

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 [Keynote: Tahu Kukutai - Indigenous data sovereignty: Challenges and opportunities in Aotearoa NZ](#)

9:30 [Keynote: Ruby Mendenhall - Using Big Data to Recover Black Women's Lost History](#)

10:30-11:00

Morning Tea

11:00-12:30 Breakout Session 3

Local and Global Developments

Platforms and Tools

Research Data Management

Communities and Digital Scholarship

11:00 Chair: Mark Dietrich
Location: Robert Laidlaw Room

[Michael Uddstrom: The NeSI HPC Compute and Data Analytics Service: New systems, new capabilities, new science](#)

Chair: Brian Flaherty
Location: World Champions Team Room

[Ian Foster: Globus Automate: A distributed research automation platform](#)

Chair: n/a
Location: Peter Healey Room

11:20 [Mark Gray: Current and future directions for HPC at Pawsey Supercomputing Centre](#)

[Dan Sun and Jose Higino: Deploying a globus endpoint in an NZ institution](#)

[Natasha Simons and Kate LeMay: Skilling up in research data management: A crash course for librarians and data stewards \(workshop\)](#)

Chair: n/a
Location: Calder Mackay Room

[Mike Ladd: Open Space Session \(workshop\)](#)

11:40 April Neoh: The changing face of supercomputing

[Globus Birds-of-a-Feather \(BoF\)](#)

12:00

12:30 - 13:30

Lunch

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

13:30 [Wolfgang Hayek: Visualisation capabilities of NeSI's new high performance computers](#)

Chair: Nauman Maqbool
Location: World Champions Room

[Wallace Chase: Why bother with a ScienceDMZ?](#)

Chair: n/a
Location: Peter Healey Room

Chair: Yvette Wharton
Location: Calder Mackay Room

[Mandes Schönherr: A day in the life of NeSI's Apps Support](#)

13:50 [Fabrice Cantos: NeSI and your data: Scalable storage](#)

[Richard Procter: Intelligent network performance metrics](#)

[Natasha Simons and Kate LeMay: Skilling up in research data management: A crash course for librarians and data stewards \(workshop\)](#)

[Nooriyah Lohani: Research Software Engineering \(RSE\)- What's in a name](#)

14:10 [Brian Flaherty: Kicking On: Scaling data services at NeSI](#)

[Vedant Chauhan: Secure audit of clinical registry records using Blockchain](#)

14:30 [Nancy Lin: Insight into the new NeSI Platforms](#)

[Mostafa Sharifi: Application and viability evaluation of RFID battery free sensing technology for digital agriculture](#)

14:50

[Hong Zhang: Digital technologies for primary industrial research](#)

15:10 - 15:30

Afternoon Tea

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 [Steve Knight: Digital Humanities](#)

[Yvette Wharton: Research data repositories and instrument workflows](#)

[Ian Duncan and Nick Jones: \(Inter\)national collaborative research infrastructure strategies](#)

[Nooriyah Lohani: Research Software Engineering \(RSE\) Session](#)

16:30 [Frankie Stevens: Sensitive Data - How do you do yours?](#)

[Natasha Simons: Identifying, connecting, and citing research with persistent identifiers](#)

[Blair Bethwaite and Paul Coddington: Research Cloud NZ](#)

[Wallace Chase: Supporting research as a network engineer](#)

17:30 - 18:30

Break

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

11:10 [Mark Gray: Using containers in HPC for research workflows](#)

11:30 [Auda Eltahla: Accelerating research through Microsoft Cloud; Implications for Genomics and AI](#)

11:50 [Natasha Punia and Kayleigh Lino: Building a Figshare community: Support & shared resources in pursuit of best RDM practice](#)

11:55 [Jonney Huang: Earthquake simulation workflow engine on NeSI's new HPC](#)

12:00 [Warrick Corfe-tan: eDNA - Biological Heritage Virtual Hub](#)

12:05 [Alan Tan: A visual recommender framework for exploratory data analytics](#)

12:10 [Jonny Williams: Earth system modelling on the Cray XC50](#)

12:15 [Shiobhan Smith: What is the "inside-out" Librarian?](#)

Chair: n/a

Location: World Champions Room

[Ingrid Mason: The Research Data Movement Challenge – for Research Support Specialists \(workshop\)](#)

Chair: n/a

Location: Peter Healey Room

[Chris Scott, Alex Pletzer, Wolfgang Hayek, Mandes Schonherr : NeSI Hacky Hour / Bring Your Own Code workshop \(Discussion topics also include: code profiling, code optimisation and visualisation\)](#)

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

13:30

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.

Location: World Champions Team Room

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.

Location: Peter Healey Room

[Chris Scott, Alex Pletzer, Wolfgang Hayek, Mandes Schonherr : NeSI Hacky Hour / Bring Your Own Code workshop \(Discussion topics also include: code profiling, code optimisation and visualisation\)](#)

14:30

16:00