



**Wednesday 12 February**

|   |  |  |  |
|---|--|--|--|
| 9:00 Registration Open  |  |  |  |
| 10:00 - 12:30 Session: Opening Ceremony and Keynotes  |  |  |  |
| 10:00 Conference Welcome Address  |  |  |  |
| 10:30 Keynote 1 - Rosie Hicks   |  |  |  |
| 11:30 Keynote 2 - Micsela Parker  |  |  |  |
| 12:30 - 13:30   |  | Lunch  |  |
| 13:30 - 15:10 Breakout Session 1  |  |  |  |
| A   | B  | C  | D  |
| 13:30 Megan Guidry - Training: It's better together   | David Fellingner - Building a Federated Research Collaborative   | Miles Berton - Assessing the potential of autonomous AI devices for portable real-time DNA sequencers and deployable sensors   |  |
| 13:50 Ngoni Faya - Genomics Aotearoa Training going on!   | Callum Walley - Engineering HPC: What's going on?  | Ann Mc Cartney - Utilising Oxford Nanopore Data for the Genome Assembly of Endemic New Zealand Species   |  |
| 14:10 Murray Cadzow - Carpentries at Otago  | Marko Laban - Cloud-native technologies in eResearch - benefits and challenges   | Elizabeth Permina - Mice, organoids and single cells: computational methods for cancer treatment   |  |
| 14:30 Christina Hall - Hybrid Training: a scalable model for delivering hands-on training to dispersed learners   | Ryan Chard - Automating the Research Data Lifecycle with Globus Automate   | Elatan Niktab - Network-based Nonparametric Tests to Identify Genetic Modifiers of Rare Diseases   | Workshop: Chris Scott - First steps in machine learning with NeSI (part 1) |
| 14:50 <b>Lightning talks:</b> Riku Takei - Internationalisation of The Carpentries - Lessons learnt on the way / Matt Boleley - Reproducible Posters: an Otago Theme                      | <b>Lightning talks:</b> Wallace Chase - Why so slow? Molasses biased data transfers... / Jun Huh - Learning How To Learn | <b>Lightning talks:</b> Alessandra Santana - Per-sample pathway analysis tool for DNA methylation data / Joseph Guhlin - I'm a Big Metal Fan: Big Data at the Lowest Level |  |
| 15:10 - 15:30   |  | Afternoon Tea  |  |
| 15:30 - 17:30 Birds-of-a-Feather (BoF) Sessions   |  |  |  |
| A   | B  | C  | D  |
| 15:30 Megan Guidry - Building and Supporting a New Zealand Digital Literacy Training Community / Sara King - A Common Thread: Creating community, working together and enriching research | Laura Armstrong - Identifying, connecting and citing research with persistent identifiers.                               | Blair Bethwaite - Research Cloud NZ  | Workshop: Chris Scott - First steps in machine learning with NeSI (part 2) |
| 17:30 - 18:30   |  | End of Day One   |  |
| 17:30 - 18:30   |  | Welcome Function Dunedin Centre  |  |

**Thursday 13th February**

|   |   |  |  |
|---|---|--|--|
| 9:00 Registration Open  |   |  |  |
| 9:30 - 10:30 Session: Plenary/Keynote   |   |  |  |
| 9:30 Keynote 3 - Richard Dean   |   |  |  |
| 10:30 - 11:00   |   | Morning Tea  |  |
| 11:00 - 12:20 Breakout Session 2  |   |  |  |
| A   | B   | C  | D  |
| 11:00 Alexander Ritchie - Humanities Data United - An Untapped Resource or just an Un tidy Office?  | Wolfgang Hayek - Singularity containers on HPC  | Rachael Ashby - GBSathon: Benchmarking reproducibility of Genotyping-by-Sequencing analysis workflows through comparison with SNP chip and pedigree data |  |
| 11:20 Alan McCulloch - Data Pipelines and Prisms  | David Eyers - Challenges and opportunities in timely and efficient delivery of IT for eResearch projects.                 | Thomas Nicholson - Using comparative RNASeq to identify small non-coding RNAs in bacterial clades  | Birds of a Feather: Brian Flaherty - Building a national/regional data transfer platform: Globus BfF |
| 11:40 Shona Mackie - Climate Data and Computing Needs are Hotting Up!   | Paula Andrea Martinez - Towards FAIR principles for research software   | Alana Alexander - Akoranga from research consultation with Māori on sequencing the   |  |
| 12:20 Shobhan Smith - Uniting equipment and research publications: bigger than Ben Hur?   | Chris Hines - Stroud2: Increasing accessibility of HPC Infrastructure   | Matt Boleley - Naive Prediction of Cancer Outcomes using Machine Learning  |  |
| 12:20 - 13:30   |   | Lunch  |  |
| 13:30 - 15:10 Breakout Session 3  |   |  |  |
| A   | B   | C  | D  |
| 13:30 Lisa Thomassen - Influencing Data Culture to Optimise Data Utilisation  | Nick Jones - Advancing New Zealand's computational research capabilities and skills                                       | Jun Huh - User journey-driven product management   |  |
| 13:50 Brian Flaherty - Where Data Lives: NeSI, taonga and growing repository services.  | Jeff Zais - Worldwide Trends in Computer Architectures for Data Science   | Vladimir Mendt - Enabling authentication at global scale: an update on REANNZ services   |  |
| 14:10 Andrea Goethals - Digital Preservation New Zealand  | Andrew Lonie - Progress in the Australian BioCommons  | Dinindu Senanayake - HPC for life sciences: handling the challenges posed by a domain that relies on big-data  | Workshop: Blair Bethwaite - Containers in HPC Tutorial (part 1)                                      |
| 14:30 Sander Zwanenburg - Otago's Network for Engagement And Research: Mapping Academic Expertise and Connections   | Steven McEachern - Sharing across the ditch: infrastructure for social science research data in Australia and New Zealand | Chris Hines - The Undies-Mate Un-Debate  |  |
| 14:50 <b>Lightning talks:</b> Lana Alsabbagh - Use of the National Library's Web and Twitter Collections for Research / Jess Howie - Support for Research Data Management in university libraries - How far have we come? |   | <b>Lightning talks:</b> Wallace Chase - Frozen data / Adam Burtovskik - Why overfitting is bad for science: Lessons from psychology                      |  |
| 15:10 - 15:30   |   | Afternoon Tea  |  |
| 15:30 - 17:30 Birds-of-a-Feather (BoF) Sessions   |   |  |  |
| A   | B   | C  | D  |
| 15:30 Jonny Flutey - Micro-credentials and Research Skills Development  | Jana Makar - Building a Women in HPC community in Australasia: Where to from  | Anton Angelo - All Research Questions Are Ethical Questions  | Workshop: Blair Bethwaite - Containers in HPC Tutorial (part 2)                                      |
| 17:30 - 18:30   |   | End of day 2   |  |
| 19:00 - 22:00   |   | Conference Dinner Larnach Castle   |  |

This event is included in full and student registrations, however tickets are limited so your attendance must be confirmed prior to the conference commencement.

**Friday 14 February**

|   |  |   |  |
|---|--|---|--|
| 9:00 Registration Open  |  |   |  |
| 9:30 - 10:30 Session: Plenary/Keynote   |  |   |  |
| 9:30 Keynote 4 - Amber Budden   |  |   |  |
| 10:30 - 11:00   |  | Morning Tea   |  |
| 11:00 - 12:20 Breakout Session 4  |  |   |  |
| A   | B  | C   | D  |
| 11:00 Richard Sinnott - Applied Deep Learning for Diverse Research Communities                          | Stephanie Guichard - Data-intensive approaches to finding and predicting research outcomes for New Zealand health research | Wallace Chase - How does REANNZ work?   |  |
| 11:20 Justin Baker - eResearch Collaboration Projects - supporting CSIRO's digital science and research | Jonny Williams - Earth system modelling in New Zealand - turning big data in big science                                   | Alexander Pletzer - Enhancing eResearch productivity with NeSI's consultancy service                      | Workshop: Shobhan Smith - United in data management: Is it time for a national research data management framework? |
| 11:40 Jo Lane - Scientific supercomputing: Teaching practical skills for credit                         | Nancy Lin - Data Analytic Transformation Journey with Jupyter  | <del>Ten McNamara - DevOps for scientific reproducibility: case studies from CFD and bioinformatics</del> |  |
| 12:00 Matt Plummer - Running Rāpoi: Rebooting Research Computing & Support at VUW                       | Carina Kemp - Building an International FAIR Infrastructure for 'Uniting' Research Data                                    | Dan Sun - Big Internet Pipe and Cloud Saved My Storage in Crisis  |  |
| 12:20   |  | Conference wrap-up  |  |
| 12:30 - 13:30   |  | Lunch   |  |
| 13:30 - 15:30 Birds-of-a-Feather (BoF) Sessions   |  |   |  |
| A   | B  | C   | D  |
| 13:30 Noorjahan Lohani - Research Software Engineering Community update and next steps in New Zealand   | Joep De Ligti - Scalable Workflows and Reproducible Data Analysis (for Genomics)   | Carina Kemp- Data movement challenges to research productivity - examples and responses                   | Alexis Trindal - Humanities, Arts and Social Sciences: What have we learned, where are we going?                   |
| End of day 3  |  |   |  |