What's New in the Australian Data Science Network

Welcome to the **September 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.

Get to know other partners

Last month we held our fourth ADSN Centre Spotlight, where we heard from the Swinburne University's Data Science Research Institute, the Monash Data Futures Institute, Deakin University's Data to Intelligence (D2I) Research Centre, and The University of Wollongong's National Institute for Applied Statistics Research Australia (NIASRA) & the Data and Decision Science Initiative. If you missed the August 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

📅 **Monitoring the nation's pulse: The what, who, how and why of the Australian Census**| **17 September, 12pm-1pm | QUT Centre for Data Science**
This webinar series is brought to you by the QUT Centre for Data Science and the Queensland Academy of Arts and Science. In this Data Science in the News webinar, we will explore the important role data science plays in the Australian Census. **Register now**

📅 **Distinguished Visitor Seminar - Assistant Professor Linda Tan**| **21 September, 11am-12pm | QUT Centre for Data Science**
The Centre for Data Science Distinguished Visitor Seminar Series has been created to provide a platform for our esteemed colleagues from across the nation and the globe to share their research, knowledge and expertise in the field of data science. The next seminar will be presented by Linda S. L. Tan. Linda is an Assistant Professor in the Department of Statistics and Data Science at the National University of Singapore. **Register now**

📅 **Data-driven queueing challenges**| **21-23 September | ACEMS**
The increasing availability of data in the operation of large computer networks and the management of human service systems creates new problems in queueing theory. To respond, ACEMS and NETWORKS are co-sponsoring an on-line workshop on `Data-driven queueing challenges', in association with The Alan Turing Institute. The workshop brings together researchers from statistics, stochastic modelling and data science to consider research directions in modelling and controlling queues, and in dealing with parameter uncertainty, when there is access to operational data. **Register now**

📅 **ADSN Centre Spotlight**| **24 September, 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**.

📅 **EC Bayes Seminar Series: Francesca Crucinio (Warwick)**| **30 September, 4:40pm-6pm |ACEMS, Statistical Society of Australia (QLD Branch) & QUT Centre for Data Science**
We are delighted to have our forth EC Bayes Seminar presented by Francesca Crucinio from the University of Warwick. **Register now**.

📅 **WIMSIG Conference 2021**| **1 October | Women in Mathematics**
The WIMSIG Conference 2021 will now be taking place at a range of "local hubs" on Friday 1st October. There will be events in Brisbane, Sydney, Melbourne, Hobart, Adelaide, and Perth. This one-day conference will have a mixture of local (in-person) activities and joint online activities. Local activities may include the opportunity for participants to present their research. **Register now**

Career opportunities

📍 **Postdoctoral Fellow** | **Applications close 21 September | UNSW**
The role is a two-year position funded by an Australian Research Council (ARC) Discovery grant "Bayesian inference for psychological theories with intractable likelihood," at the UNSW School of Economics, which is part of the UNSW Business School. **Apply now**

📍 **Research Fellow in Health Analytics & Process Optimisation** | **Applications close 4 October | The University of Melbourne**
The Research Fellow will contribute expertise in health analytics and simulation modelling through implementing advanced simulation, data science, and analytics models for optimising stroke air and land ambulance location and deployment. **Apply now**

📍 **Research Assistant** | **Applications close 8 October | University of Queensland**
The Mowry Lab seeks an experienced Research Assistant with a background in Bioinformatics, Statistical Genetics or a related field. The ideal candidate will demonstrate computer programming experience and experience using Bioinformatics applications. They will also possess a Bachelors or Masters in Bioinformatics or related field such as Computer Science, Mathematics or Statistics. **Apply now**

Scholarship opportunities

📌 **Fresh Supply Co: modelling risk in agricultural production to improve lending decisions** | **Applications close 20 September | QUT Centre for Data Science**
This is an outstanding opportunity to engage in statistics and data science applications in the agriculture sector. Your work will support agricultural producers in obtaining more cost-effective loans. On the technical side, the research involves data analysis, modelling and simulation. **Find out more**

📌 **2021 Scholarships for PhD and Master of Research** | **Applications close 30 September | University of Southern Queensland**
USQ's Advanced Data Analytics Group has PhD and Master of Research degree opportunities. Students can potentially apply for and be supported by a USQ Postgraduate Scholarship. To discuss the opportunity please email Professor Ravinesh Deo. **Find out more**

📌 **PhD Scholarship: AI Learning Lab** | **Applications close 4 October | University of South Australia**

This project presents a unique opportunity to join our research team and develop an AI LearningLab for schools that provides students with a safe place to explore and learn with AI. **Find out more**

News highlights

📰 **Doing Poseidon's work: How citizen scientists are helping to restore endangered seagrass** | **Published on 9 September | UNSW**
An endangered seagrass which supports seahorses, blue swimmer crabs and fish like snapper is being successfully rehabilitated thanks to the help of citizen scientists and UNSW scientists. **Read more**

📰 **Math researchers find new ways to improve the science of 'trade-offs'** | **Published on 9 September | QUT Centre for Data Science**
QUT researchers working on complicated problems in agriculture, ecology and medicine have developed a mathematical model to enable faster solutions. Questions about intervention, how strong and how long, are just some of the judgment calls faced by doctors and scientists during everyday decision-making. **Read more**

📰 **UNSW team of ecologists to develop 'ecological balance sheet' for Royal National Park** | **Published on 4 September | UNSW**
World-leading ecologist Professor Richard Kingsford and a team from the Centre for Ecosystem Science is helping the NSW government develop an ecological health monitoring plan for Royal National Park and adjacent Garrawarra State Conservation Area and Heathcote National Park, as part of NSW Parks & Wildlife Service's (NPWS) "scorecards" project. **Read more**

📰 **PhD students recruited to advance exciting possibilities in machine learning and health care** | **Published on 23 August | AIML**
It seems hard to imagine that artificial intelligence (AI) could help patients with rheumatoid arthritis or lung disease. Two new PhD students have recently joined the Australian Institute for Machine Learning (AIML) at the University of Adelaide to advance these exciting possibilities. **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!