



# EVENT INFORMATION

12-15 JUNE 2018, THE UNIVERSITY OF QUEENSLAND, BRISBANE

## ABOUT THE WINTER SCHOOL

The Australian Academy of Science, in association with Committee on Data of the International Council for Science (CODATA) and the Research Data Alliance (RDA), have developed a Research Data Science Winter School program that aims to teach and refresh some of the most relevant range of skills relating to research data science for early- and mid-career researchers (EMCRs).

The winter school brings together 15 EMCRCs from different disciplines, 13 from Australia, one from Indonesia and one from Papua New Guinea. During the four-day intensive program, you will learn how to manage, curate, share and use data that is core to your research, acquire basic programming and data analytic skills, and learn key considerations associated with research data by engaging with experienced data scientists.

## KEY CONTACTS

Australian Academy of Science on-site contact

Laura Navarro

EMCR Policy and Events Coordinator

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## PROGRAM

### Tuesday, 12 June 2018

8.20	Coach departs from Rydges South Bank to University of Queensland
9.00	Registration
9.30	<b>Introduction and Open Science</b> Professor Jane Hunter, Director of the eResearch Lab, University of Queensland Dr Hugh Shanahan, Senior Lecturer in Bioinformatics, University of London
11.00	COFFEE BREAK Engagement opportunity with Michael Lund Deputy Science and Technology Editor, The Conversation AU
11.15	<b>The Unix Shell (SW Carpentry)</b> Instructors: Belinda Weaver and Leah Roberts Helpers: Stephane Guillou, Valentine Murigneux and Sandra Brosda
12.45	LUNCH
13.30	<b>The Unix Shell (SW Carpentry)</b> (continued)
15.00	COFFEE BREAK
15.30 - 17.30	<b>Version Control with Git (SW Carpentry)</b> Instructors: Belinda Weaver and Leah Roberts Helpers: Stephane Guillou, Valentine Murigneux and Sandra Brosda
17.40	Coach departs from University of Queensland to Rydges South Bank

### Wednesday, 13 June 2018

8.20	Coach departs from Rydges South Bank to University of Queensland
9.00	<b>Version Control with Git (SW Carpentry)</b> (Continued)
10.30	COFFEE BREAK
11.00	<b>Introduction to R (SW Carpentry)</b> Instructor: Sandra Brosda Helpers: Stephane Guillou, Valentine Murigneux, Belinda Weaver and Leah Roberts
12.30	LUNCH
13.30	<b>Introduction to R (SW Carpentry)</b> Instructor: Sandra Brosda Helpers: Stephane Guillou, Valentine Murigneux, Belinda Weaver and Leah Roberts
15.00	COFFEE BREAK
15.30 - 17.30	<b>Introduction to R (SW Carpentry)</b> (continued)
17.40	Coach departs from University of Queensland to Rydges South Bank

## Thursday, 14 June 2018

8.20	Coach departs from Rydges South Bank to University of Queensland
09.00	<b>Introduction to R (SW Carpentry)</b> (continued)
10.30	COFFEE BREAK
11.00	<b>Introduction to R (SW Carpentry)</b> (continued)
12.30	LUNCH
13.20	<b>Introduction to R (SW Carpentry)</b> (continued)
14.50	COFFEE BREAK
15.10 – 17.00	<b>Research Data Management</b> Ms <b>Natasha Simons</b> , Program Leader, Skills Policy and Resources; ANDS, RDS, Nectar Professor <b>Ginny Barbour</b> , Director, Australasian Open Access Strategy Group Technology, QUT
17.10	Coach departs from University of Queensland to Rydges South Bank
18.30 – 21.30	<b>Conference Dinner</b> Level 12 Rooftop South, Rydges Southbank Guest Speaker: Professor <b>Christopher Pettit</b> , UNSW Australia

## Friday, 15 June 2018

8.20	Coach departs from Rydges South Bank to University of Queensland
09.00	<b>Research Data Management</b> (continued)
10.30	COFFEE BREAK
10.50	<b>Research Data Management</b> (continued)
12.20	LUNCH
13.00	<b>Research Computational Infrastructure</b> Amanda Miotto, Senior Analyst, eResearch Services, Griffith University Dr David Green, HPC Manager, Research Computing Centre, The University of Queensland Dr Minh Dinh, Research Fellow, Research Computing Centre, The University of Queensland
14.30	COFFEE BREAK
14.50	<b>Research Computational Infrastructure</b> (continued)
16.20 – 16.35	<b>Workshop wrap-up</b> Professor <b>Jane Hunter</b> , Director of the eResearch Lab, University of Queensland
16.45	Delegate coach departs to airport

## COACH SCHEDULE SEE NOTES ON PAGE 4

Date	Departure time	Pick up location	Destination
Tuesday 12 June	8.20am	Rydges South Bank Meet at the hotel foyer	General Purpose South, University of Queensland
	5.40pm	General Purpose South, University of Queensland	Rydges South Bank
Wednesday 13 June	8.20am	Rydges South Bank	General Purpose South, University of Queensland
	5.40pm	General Purpose South, University of Queensland	Rydges South Bank
Thursday 14 June	8.20am	Rydges South Bank	General Purpose South, University of Queensland
	5.10pm	General Purpose South, University of Queensland	Rydges South Bank
Friday 15 June	8.20am	Rydges South Bank	General Purpose South, University of Queensland
	4.45pm	General Purpose South, University of Queensland	Brisbane Domestic Airport

## SPEAKERS



HUGH SHANAHAN



CHRISTOPHER JAMES PETTIT

### Opening speaker

#### Dr Hugh Shanahan

Senior Lecturer in Bioinformatics  
Department of Computer Science  
Royal Holloway, University of London

Dr Shanahan has a deep background in theoretical and computational physics, coupled with a more recent move into computational biology. He collaborates closely with experimental biologists to develop an understanding, at a molecular level, of how organisms function. His specialties include computational and theoretical Physics, computational biology, protein-DNA interactions, and cloud computing.

### Dinner speaker

#### Professor Christopher James Pettit

Professor of Urban Science  
City Futures Research Centre  
UNSW Australia

Professor Chris Pettit is the inaugural Chair of Urban Science at the University of New South Wales and Director of the City Analytics Program, City Futures Research Centre, UNSW. He is on the Board of Directors of CUPUM (Computers in Urban Planning and Urban Management) and on the international advisory board for 'Geo for all.'

His expertise is in the convergence of the fields of Urban Planning and Geographical Information Sciences (GIS) where he has published more than 150 peer reviewed papers. For the last 20 years, he has been undertaking research and development in the use of spatial information and mapping technologies for envisioning what if? scenarios across both urban and regional landscapes. His research expertise also spans applications, development and the critique of geographical visualization tools including, advanced spatial decision support systems and city dashboards.

## PARTICIPANTS

### Dr Fiona Cocker

Research Fellow  
University of Tasmania

### Dr Tan Doan

Research Fellow  
University of Melbourne

### Dr Grant Duffy

Postdoctoral Research Associate  
Monash University

### Dr Jinzhe Gong

Post-Doctoral Research Fellow  
The University of Adelaide

### Dr Josh Hixson

Research Scientist  
The Australian Wine Research Institute

### Dr Yangtao Huang

Postdoctoral Research Fellow  
The University of Queensland

### Mrs Dawnie Katovai

Lecturer  
Pacific Adventist University, Papua New Guinea

### Dr Joanne Mcveigh

Senior Lecturer  
Curtin University

### Dr Mahboobeh Moghaddam

Postdoctoral Researcher  
University of Queensland

### Dr Sudirman Nasir

Senior Lecturer  
Hasanuddin University, Indonesia

### Dr Seyyed Ali Pourmousavi Kani

Research Fellow  
The University of Queensland

### Dr Jacqueline Stephens

Research Fellow  
University of South Australia

### Dr Indvarie Ubhayaratne

Associate Research Fellow  
Deakin University

### Dr Maria Yanotti

Lecturer  
Tasmanian School of Business and Economics

### Dr Komali Yenneti

Lecturer  
University of New South Wales

## ORGANISING COMMITTEE

### Professor Jane Hunter

Professor, School of Information Technology  
and Electrical Engineering  
University of Queensland

### Dr Lesley Wyborn

Adjunct Fellow, National Computational  
Infrastructure Facility and Research School of  
Earth Sciences  
Australian National University

### Dr Ross Wilkinson

Executive Director  
Australian National Data Service (ANDS)

### Professor Ginny Barbour

Director, Australasian Open Access Strategy  
Group Technology  
Queensland University of Technology

### Ms Natasha Simons

Program Leader, Skills Policy and Resources  
ANDS, RDS, NECTAR

### Professor Louisa Jorm

Director of the Centre for Big Data Research  
in Health  
University of New South Wales

### Dr Róisín McMahon

Research Officer  
Griffith University

## PREPARATION

Participants must bring a laptop with a Mac, Linux, or Windows operating system (not a tablet, Chromebook, etc.) that they have administrative privileges on and with an up-to-date web browser.

Most of the sessions at the Winter School are hands-on and require that you prepare and download all the materials and programs in advance. See below the relevant links with instructions for each session:

Software Carpentry: <https://weaverbel.github.io/2018-06-12-wrds/>

Research Computational Infrastructure: You must set up an Awoonga account in preparation for these sessions. Visit <https://rcc.uq.edu.au/awoonga#awoonga-account> and follow the instructions. At the 'Complete the form with the following details' step, name the request: 'Theo Murphy Winter School HPC Training' to get access.

## VENUE

The Winter School will take place in Room 343 of the GP South Building the University of Queensland, St Lucia Campus, Brisbane.

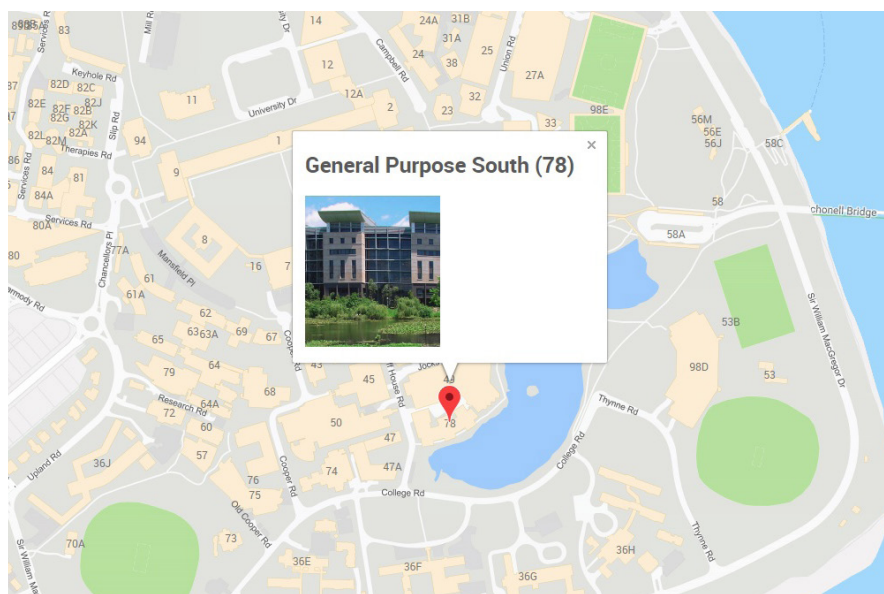
## HOTEL

Accommodation has been booked for selected participants at Rydges South Bank, 9 Glenelg St, South Brisbane.

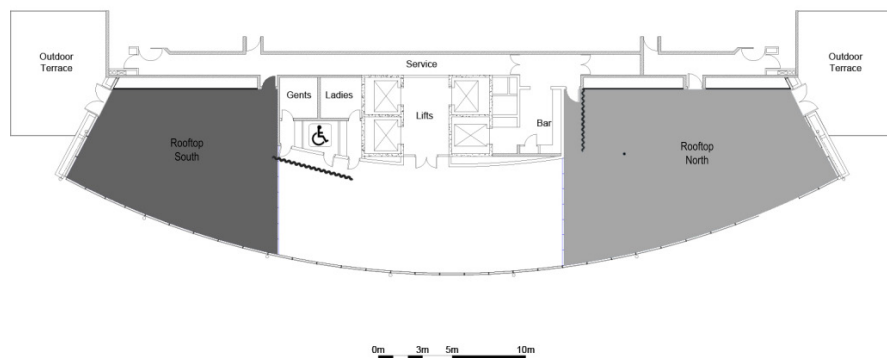
Breakfast is included with accommodation. Any additional room charges must be covered directly by the participant.

## CONFERENCE DINNER

A dinner has been scheduled as part of the Research Data Science Winter School from 6.30 pm to 10.00 pm on Thursday 14 June at Level 12 Rooftop South at Rydges South Bank (see floorplan on page 4).



## THE ROOFTOP LVL 12



for all areas of research. It supports the principle that data produced by research and susceptible to be used for research should be as open as possible and as closed as necessary.

### RDA

The Research Data Alliance (RDA) enables data to be shared across barriers through focused Working Groups and Interest Groups, formed of experts from around the world—from academia, industry and government. Participation in RDA is open to anyone who agrees to its guiding principles of openness, consensus, balance, harmonisation, with a community driven and non-profit approach.

### Software Carpentry

Software Carpentry is a volunteer non-profit organisation dedicated to teaching basic computing skills to researchers to help them improve or speed up their research. This international collaboration has run hundreds of events for more than 34,000 researchers since 2012.

### The Australian National Data Service

The Australian National Data Service (ANDS) is a partnership led by Monash University, working in collaboration with the Australian National University (ANU) and the Commonwealth Scientific and Industrial Research Organisation (CSIRO). It is funded by the Australian Government through the National Collaborative Research Infrastructure Strategy (NCRIS). Its core purpose is to make Australia's research data assets more valuable for researchers, research institutions and the nation.

### Australasian Open Access Strategy Group

The Australasian Open Access Strategy Group (AOASG) works to: advocate, collaborate, raise awareness and lead and build capacity for open access to all the outputs of scholarship in Australia and New Zealand.

### The University of Queensland

The University of Queensland (UQ) is one of Australia's leading research and teaching institutions. UQ is one of only three Australian members of the global Universitas 21, a founding member of the Group of Eight (Go8) universities, and a member of Universities Australia.

As part of the dinner, Professor Christopher Pettit, Professor of Urban Science at UNSW, will present a talk on 'Using smart digital planning tools to improve infrastructure decision making', and Dr Roisin McMahon, EMCR Forum Executive member, will present a brief introduction on the work of the EMCR Forum.

The dinner will offer participants the opportunity to network with Fellows of the Academy, leaders from academia and industry. All participants are expected to attend; please let us know as soon as possible if you won't be joining the dinner.

Dress code: business casual.

### COACH

A coach service will be provided on 12-15 June between the Rydges South Bank and the University of Queensland for the participants staying at the hotel.

Local Brisbane participants are welcome to take the coach if they wish to. Please notify Laura Navarro at [laura.navarro@science.org.au](mailto:laura.navarro@science.org.au) confirming which days you would like to use this service to make sure the coach waits for you.

Participants driving to the University can search parking options in the following page: [www.pf.uq.edu.au/parking/casual.html](http://www.pf.uq.edu.au/parking/casual.html)

**The coach schedule for your reference is on page 2.**

The coach departing to the airport at the end of the Winter School on Friday 15 June at 4.45pm will not return to the hotel. Please make sure to check out from the hotel that morning and bring your luggage with you.

The pickup schedule may vary, an announcement will be made to all participants if there are any time changes.

### NETWORKING OPPORTUNITIES

Participants are encouraged to make the most of the breaks and network with the speakers, instructors and other participants.

On Tuesday 12 June Michael Lund, Deputy Science and Technology Editor, The Conversation AU, will join the morning tea to engage with the participants and talk about their research. This is an important opportunity to connect with the Conversation. If you are interested writing an article for publication in the Conversation please come prepared with a pitch. Michael is also happy to talk to participants more generally about their work and the potential for future interaction with the Conversation

### PARTNERS

#### The Theo Murphy Initiative (Australia)

The Theo Murphy Initiative (Australia) supports activities which provide tangible benefits to Australia's early- and mid-career researcher (EMCR) community, with the overall goal of furthering scientific discovery. Activities are managed by the Australian Academy of Science and funds are made available by the generous support of the Royal Society through the Theo Murphy (Australia) Fund.

#### CODATA

CODATA is the Committee on Data of the International Council for Science (ICSU). CODATA exists to promote global collaboration to improve the availability and usability of data