## 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 (ROA), 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 EMCRs 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  
M: 0450 164 186  
E: laura.navarro@science.org.au

### PROGRAM

**Tuesday, 12 June 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>8.20</td>
<td>Coach departs from Rydges South Bank to University of Queensland</td>
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<tr>
<td>9.00</td>
<td>Registration</td>
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| 9.30  | Introduction and Open Science  
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 |
| 11.15 | The Unix Shell (SW Carpentry)  
Instructors: Belinda Weaver and Leah Roberts  
Helpers: Stephane Guillou, Valentine Murigneux and Sandra Brosda |
| 12.45 | LUNCH |
| 15.00 | COFFEE BREAK |
| 15.30 | Version Control with Git (SW Carpentry) (Continued) |
| 15.30 | Version Control with Git (SW Carpentry) |
| 17.30 | LUNCH |
| 17.40 | Coach departs from University of Queensland to Rydges South Bank |

**Wednesday, 13 June 2018**

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<td>COFFEE BREAK</td>
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</table>
| 11.00 | Introduction to R (SW Carpentry)  
Instructor: Sandra Brosda  
Helpers: Stephane Guillou, Valentine Murigneux, Belinda Weaver and Leah Roberts |
| 12.30 | LUNCH |
| 13.30 | Introduction to R (SW Carpentry)  
Instructor: Sandra Brosda  
Helpers: Stephane Guillou, Valentine Murigneux, Belinda Weaver and Leah Roberts |
| 15.00 | COFFEE BREAK |
| 15.30 | Introduction to R (SW Carpentry) (continued) |
| 17.30 | LUNCH |
| 17.40 | Coach departs from University of Queensland to Rydges South Bank |
Thursday, 14 June 2018

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<tr>
<td>13.20</td>
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<tr>
<td>14.50</td>
<td>COFFEE BREAK</td>
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<tr>
<td>15.10 – 16.00</td>
<td>Research Data Management</td>
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<tr>
<td>17.00</td>
<td>Ms Natasha Simons, Program Leader, Skills Policy and Resources; ANDS, RDS, Nectar</td>
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<tr>
<td>17.10</td>
<td>Professor Ginny Barbour, Director, Australasian Open Access Strategy Group Technology, QUT</td>
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<tr>
<td>18.30 – 19.30</td>
<td>Conference Dinner</td>
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<td>18.30</td>
<td>Level 12 Rooftop South, Rydges Southbank</td>
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<td>21.30</td>
<td>Guest Speaker: Professor Christopher Pettit, UNSW Australia</td>
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Friday, 15 June 2018

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<td>LUNCH</td>
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<tr>
<td>13.00</td>
<td>Research Computational Infrastructure</td>
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<td>13.00</td>
<td>Amanda Miotto, Senior Analyst, eResearch Services, Griffith University</td>
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<td>13.00</td>
<td>Dr David Green, HPC Manager, Research Computing Centre, The University of Queensland</td>
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<tr>
<td>13.00</td>
<td>Dr Minh Dinh, Research Fellow, Research Computing Centre, The University of Queensland</td>
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<td>14.30</td>
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<td>14.50</td>
<td>Research Computational Infrastructure (continued)</td>
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<td>16.20 – 16.35</td>
<td>Workshop wrap-up</td>
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<td>16.20</td>
<td>Professor Jane Hunter, Director of the eResearch Lab, University of Queensland</td>
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<td>16.45</td>
<td>Delegate coach departs to airport</td>
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COACH SCHEDULE  
SEE NOTES ON PAGE 4

<table>
<thead>
<tr>
<th>Date</th>
<th>Departure time</th>
<th>Pick up location</th>
<th>Destination</th>
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<tr>
<td>Tuesday 12 June</td>
<td>8.20am</td>
<td>Rydges South Bank</td>
<td>General Purpose South, University of Queensland</td>
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<td>5.40pm</td>
<td>General Purpose South, University of Queensland</td>
<td>Rydges South Bank</td>
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<td>4.45pm</td>
<td>General Purpose South, University of Queensland</td>
<td>Brisbane Domestic Airport</td>
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SPEAKERS

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 Indivarie 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

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).
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 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

The coach schedule for your reference is on page 2.

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 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.