What's New in the Australian Data Science Network

Welcome to the **August 2021 update** of the **Australian Data Science Network (ADSN)**, a partnership of 23 data science research centres and organisations across the nation. The aim of the ADSN is to connect the concentrations of expertise in data science across Australia, in order to improve communication, encourage collaboration, expand opportunities, and promote our individual and collective capabilities. To make sure you don't miss an update, **subscribe to the ADSN Newsletter** to get the latest news, events and opportunities delivered straight to your inbox.

Welcome to our newest partner

🆕 The University of Southern Queensland's **Advanced Data Analytics Research Group**

Get to know other partners

Last month we held our third ADSN Centre Spotlight, where we heard from the ARC Centre for Data Analytics for Resources and Environments (DARE) led by the University of Sydney, Statistical Society of Australia, University of South Australia's Data Analytics Group, and RMIT's Centre for Information Discovery and Data Analytics (CIDDA). If you missed the July Centre Spotlight or would like to get to know some of our ADSN partners better, the presentations are available on YouTube. **Watch the recordings**

Upcoming events

⏰ **Call for Papers: Australasian Data Mining Conference (AusDM'21)** | **Full papers due 24 August | Queensland University of Technology**
AusDM'21 is a leading national conference that will facilitate the cross-disciplinary exchange of ideas, experience and potential research directions in machine learning, data science and artificial intelligence. We are calling for papers, both research and applications, and from both academia and industry, for publication and presentation at the conference. All papers will go through double-blind, peer-review by a panel of international experts. **Submit a paper now**

📅 **Data Science Under the Hood: Data Fusion and Knowledge Discovery using Factorization methods** | **26 August, 2pm-3pm | QUT Centre for Data Science**
In this Data Science Under the Hood webinar, Dr Thiru Balasubramaniam explores Data Fusion & Knowledge Discovery using Factorization methods. Data fusion is a technique used to fuse multiple data for collective knowledge discovery. This talk will highlight how knowledge can be discovered and fused from multiple data using factorization methods such as matrix and tensor factorization. **Register now**

📅 **ACEMS Virtual Public Lecture: The Origami of Data Science** | **1 September, 12pm-1pm | ACEMS**
In this public lecture, Distinguished Professor Kerrie Mengersen will discuss our attempts at the origami of data science. These include folding new methods and computational approaches into products such as an online atlas of cancer, a virtual Great Barrier Reef, an ethical social discourse platform, and a personalised learning program. **Register now**

📅 **AI for Pandemics (AI4PAN) Group Virtual Seminar: Fighting COVID-19 at Cornell University** | **8 September, 10am | The University of Queensland**

Universities around the world faced a challenging decision during the summer of 2020: whether to reopen for in-person instruction despite the pandemic and how to protect campus populations if they did. Associate Professor Peter Frazier will share why operations research and data science were a fundamental part of these decisions. **Visit our webpage for full details**

📅 **The Future of Artificial Intelligence: Academia's Role in Getting it Right by Prof. Huw Price** | **9 September, 4pm-5pm | Monash Data Futures Institute**

As academics contemplate the future of artificial intelligence from their own vantage point, what they face is an engineering challenge. As he explores the future of AI via his role as an academic, distinguished philosopher Professor Huw Price will share his thoughts on 'How can we build the most effective academic collaborations, to do our part in 'getting AI right'?' **Register now**

📅 **ADSN Focused Workshop: Synthetic Data** | **10 September, 1pm-3pm | ADSN & QUT Centre for Data Science**

We've had recent interest from industry about simulating realistic data from complex systems. There are many situations where sensitivities of real data make synthetic data safer to handle. We (QUT) would like to convene a workshop to engage researchers with capabilities and interests in synthetic data and open up possibilities for further connection and collaboration. An calendar invitation has been sent out to all ADSN members this morning. Please forward the invitation onto any interested colleagues, or **please contact us**.

Career opportunities

🔑 **Senior Research Fellow or Research Fellow** | **Applications close 29 August | The University of Sydney**

We are seeking a Research Fellow or Senior Research Fellow who will drive and lead impactful research that answers important questions on cancer risk, screening, diagnosis and models of care. You will apply advanced, cutting-edge research methods to generate evidence from large-scale datasets on lifestyle, medical history, and/or genetic information, and/or advance mathematical models that interface with the Daffodil Centre's Policy1 microsimulation platform. **Apply now**

🔑 **Research Data Analyst** | **Applications close 29 August | Queensland University of Technology**

Candidates are encouraged to apply for the Research Data Analyst position at the Digital Observatory if they have skills and experience in data analytics, communication and engagement, and are interested in working collaboratively with researchers and developing some complementary software development skills as part of a small collaborative team. **Apply now**

🔑 **Research Fellow** | **Applications close 7 September | Monash University**

Join an interdisciplinary team from Monash University's Faculty of IT, Faculty of Law, the Faculty of Arts Criminology division, and the Monash Data Futures Institute as they work on Deepfake Detection and Prevention using machine learning, deep learning and other related artificial intelligence methods. **Apply now**

Scholarship opportunities

📌 **PhD Scholarships in Data Science (Australian Bureau of Statistics & QUT Centre for Data Science)** | **Applications now open | QUT Centre for Data Science**

The Australian Bureau of Statistics and QUT Centre for Data Science are partners in a world-leading program of research in data science in the government statistics domain and in the priority areas of agriculture and geospatial statistics. Two PhD scholarships are available. **Apply now**

📌 **Layer-specific structure and function using ultra-high field functional and structural MR imaging and advanced data analysis** | Applications close 23 August | The University of Queensland
The key objectives of this studentship are to develop ultra-high field functional and structural MR imaging and advanced data analysis methods to measure layer-specific structure and function at fractions of a millimetre and derive computational models to characterize structure-function relationships. **Apply now**

📌 **Defence-based PhD Scholarship** | Applications close 27 August | UNSW Data Science Hub
The UNSW Data Science Hub, UNSW School of Mathematics and Statistics and the NSW Defence Innovation Network (DIN) have partnered with Naval Group, a world leader in maritime defence, to offer a fully funded PhD scholarship and top-up scholarship to grow local Australian skills and support Science, Technology, Engineering and Maths (STEM) career pathways in Defence. This project aims to develop and validate fast, accurate mathematical methods for calculating the surface and interior wake "fingerprint" of submerged moving vessels. **Learn more**

📌 **PhD Scholarships in AI and Data Science for Social Good** | Applications close 31 August | Monash Data Futures Institute
The Monash Data Futures Institute is introducing one of the most generous and prestigious PhD scholarships of any university in Australia. This interdisciplinary scholarship aims to support a community of future thought leaders addressing some of the most pressing global challenges through the advancement of AI and data science. Graduate research students receiving this PhD Scholarship learn from leading academics across the Humanities, Science, Technology and Medicine fields, and work on research topics that relate to disciplines in two or more Monash University faculties. **Apply now**

📌 **Data Science to Support Sustainability in Viticulture (Masters)** | Applications now open | QUT Centre for Data Science
This data science project aims to build on an environmental dataset from Sustainable Winegrowing Australia (SWA) and initial quantitative analysis conducted as part of a previous Food Agility project, Valuing the Environment in Viticulture, to understand the relationships between self-reported management actions, production and resource use metrics, profitability and long-term resilience. **Apply now**

News highlights

📰 **Shifting focus on Australia's COVID-19 vaccination rollout** | Published 3 August | QUT Centre for Data Science
Australia's vaccine rollout has been the topic of much criticism. Having one of the lowest coverages among high socio-economic countries, many have been asking when the marathon will end – although it's "not a race". **Read more**

📰 **TikTok captures your face** | Published 26 July | The University of Melbourne
With more than one billion users since 2017, TikTok is one of the fastest-growing social networks. Its audience base is rapidly expanding beyond Gen Z's early adopters, now including boomers and retirees. But its latest decision to capture unique digital copies of your face and voice is a cybersecurity threat to your identity and privacy. **Read more**

📰 **[Swinburne researcher asks why more women don't study computer science](#)** **| Published 20 July | Swinburne University**

In 2020, about 25 per cent of Google, Apple, Facebook, Amazon, and Microsoft's employees were female. Senior lecturer at Swinburne's School of Science, Computing and Engineering Technologies, Dr Andreea Molnar wants to pinpoint the factors leading to this lack of diversity. **[Read more](#)**

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