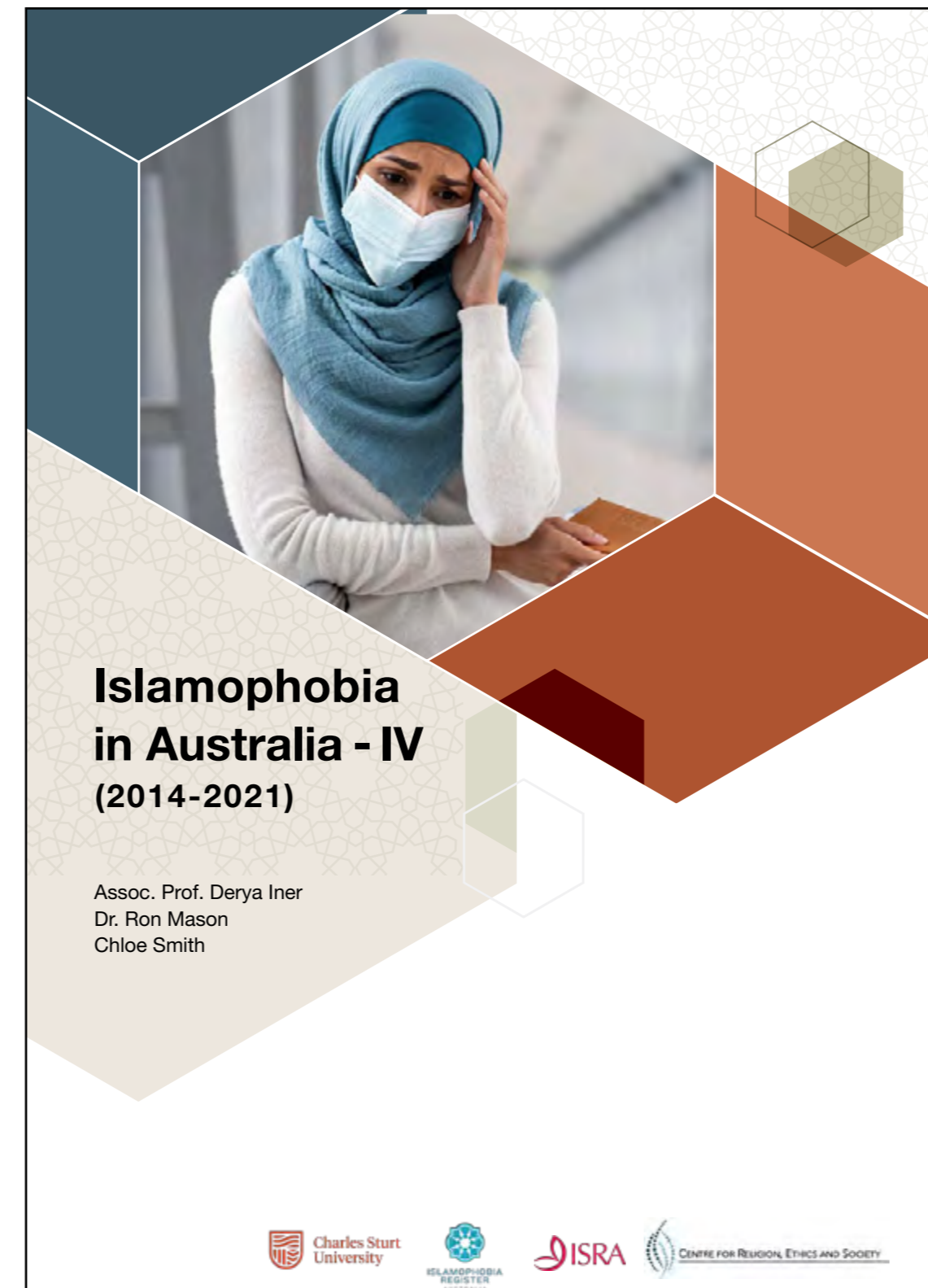
The Islamophobia Register Australia (the ‘Register’), in partnership with Charles Sturt University and ISRA published the fourth Islamophobia Report on 21st March 2023 in Canberra on the UN declared International Day to Elimination Racial Discrimination. It also marks 4 years on from the Christchurch Terror Attack.

Associate Professor Derya Iner, who is also the Register’s head of Research and deputy chair, showcased the key findings of the 4th Islamophobia in Australia report.

The launch hosted an impressive line-up of speakers and panelists including Minister for Immigration and Multicultural Affairs Andrew Giles MP, Minister for Youth and Early Childhood Education Dr. Anne Aly, Senator Mehreen Faruqi, Senator Fatima Payman, Kylea Tink for North Sydney, Sally Sitou and Associate Professor Mehmet Ozalp.

The Register is the leading organisation tracking and tackling incidents of Islamophobia within Australia. The event in Canberra aimed to shed light on the nature and extent of Islamophobic incidents that are occurring in Australia and touch upon the kinds of measures needed to help combat Islamophobia in Australia.

View full report [here](#).





Dr Rachael Jefferson-Buchanan

Dr Rachael Jefferson-Buchanan, Lecturer in Creative Arts, has secured a wellbeing grant of \$45,000 through a longstanding partnership with an industry provider that was developed via LinkedIn. Rachael will write a wellbeing module involving two industry partners: WellBe and AUSTSWIM. WellBe requires a two-phase research project.

Phase 1 is to develop a scoping review for wellbeing, on which the overview module will be based. Rachael has drawn together a Charles Sturt University team for this, including Kelly Spuur, Clare Singh (the School of Dentistry and Medical Sciences), Donovan Jones (the Faculty of Science and Health), Lorraine Rose (Senior Client Services Librarian), and Rahul Ganguly, Trish Briggs (the School of Education).

Phase 2 will involve the development of four embodied wellbeing modules, and the AUSTSWIM participants (3000+) will undertake these as professional development. This will develop into a pre-during-post professional development survey to evaluate the impact of the wellbeing-focused training. We will explore future related co-authored publications to share our findings.



Future of the Professions Research Group Members Professor Philip Hider, Associate Professor Hamid R Jamal, Dr Jane Garner, and Dr Simon Wakeling, together with several partners and partner organisations, were awarded a \$206,431 ARC Linkage grant in the most recent round. Their application was developed with Future of the Professions Research Group funding for research assistance.



Professor Seumas Miller and Associate Professor Marcus Smith have been successful as Chief Investigators on an NHMRC Medical Research Future Fund grant entitled *Addressing emerging ethical, legal and social issues in governance of clinical and genomic datasets*.

The total grant funding is \$5M and the Charles Sturt University component of this is \$185,000. The grant runs for five years from 2023-2027.

The grant is in collaboration with the University of Sydney, University of Melbourne and several other institutions around Australia and includes many of Australia's leading bioethicists and health law experts.

Seamus and Marcus will undertake research on the ethical, legal and social implications of genomic data, an important emerging security issue. It is a great opportunity to apply their expertise in technology law and ethics, collaborate with other leading researchers and contribute to improved regulation in Australia.



Associate Professor Sandra Savocchia and Dr Regina Billones-Baijens are co-investigators on a recently awarded grant in partnership with Wine Australia and the South Australian Research and Development Institute. Over the next five years, they will work with researchers and industry across Australia to provide improved diagnostic capabilities and solutions for managing grapevine trunk disease pathogens in Australian vineyards.



[NEXT >](#)

The 2022 Beth Southwell Research Award for Outstanding Educational Thesis, NSW Institute for Educational Research and the Charles Sturt University Higher Degree by Research University Medal



Dr Belinda Friezer

The 2022 Beth Southwell Research Award for Outstanding Educational Thesis, NSW Institute for Educational Research and the Charles Sturt University Higher Degree by Research University Medal

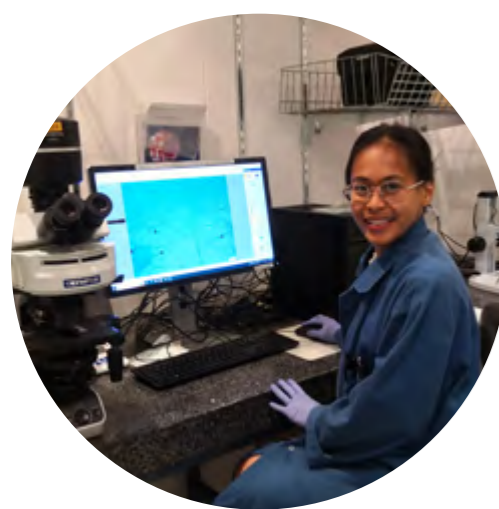
School of Education PhD graduate Dr Belinda Friezer was awarded the 2022 Beth Southwell Research Award for Outstanding Educational Thesis, NSW Institute for Educational Research and the Charles Sturt University Higher Degree by Research University Medal. Belinda's thesis was titled, *How do infants interact in groups in long day care across the first two years of life?* She was supervised by Professor Linda Harrison, Dr Sheena Elwick and Dr Robyn Dolby.



2022 Australian Society of Viticulture and Oenology Paper of the Year award

Associate Professor Sandra Savocchia and Dr Regina Billones-Baaijens are co-authors on a manuscript that was awarded the 2022 Australian Society of Viticulture and Oenology Paper of the Year award. Grapevine trunk diseases are a serious threat to the sustainability of the wine industry and this research has provided improved flexibility for viticulturists to manage these diseases.

Ayres MR, Billones-Baaijens R, Savocchia S, Scott ES, Sosnowski MR (2022). Critical timing of fungicide applications for pruning wound protection to control grapevine trunk diseases. Australian Journal of Grape and Wine Research 28, 70-74.



Dyanah Amorio

A Wine Australia Research Scholarship

PhD student Dyanah Amorio was recently awarded a Wine Australia Research Scholarship. Her research is aiming to understand the interactions between different grapevine trunk disease pathogens which may assist in the development of improved management strategies for these diseases.





Dr Ausma Bernot

Dr Ausma Bernot, Postdoctoral Researcher in Health Security and Intelligence, Australian Graduate School of Policing and Security has published a Conversation piece titled *There are 60,000 Chinese-made surveillance systems in Australia – how concerned should we be?* [Read more...](#)



There are 60,000 Chinese-made surveillance systems in Australia – how concerned should we be?

Published: February 13, 2023 2.54pm AEDT

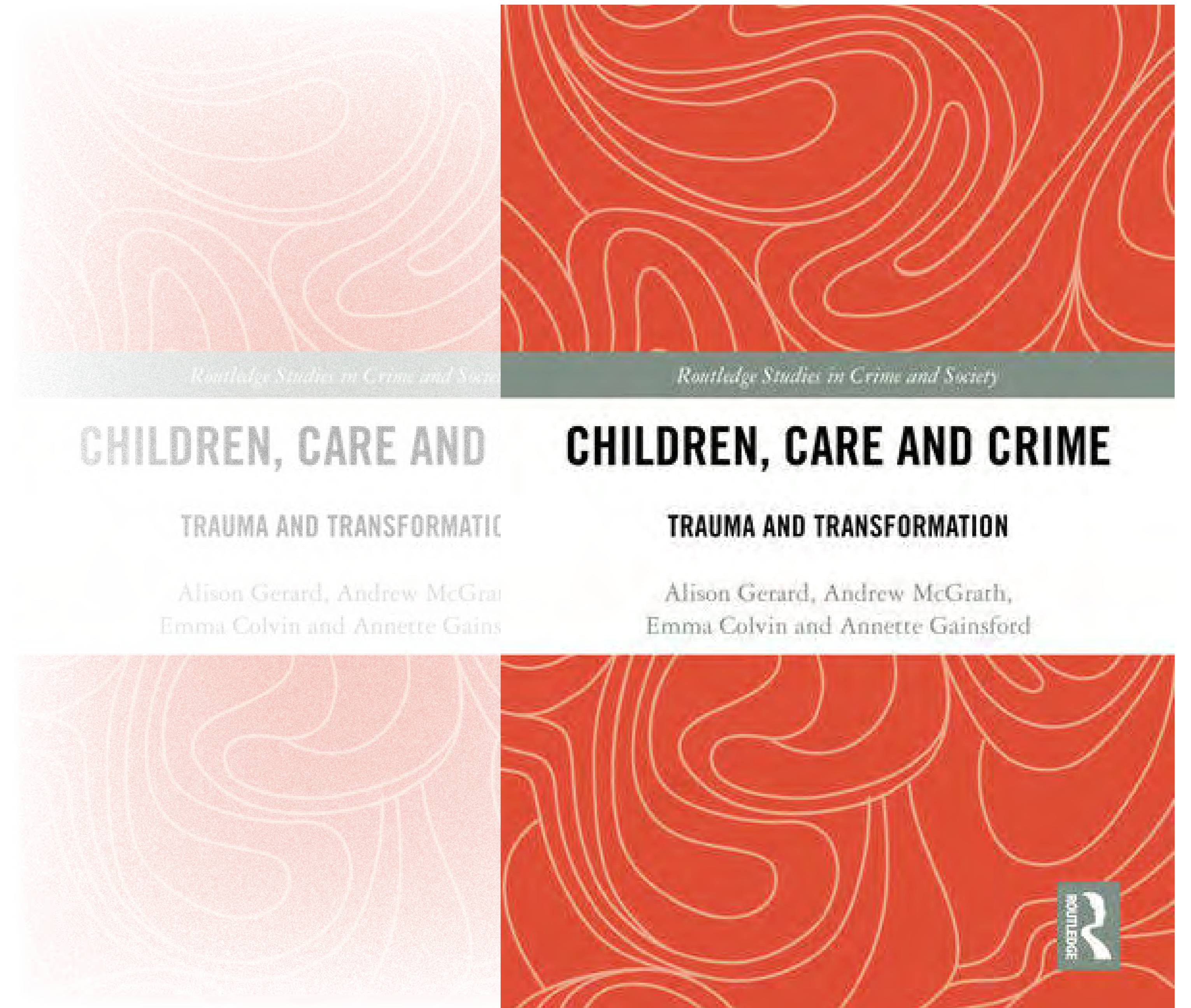


Associate Professor Andrew McGrath



Dr Emma Colvin

Associate Professor Andrew McGrath and Dr Emma Colvin from the Centre for Law and Justice and School of Psychology are part of an interdisciplinary team that has recently published *Children, Care and Crime: Trauma and Transformation* (Routledge, 2023). The book stems from a project funded by the Australian Institute of Criminology that examined the criminalisation of children in out of home care. The book outlines the impact of trauma and responses to trauma, including inter-generational trauma caused by policies of colonisation and criminalisation. It then follows a child's journey through the continuum of care to the criminal justice system, examining data at each stage including the residential care environment, interactions with police, the provision of legal services and experiences at the Children's Court. Drawing together an analysis of the gendered and racialised treatment of women and girls with care experience in the criminal justice system, the book particularly focuses on legacies of forced removal and apprenticeship which targeted Aboriginal and Torres Strait Islander women and girls. Through analysing what practices from England and Wales might offer the NSW context, the findings are enriched by further reflection on how decriminalisation pathways might be imagined. The book is co-authored with Adjunct Professor Alison Gerard, from the University of Canberra and former Charles Sturt academic Associate Professor Annette Gainsford, University of Technology, Sydney. [Read more...](#)





Dr Ruth Pape

Dr Ruth Pape has had a recent publication accepted in the Q1 journal *Rural and Remote Health* *Factors influencing University of Papua New Guinea Medical Imaging Science students' considering rural radiography careers* in collaboration with Charles Sturt academics. The abstract can be accessed at: https://www.rrh.org.au/journal/early_abstract/7279

This paper will support one of her PhD studies involving a focus group discussion.



Dr Kate Freire



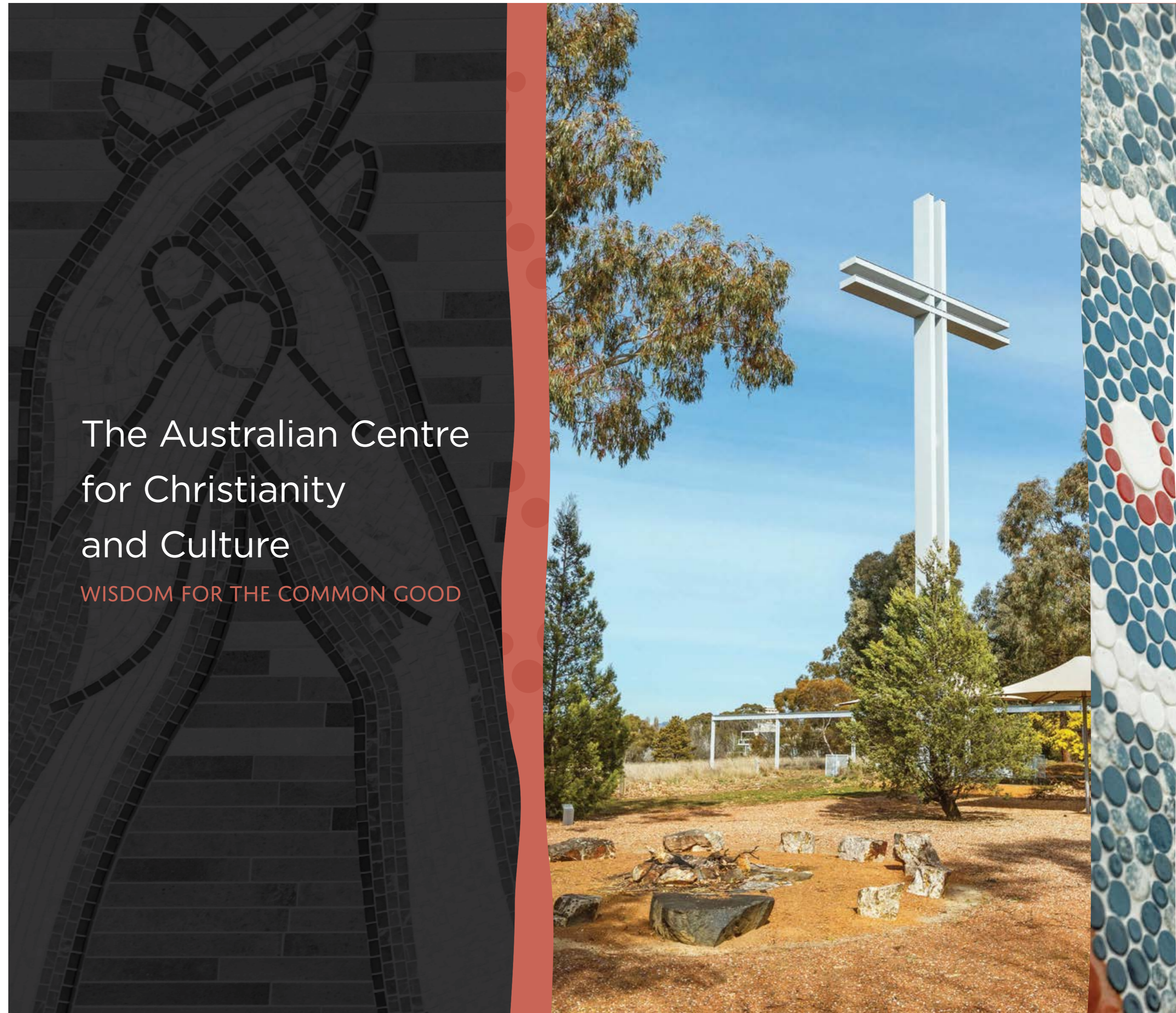
Dr Jayne Lawrence

Dr Kate Freire (Three Rivers Department of Rural Health) and Dr Jayne Lawrence (Wiradjuri, School of Nursing, Paramedicine and Healthcare Sciences) recently published a paper which evaluated a diabetes group programme run by an Aboriginal Community Controlled Health Service. The programme pivoted to continue online during a COVID-19 lockdown in 2021. The paper provides insights into the importance of group programmes for First Nations peoples with diabetes. In addition, the accidental hybrid approach supported transition of healthy activities into participants home with possible cross-generational benefits also identified. *In a group, "we're not just a number": what we learnt from an accidental hybrid health and well-being group programme for First Nations Australians with diabetes* is published in the Open Access Journal *AlterNative* [Read more](#)

The Australian Centre for Christianity and Culture

The Australian Centre for Christianity and Culture is a ministry of the Christian churches, guided by the Holy Spirit, walking humbly in the way of Jesus, serving all of God's people. The Centre aspires to fulfil its trinitarian vision through an ecumenical invitation, an indigenous heart and an interfaith outreach. Our mission includes liturgical celebrations, teaching and public lectures, promotion of research in Public Theology, promotion of Australian religious and theological expression in the arts, promotion of inter-faith and ecumenical dialogues and provision of appropriate space and programs for spiritual reflection. The Centre has an inclusive national character, expressing and reflecting Christian spirituality and culture, and is committed to atonement and reconciliation with the indigenous people of Australia.

<http://www.acc-c.org.au>





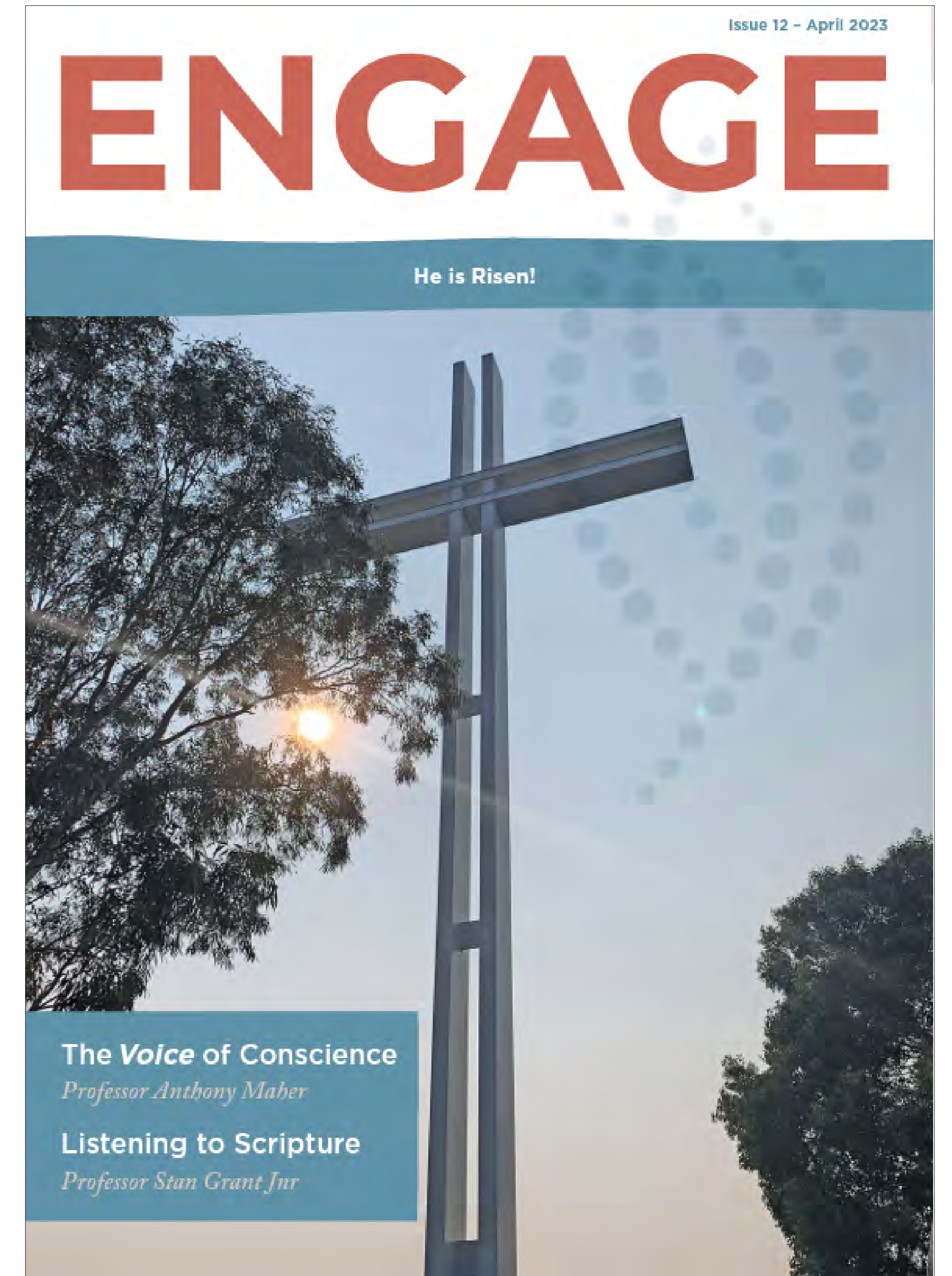
Professor Wayne Hudson

Fellow of the Australian Academy of the Humanities

Professor Wayne Hudson was elected to the Australian Academy of the Humanities for his work on connections between religion, utopianism and modernity. With outstanding contributions to Australian historiography, his work ranges from the exploration of republicanism and citizenship in Australia, the role of Deism in the Enlightenment, to the interpretation of the utopian philosophy. Election to the Australian Academy of Humanities is the highest honour for achievement in and contribution to the humanities in Australia.

“The calibre of these new Fellows is a testament to the continuing strength of the humanities in Australia today, despite the many difficulties experienced by the sector over the past few years”, said Academy President Emeritus Professor Lesley Head FASSA FAHA.”

Download the latest and previous editions of Engage, a quarterly publication from the ACC&C [here](#).



Commonwealth Day Multi-Faith Celebration 2023

The Australian Centre for Christianity and Culture (ACC&C) hosted the Canberra Commonwealth Day Multi-Faith celebration this week. It was a wonderful display of faith, inclusivity, culture, colour, and festivity, representing the different countries of the Commonwealth and world faiths.

Even before the service started, the packed Chapel was a vibrant mix of Commonwealth flags, cultural costumes, and beaming smiles, all accompanied by joyous singing from the Papuan New Guinea Peroveta Singers of Canberra and the Fijian Christian Inter-denominational Choir.

The start of the service was marked by the Great Bell being rung in recognition of each of the 56 Member States of the Commonwealth, followed by the Fijian Lali Drum to welcome everyone.

A welcome address was given by Professor Anthony Maher, Executive Director for the Australian Centre for Christianity and Culture, on the theme of the week, 'Delivering a Common Future'.

The Acknowledgement of Country was given by Bevan Smith, whose story-telling abilities along with his didgeridoo-playing helped everyone imagine the animals belonging to each sound.

This was then followed by the Australian Hymn, sung by the Canberra Men's Choir.

[Read more...](#)



God, Justice & Interfaith Dialogues

[May 17 - Faith, Truth, and Reconciliation: Is it possible to speak authentically of love and justice in an unjust world?](#)

[July 12 - Faith and the Democratic: Should faith-based traditions engage in politics?](#)

[September 13 - God in a post-secular world: Can we speak meaningfully about God today?](#)

[November 15 - Religion and the Good Life: Is religion a force for good in the world and does religion help people lead a good life?](#)

[\(Wed. Evenings 6 - 7.30 pm, in the Australian Centre for Christianity and Culture chapel\)](#)

ACC&C is presenting four public Interfaith Dialogues hosted by Professors Anthony Maher and Stan Grant. The discussions will include a panel of six faith leaders from different religions. Each panelist will briefly engage with introductory remarks addressing the above questions, followed by a Q & A hosted by Stan Grant between the panel and the audience.

The 2021 Census by the Australian Bureau of Statistics showed an increase in religious diversity and an increase in 'no religion'. Also, for the first time, those affiliated with Christianity represent less than half of the population.

In this changing religious landscape of Australia, some question whether religion has anything of value to contribute to public debate. These Interfaith Dialogues intend to show how different faith traditions can constructively speak to the important issues of today.

This is a unique opportunity for Canberra to witness practical interfaith dialogue on essential issues of the day, learn about faith traditions other than their own, and discover what different religions think on important issues. With Stan Grant hosting the Q&A, it is sure to be a lively and thought-provoking event.

The Executive Director of the ACC&C, Professor Anthony Maher, said, "Interfaith Dialogue has been an important aspect of the work at the ACC&C for many decades. In partnership with Charles Sturt University and Yindyamarra, it is a pleasure to host Stan Grant and the other faith leaders at the Centre as we aspire to co-create 'Wisdom for the Common Good.'



Embodying the Transcendent: On the Way to a Global Ethic

Date: 19 April 2023

Time: 12.30 pm–1.30 pm,

Venue: The Chambers Pavilion, Australian Centre for Christianity and Culture , Charles Sturt University, 15 Blackall St, Barton, ACT 2600

The Australian Centre for Christianity and Culture (ACC&C) has planned a series of public lectures by scholars associated with the Centre, starting with a paper by Dr Peter Hooton, Adjunct Research Fellow in Public Theology at ACC&C and former DFAT Assistant Secretary for Arms Control and Counter-Proliferation. Peter will speak on ‘Embodying the Transcendent: On the Way to a Global Ethic’.

ACC&C has a significant number of scholars affiliated with the Centre, representing a depth and breadth of theological research. These scholars will be sharing their knowledge and research with fellow academics and the general public for the first time. Public lectures planned to cover a diverse range of topics, including Nietzsche, the Gospel of John, church discipline, political providentialism, demonology and post-foundational ecclesiology. One public lecture of particular interest will be ‘Australian history and the future of the Church’, given by Professor Wayne Hudson, who was recently elected to the Australian Academy of the Humanities.

There are currently ten public lectures planned, with one every month until November and more planned for 2024. Public lectures will occur from 12.30 pm–1.30 pm, making it suitable for those who prefer to go out during the day or people looking for something to do in their lunch break. The public lectures will be academic but will also appeal to the general public, particularly clergy, people interested in theology or religion, or those looking for intellectual stimulation and debate.

Public lectures currently planned for 2023 – 2024 include:

2023

18 April–Dr Peter Hooton, ‘Embodying the Transcendent: On the Way to a Global Ethic’

23 May–Dr John Painter, ‘No one has ever seen God: Revisiting John’s Prologue’.

20 June–Prof Wayne Hudson, ‘Australian history and the future of the church’

18 July–Dr Nikolai David Blaskow, ‘Nietzsche the religious man: artist, philosopher, saint.’

22 Aug–Dr Peter Grundy, ‘Wittgensteinian Grammar and Theological Limits’

19 Sept–Dr Amy Erickson, ‘Church Discipline’

24 Oct–Dr Jonathan Cole, ‘The necessity and danger of political providentialism’

21 Nov–Dr Scott Cowdell (date and title to be confirmed)

2024

20 Feb–Dr Bernard Doherty, ‘*Disputatio Diaboli*: The Removal, Survival, and Revival of Demonology in Post-Conciliar Roman Catholic Theology’

19 Mar–Prof Anthony Maher, ‘Post-foundational ecclesiology and re-founding the Church’



Nick Pagett

AgriPark

We are pleased to announce the appointment of Nick Pagett as Executive Director of the AgriPark.

Nick was Strategic Advisor, Business Development in the Office of Engagement and Enterprise and commenced with the AgriPark on 14 April.

Prior to joining Charles Sturt, Nick was Director, Business Development & Global for CSIRO where he was looking after external engagement and innovation programs, including delivery of the ON program. Nick has more than 30 years' experience working in senior executive roles in a range of industries, including research and development, food supply chains, and agriculture. His experience spans both commercial and scientific research environments, where he has been involved in activities including commercialisation, R&D service delivery, and global business development. He has particular expertise in science parks and precinct ventures. Nick was already developing the Gulbali-AgriPark Operational Plan as he transitioned from his current role.



DIGITAL AGRIFOOD SUMMIT

11-12 October 2023
Wagga Wagga



AGRPARK



Charles Sturt
University

NEXT > Exhibition Space at the AgriFutures Australia evokeAG conference

Digital Agrifood Summit returns to Wagga Wagga

The Digital Agrifood Summit, a partnership between Charles Sturt University, Food Agility CRC and Charles Sturt's Agrisciences Research and Business Park (AgriPark), will return to Wagga Wagga, NSW, on Wednesday, 11 and Thursday 12 October 2023, bringing together experts in everything digital, data and agrifood.

This year's event is themed Paddock to Profit and will examine how Australia's agrifood industry can apply data-driven solutions to increase value and drive sustainability across supply chains.

The event will feature leading Australian and international speakers, presentations of the latest research and innovation projects, an exhibition hall of commercially available technology, a tour of the Global Digital Farm, and a Gala Dinner.

People can [register their interest](#) in attending via the Global Digital Farm website, and companies interested in [sponsoring or exhibiting](#) are encouraged to get in touch.

DIGITAL
AGRIFOOD
SUMMIT



On 21 and 22 February, the AgriPark hosted an Exhibition Space at the AgriFutures Australia [evokeAG](#) conference, one of the largest agtech gatherings in Australia. This year the event was held at the Adelaide Convention Centre and featured domestic and international agtech organisations plus a number of startups pitching their businesses to potential investors and collaborators.

Our space included Andrew Hagan's demonstrations on using eXtended Reality in agriculture and Jon Medway promoting agtech research on the Global Digital Farm. Professor Michael Friend, Sam Beresford, Kelli Edwards and Jodi Slocombe also attended the event on behalf of Charles Sturt University and AgriPark.

We had a paperless display and used two large presentation screens to showcase everything ag at Charles Sturt. On these, we presented the Gulbali Institute, Red Meat Innovation Centre, Innovation Hub, Winery, Biosecurity Training Centre, Charles Sturt Sustainability, our amazing research facilities, new post-grad ag and environmental courses, student engagement with industry, scholarships and philanthropic opportunities, and our [Digital Agrifood Summit](#) which is being held at our Wagga campus on 11-12 October 2023. Thanks to everyone who provided content, and a special thank you to Cass Dray, Grace Gribble and James Siegert from the marketing team for preparing our digital collateral.

We had a lot of people visit our exhibition space over the two days and some promising conversations with industry around future opportunities that we are currently following up.

If you would like more information about our evokeAG experience, don't hesitate to get in touch with Kelli Edwards, AgriPark Manager.

Photo: Professor Michael Friend speaks with high school ag students about careers in agriculture and studying at Charles Sturt University.



Professor Wayne Hudson



Professor Allen Ross



Professor Lee Baumgartner



Professor Sharynne McLeod



Professor Ganna Pogrebna



In conjunction with the Royal Society NSW – Western Branch, the Provocations Public Lecture series is to celebrate Charles Sturt research. This will involve a 30 minute address followed by a facilitated 30 minute Q and A, reception and drinks. All the events will also be streamed live. Professor Sharynne McLeod delivered the opening lecture in this series on 20 April 2023 at Bathurst with the title "[Children should be seen AND heard: The importance of communication so children can thrive.](#)" This will now be followed by events in Canberra, Bathurst, Canberra, Orange and Albury, with presentations by Professors Ganna Pogrebna, Wayne Hudson, Allen Ross and Lee Baumgartner.

Provocations Blog

Provocations is a series of blogs written by prominent thinkers that seek to address the grand challenges confronting regional Australia and the world. How can we mitigate climate change and build climate proof, safe and sustainable communities? Can First Nations ways of knowing, being and doing guide sustainable development? How can we reinforce Australia's supply chains and sovereign manufacturing capability in a post-Covid world? Is it possible to achieve productive and circular agriculture? How can we reduce income inequality between urban and regional Australia and build more inclusive communities? Does liberal democracy need to be redefined in a post-Covid world? How can we build a knowledgeable, inclusive and resilient citizenry prepared for the challenges of the future? Does Australia's relationship with China require a radical rethink? Is there a role for faith in contemporary democratic thought?

Provocations will challenge orthodoxy through new thinking but will also revive policy ideas and political thought from the past for one more encore.

Provocations will be launched in May 2023.



**Charles Sturt
University**

We have new resources available to help you understand our organisational goals and create personal EDRS goals that align with our vision of becoming Australia's leading regional university by 2030.

To learn more, visit our [University Strategy website](#) and check out the new [Goal Library](#), which provides examples of actions you can take to contribute to our shared vision. As a valued member of our staff, your participation in our 2030 Strategy is critical to our success. We encourage you to speak with your leader about our [Strategic Plan 2023-25](#), familiarise yourself with our 3-Year Roadmap, and actively engage in our strategy planning process to ensure we all work together to achieve our goals every day.

Research outputs

Listing of Research outputs

2023

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