



## What's New in the Australian Data Science Network

Welcome to the **July 2021 update** of the [Australian Data Science Network \(ADSN\)](#), a partnership of 22 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.

### Get to know other partners

Last month we held our second ADSN Centre Spotlight, where we heard from the Australian Research Council (ARC) Centre of Excellence for Mathematical and Statistical Frontiers (ACEMS), Macquarie University's Data Analytics Research Lab, Bond University's Centre for Data Analytics, and Monash University's Department of Econometrics & Business Statistics. If you missed the June Centre Spotlight or would like to get to know some of our ADSN partners better, the presentations are now available on YouTube. [Watch the recordings](#)

### Upcoming events

#### [ADSN Centre Spotlight](#) | 23 July, 12pm-1:30pm | ADSN

This is an internally-focused event for current partners in the Australian Data Science Network. If you are a partner, partner representative or communications contact for your organisation's involvement in the Network and haven't received an invitation yet, [please contact us](#).

#### [Data Science Under the Hood: Manifold Learning](#) | 29 July, 2pm-3pm | QUT Centre for Data Science

This talk introduces Manifold Learning, the technique to uncover the intrinsic shape of the original data. We also discuss how different manifold learning paradigms can be designed to be incorporated to a dimensionality reduction technique to learn the accurate low-dimensional data representation.

[Register now](#)

#### [Provably Beneficial Artificial Intelligence – Professor Stuart Russell](#) | 5 August, 9:30am-10:30am | Monash Data Futures Institute

Intelligence gives us power over the world and other entities therein. As AI progresses, how will we retain power, forever, over entities that will eventually be more powerful than ourselves? Distinguished AI researcher Professor Stuart Russell will propose a solution to this conundrum based on a new model for the design of beneficial AI systems, in the inaugural lecture of Monash Prato Dialogue - Distinguished Lecture Series in AI. [Register now](#)

#### [Great Barrier Reef Citizen Science Challenge](#) | 14-22 August | ACEMS

Join us for National Science Week activities to celebrate the Great Barrier Reef & science! Take part in our Citizen Science challenge with the ultimate 1st prize holiday adventure to Cairns and the Great Barrier Reef, hosted by master-reef guides teaming with Reef Today filmmakers. [Register now](#)

#### [National Science Quiz](#) | 19 August, 6pm-7pm | ACEMS

ACEMS is proud to present the National Science Quiz, hosted by the ABC's Charlie Pickering. Our celebrity panel includes six top Australian scientists and science communicators. As they try to figure out some of the fun and unusual science questions they're given, you can play along at home for a chance to win prizes! It's fun for the whole family and a great way to get everyone interested in science! [Register now](#)

 [Artificial Intelligence for Pandemics \(AI4PAN\) Group: Virtual Seminars | Every second Wednesday, 10am-10:45am | The University of Queensland](#)

AI4PAN is a new strategically-funded group launched to support projects that evolved from the COVID-19 pandemic. The multi-disciplinary team is using a convergence of modern machine learning, mathematical modelling of epidemics and statistical analysis of clinical care intervention data and applying machine learning to clinical studies. The group strives to deliver global solutions and are in a unique position to make significant impacts on analysis, forecasting and the control of epidemics. Join the next [virtual seminar](#), or email [Hamid Khataee](#) / [Roxanne Jemison](#) to be added to the mailing list.

## Career opportunities

 [Research Fellow in Machine Learning for Time Series | Applications close 25 July | RMIT Centre for Information Discovery & Data Analytics \(CIDDA\)](#)

This is an exciting opportunity at RMIT for a new Machine Learning postdoc, preferably someone with experience in time-series data to work across two new projects funded by the Centre for New Energy Technologies. [Apply now](#)

 [Associate Professor/Senior Lecturer Biostatistics | Applications close 1 August | University of Sydney](#)

The Health and Clinical Analytics team is currently seeking a Senior Lecturer (level C) or Associate Professor (level D) in biostatistics to join their cross-disciplinary team of clinicians, statisticians, data scientists and informaticians. This person will collaborate on the team's existing suite of competitively funded studies, while working to build the methodologic basis for further innovation in research design. [Apply now](#)

 [Research Fellow - Swinburne's Intelligent Data Analytics Lab | Applications close 8 August | Swinburne University](#)

We are seeking a Research Fellow to undertake research in "Data-Driven Traffic Analytics and Simulation for Incident Analysis and Management", supported by the ARC Linkage Funding Scheme. The Fellow will be positioned in the Department of Computer Science and Software Engineering located at the Hawthorn Campus, and work closely with Swinburne researchers in intelligent transport systems. [Apply now](#)

 [Postdoctoral Research Fellow – Macquarie Optus Cyber Hub | Applications now open | Macquarie University](#)

Macquarie University is seeking a suitably qualified Postdoctoral Research Fellow to join a talented and dynamic team within the Department of Computing. [Apply now](#)

## Scholarship Opportunities

 [QLD Academy of Sport, Australian Institute of Sport, QUT Centre for Data Science PhD Scholarships in Data Science | Applications close 31 July | QUT Centre for Data Science](#)

The QUT Centre for Data Science (CDS), in partnership with the Queensland Academy of Sport (QAS) and Australian Institute of Sport (AIS), are offering three PhD scholarships for targeted projects at the intersection of data science and the sports, sports science and sports medicine. They present an

unique opportunity for methodological development and real-world collaboration via Australia's high-performance sports network. [Apply now](#)

### [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. [Submit an Expression of Interest](#)

## News highlights

### [Studying social media can give us insight into human behaviour. It can also give us nonsense](#) | Published 13 July | UNSW

Researchers found the letters X, Y, and Z make tweets more shareable. The nonsensical result shows how easily statistics can be misused. [Read more](#)

### [Rob Hyndman awarded the Pitman Medal 2021](#) | Published 8 July | Statistical Society of Australia

SSA is pleased to announce Rob J Hyndman, Professor of Statistics and Head of the Department of Econometrics & Business Statistics at Monash University, as the Pitman Medal winner. Rob is one of the world's most recognised statisticians and is internationally recognised for cultivating widespread interest around forecasting. He has authored about 200 papers, chapters, or books on statistical topics since 1991. [Read more](#)

### [New research lifts the clouds on land clearing and biodiversity loss](#) | Published 28 June | ACEMS

ACEMS researchers at QUT have developed a new machine learning mathematical system that helps to identify and detect changes in biodiversity, including land clearing, when satellite imagery is obstructed by clouds. Using statistical methods to quantify uncertainty, the research analysed available satellite images of an 180km square area in central south-east Queensland. [Read more](#)

## Contribute

Do you have an exciting news story, interesting opportunity or upcoming event that you would like featured in one of our newsletters or ADSN Alerts?

[Please contact us](#) to share your suggested content for consideration in the next ADSN communication piece.

## Connect

Make sure you're following the ADSN on Twitter [@AustralianData](#) to stay in the loop with the latest news, events and opportunities.

Remember to use the hashtags [#ADSN](#) and [#AustralianDataScience](#) so we can reshare relevant updates with the network!