

Monday

8:15 Registration Open

9.00 - 10:00

Light Morning Tea

10:00 - 12:30 Session: Opening Keynotes

10:00 Conference Welcome Address and mihi whakatau

10:30 [Keynote: Amanda Barnard - Dimension reduction in the data-driven design of materials](#)

11:30 [Keynote: Gary Evans - The New Zealand Science System: Challenges and Opportunities for eResearch](#)

12:30 - 13:30

Lunch

13:30 - 15:10 Breakout Session 1

eResearch Applications

Local and Global Developments

Communities and Digital Scholarship

Chair: Michael Uddstrom

Location: Robert Laidlaw Room

13:30 [Blair Blakie: Computing droplet crystals of a magnetic quantum gas](#)

13:50 [Emily Kendall: Methods for simulation of dark matter dynamics in cosmology](#)

14:10 [Andrew Ensor: New Zealand's contributions to the Square Kilometre Array Project](#)

14:30 [Alexander Pletzer: How NeSI helps Manaaki Whenua - Landcare Research monitor land cover changes](#)

14:50 [Jason Motha: Cybershake NZ: Seismic hazard analysis using High Performance Computing](#)

Chair: Robin Bensley

Location: World Champions Team Room

[Mark Dietrich - Mapping eResearch](#)

[Ecosystems: the international situation is intensifying!](#)

[Jun Huh: Understanding research drivers for New Zealand's advanced research computing](#)

Chair: Murray Cadzow

Location: Peter Healey Room

[Antje Lubcke & Anton Angelo: Library Carpentry and real world librarianship](#)

[David Eyers: Using micro-credentials to support life-long attestation of learners' mastery of eResearch tools](#)

[Dharani Sontam: Research Bazaar 2018 – Highlights, insights, and what can we learn from each other?](#)

15:10 - 15:30

Afternoon Tea

15:30 - 17:30 Breakout Session 2

eResearch Applications

Local and Global Developments

Platforms & Tools

Communities and Digital Scholarship

Chair: Mik Black

Location: Robert Laidlaw Room

15:30 [Bianca Haux: Understanding tumour evolution through spatial collaboration in augmented reality](#)

15:50 [Dongwen Luo: DeltaGen – a digital tool for plant breeder](#)

16:10 [Maxime Bombrun: Large-scale phenotyping inferences: From trees to forest through machine learning](#)

16:30 [Mike Keehan: The outlook is Cloudy](#)

16:50 [Dinindu Senanayake: Catering to domain \(Genomics\) specific eResearch needs](#)

17:10

Chair: Jo Lane

Location: World Champions Team Room

[Nick Jones: NeSI Futures](#)

[Mik Black: Genomics Aotearoa – growing genomics research capability in NZ](#)

[Wallace Chase: REANNZ Update](#)

[Rick Christie: Research sector investments – what we've learnt and where we might go](#)

Chair: Cameron McLean

Location: Peter Healey Room

[Michael Lynch: Provisioning and sustaining research workspaces and repositories - progress on ReDBox 2](#)

[David Fellingner: Automating data management in high performance computing](#)

[Yvette Wharton: Lighting up our 'dark' data. Dropbox - a tool for research data projects and collaboration](#)

[Michael Lynch: Packaging research data with DataCrate - a cry for help!](#)

[Charles Seviar: Data capital in eResearch - Maximise the value of your data assets with Dell EMC](#)

Chair: n/a

Location: Calder Mackay Room

[Murray Cadzow: What happens on Monday? \(BoF\)](#)

[Georgina Rae: Training Community Birds of a Feather: Supporting each other to support researchers](#)

17:30 - 18:30

Break

18:30 - 19:30

Welcome to Conference  
Heritage Hotel, Level 1

Tuesday

8:15 Registration Open				
8:30 - 10:30 Session: Plenary/Keynote				
8:30 <a href="#">Keynote: Tahu Kukutai - Indigenous data sovereignty: Challenges and opportunities in Aotearoa NZ</a>				
9:30 <a href="#">Keynote: Ruby Mendenhall - Using Big Data to Recover Black Women's Lost History</a>				
10:30-11:00 <b>Morning Tea</b>				
11:00-12:30 Breakout Session 3				
	Local and Global Developments	Platforms and Tools	Research Data Management	Communities and Digital Scholarship
	Chair: Mark Dietrich Location: Robert Laidlaw Room	Chair: Brian Flaherty Location: World Champions Team Room	Chair: n/a Location: Peter Healey Room	Chair: n/a Location: Calder Mackay Room
11:00	<a href="#">Michael Uddstrom: The NeSI HPC Compute and Data Analytics Service: New systems, new capabilities, new science</a>	<a href="#">Ian Foster: Globus Automate: A distributed research automation platform</a>		
11:20	<a href="#">Mark Gray: Current and future directions for HPC at Pawsey Supercomputing Centre</a>	<a href="#">Dan Sun and Jose Higino: Deploying a globus endpoint in an NZ institution</a>	<a href="#">Natasha Simons and Kate LeMay: Skilling up in research data management: A crash course for librarians and data stewards (workshop)</a>	<a href="#">Mike Ladd: Open Space Session (workshop)</a>
11:40	April Neoh: The changing face of supercomputing	<a href="#">Globus Birds-of-a-Feather (BoF)</a>		
12:00				
12:30 - 13:30 <b>Lunch</b>				
13:30 - 15:10 Breakout Session 4				
	Local and Global Developments	eResearch Applications	Research Data Management	Communities and Digital Scholarship
	Chair: Blair Bethwaite Location: Robert Laidlaw Room	Chair: Nauman Maqbool Location: World Champions Room	Chair: n/a Location: Peter Healey Room	Chair: Yvette Wharton Location: Calder Mackay Room
13:30	<a href="#">Wolfgang Hayek: Visualisation capabilities of NeSI's new high performance computers</a>	<a href="#">Wallace Chase: Why bother with a ScienceDMZ?</a>		<a href="#">Mandes Schönherr: A day in the life of NeSI's Apps Support</a>
13:50	<a href="#">Fabrice Cantos: NeSI and your data: Scalable storage</a>	<a href="#">Richard Procter: Intelligent network performance metrics</a>	<a href="#">Natasha Simons and Kate LeMay: Skilling up in research data management: A crash course for librarians and data stewards (workshop)</a>	<a href="#">Noorayah Lohani: Research Software Engineering (RSE)- What's in a name</a>
14:10	<a href="#">Brian Flaherty: Kicking On: Scaling data services at NeSI</a>	<a href="#">Vedant Chauhan: Secure audit of clinical registry records using Blockchain</a>		
14:30	<a href="#">Nancy Lin: Insight into the new NeSI Platforms</a>	<a href="#">Mostafa Sharifi: Application and viability evaluation of RFID battery free sensing technology for digital agriculture</a>		
14:50		<a href="#">Hong Zhang: Digital technologies for primary industrial research</a>		
15:10 - 15:30 <b>Afternoon Tea</b>				
15:30 - 17:30 Birds-of-a-Feather (BoF) Sessions				
	Location: Robert Laidlaw Room	Location: World Champions Room	Location: Peter Healey Room	Location: Calder Mackay Room
15:30	<a href="#">Steve Knight: Digital Humanities</a>	<a href="#">Yvette Wharton: Research data repositories and instrument workflows</a>	<a href="#">Ian Duncan and Nick Jones: (Inter)national collaborative research infrastructure strategies</a>	<a href="#">Noorayah Lohani: Research Software Engineering (RSE) Session</a>
16:30	<a href="#">Frankie Stevens: Sensitive Data - How do you do yours?</a>	<a href="#">Natasha Simons: Identifying, connecting, and citing research with persistent identifiers</a>	<a href="#">Blair Bethwaite and Paul Coddington: Research Cloud NZ</a>	<a href="#">Wallace Chase: Supporting research as a network engineer</a>
17:30 - 18:30 <b>Break</b>				

18:30 - 22:00 **Conference Dinner**  
**Fale Pasifika**

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

Wednesday

8:15 Registration Open  
 8:30 - 10:35 Session: Plenary/Keynote  
 8:30 [Plenary: Liz MacPherson - Unleashing the power of integrated data: how Stats NZ enables safe and responsible research with New Zealand's most trusted data](#)  
 9:30 [Keynote: Barbara Chapman - OpenMP For Exascale](#)

10:35 - 11:00 **Morning Tea**

11:00 - 12:20 Breakout Session 5		
Platforms & Tools	Digital Research / Data Management Skills	Communities and Digital Scholarship
Chair: Nooriyah Lohani Location: Robert Laidlaw Room	Chair: n/a Location: World Champions Room	Chair: n/a Location: Peter Healey Room
11:10 <a href="#">Mark Gray: Using containers in HPC for research workflows</a>		
11:30 <a href="#">Auda Eltahla: Accelerating research through Microsoft Cloud; Implications for Genomics and AI</a>		
11:50 <a href="#">Natasha Punia and Kayleigh Lino: Building a Figshare community: Support &amp; shared resources in pursuit of best RDM practice</a>	<a href="#">Ingrid Mason: The Research Data Movement Challenge – for Research Support Specialists (workshop)</a>	<a href="#">Chris Scott, Alex Pletzer, Wolfgang Hayek, Mandes Schonherr : NeSI Hacky Hour / Bring Your Own Code workshop (Discussion topics also include: code profiling, code optimisation and visualisation)</a>
11:55 <a href="#">Jonney Huang: Earthquake simulation workflow engine on NeSI's new HPC</a>		
12:00 <a href="#">Warrick Corfe-tan: eDNA - Biological Heritage Virtual Hub</a>		
12:05 <a href="#">Alan Tan: A visual recommender framework for exploratory data analytics</a>		
12:10 <a href="#">Jonny Williams: Earth system modelling on the Cray XC50</a>		
12:15 <a href="#">Shiobhan Smith: What is the "inside-out" Librarian?</a>		

12:20 - 12.30 **Conference wrap-up**  
**Location: Robert Laidlaw Room**

12:30 - 13:30 **Lunch**

13:30 - 16:00 Breakout Session 6		
Post-conference meeting	Post-conference meeting	Communities and Digital Scholarship
Location: Robert Laidlaw Room	Location: World Champions Team Room	Location: Peter Healey Room
13:30	Data repositories - An open discussion exploring how we can share knowledge about operations of data portals , our technology stack, etc. Led by Cameron Findlay, Senior Product Owner - data.govt.nz, and Yvette Wharton, eResearch Solutions Lead at the University of Auckland.	<a href="#">Chris Scott, Alex Pletzer, Wolfgang Hayek, Mandes Schonherr : NeSI Hacky Hour / Bring Your Own Code workshop (Discussion topics also include: code profiling, code optimisation and visualisation)</a>
1:30-4pm Research Support Librarians: An open session convened by the NZ Research Support Librarians email group to support sharing, learning and pursuit of collaborative opportunities.		
14:30		

16:00