



# eResearch NZ 2020

12-14 February, 2020 | Dunedin Centre

## 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 - Micaela Parker						
12:30 - 13:30		Lunch				
13:30 - 15:10 Breakout Session 1						
<b>Session 1 A</b> Glenroy Auditorium (Plenary)		<b>Session 1 B</b> Conference Room 1	<b>Session 1 C</b> Conference Room 2	<b>Session 1 D</b> Chester Lounge (Breakout Room)	<b>Session 1 E</b> The Terrace (Boardroom)	
13:30 Megan Guidry - Training: It's better together		David Fellingner - Building a Federated Research Collaborative	Miles Benton - Assessing the potential of autonomous AI devices for portable real-time DNA sequencers and deployable sensors	<b>Workshop:</b> Chris Scott - First steps in machine learning with NeSI (part 1)	<b>Workshop:</b> Gabriel Noaje - NVIDIA Accelerated Computing Workshop	
13:50 Ngoni Faya - Genomics Aotearoa Training		Callum Walley - Engineering HPC: What's going on?	Tom Harrop - Reproducible bioinformatics from a users perspective			
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 <b>Lightning talks:</b> Riku Takei - Internationalisation of The Carpentries – Lessons learnt on the way / Matt Bixley - Reproducible Posters: an Otago Theme		Ryan Chard - Automating the Research Data Lifecycle with Globus Automate	Eliatan Niktab - Network-based Nonparametric Tests to Identify Genetic Modifiers of Rare Diseases			
14:50 Christina Hall - Hybrid Training: a scalable Hybrid Training: a scalable model for delivering hands-on training		<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 <b>Birds-of-a-Feather (BoF) Sessions</b>						
<b>Session 2 A</b> Glenroy Auditorium (Plenary)		<b>Session 2 B</b> Conference Room 1	<b>Session 2 C</b> Conference Room 2	<b>Session 2 D</b> Chester Lounge (Breakout Room)	<b>Session 2 E</b> The Terrace (Boardroom)	
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	<b>Workshop:</b> Chris Scott - First steps in machine learning with NeSI (part 2)	<b>Workshop:</b> Gabriel Noaje - NVIDIA Accelerated Computing Workshop	
17:30 - 18:30		End of Day One 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			
	Session 3 A Glenroy Auditorium (Plenary)	Session 3 B Conference Room 1	Session 3 C Conference Room 2	Session 3 D Chester Lounge (Breakout Room)	Session 3 E The Terrace (Boardroom)
11:00	Alexander Ritchie - Humanities Data Untied - An Untapped Resource or just an Untidy Office?	Wolfgang Hayek - Singularity containers on HPC	Rudiger Brauning- GBSathon: Benchmarking reproducibility of Genotyping-By-Sequencing analysis workflows through comparison with SNP chip and pedigree data	<b>Birds of a Feather:</b> Brian Flaherty - Building a national/regional data transfer platform: Globus BoF	<b>Workshop:</b> Daniel O'Byrne - The Basics of Cloud Computing
11:20	Alan McCulloch - Data Pipelines and Prisms	Lahiru Ariyasinghe - 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/ Matt Bixley - Naive Prediction of Cancer Outcomes using Machine Learning		
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 genome of a taonga species		
12:00	Shiobhan Smith - Uniting equipment and research publications: bigger than Ben Hur?	Chris Hines - Strudel2: Increasing accessibility of HPC Infrastructure			
12:20 - 13:30		Lunch			
13:30 - 15:10		Breakout Session 3			
	Session 4 A Glenroy Auditorium (Plenary)	Session 4 B Conference Room 1	Session 4 C Conference Room 2	Session 4 D Chester Lounge (Breakout Room)	Session 4 E The Terrace (Boardroom)
13:30	Lisa Thomasen - 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	<b>Workshop:</b> Blair Bethwaite - Containers in HPC Tutorial (part 1)	
13:50	Brian Flaherty - Where Data Lives: NeSI, taonga and growing repository services.	Jeff Zais - Worldwide Trends in Computer Architectures for Data Science	Vladimir Mencl - 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		
14:30	Sander Zwanenburg - Otago's Network for Engagement And Research: Mapping Academic Expertise and Connections	April Neoh - Beyond super	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 Bartonicek - 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			
15:30	Jonny Flutey - Micro-credentials and Research Skills Development	Jana Makar - Growing the eResearch workforce in an inclusive way	Anton Angelo - All Research Questions Are Ethical Questions	<b>Workshop:</b> Blair Bethwaite - Containers in HPC Tutorial (part 2)	
19:00 - 22:00		End of day 2 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			
Session 5 A Glenroy Auditorium (Plenary)		Session 5 B Conference Room 1	Session 5 C Conference Room 2	Session 5 D Chester Lounge (Breakout Room)	Session 5 E The Terrace (Boardroom)
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?	<b>Workshop:</b> Shiobhan Smith - United in data management: Is it time for a national research data management framework?
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	
11:40		Jo Lane - Scientific supercomputing: Teaching practical skills for credit	Carina Kemp - Building an International FAIR Infrastructure for 'Uniting' Research Data	Cheng-Hao Cai - Building Machine Learning Systems on microsoft Azure Cloud Machines	
12:00		Matt Plummer - Running Rāpoi: Rebooting Research Computing & Support at VUW	joep de Ligt - Making Genomics Fair	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			
Session 6 A Glenroy Auditorium (Plenary)		Session 6 B Conference Room 1	Session 6 C Conference Room 2	Session 6 D Chester Lounge (Breakout Room)	Session 6 E The Terrace (Boardroom)
13:30		Nooriyah Lohani - Research Software Engineering Community update and next steps in New Zealand	Joep De Ligt - Scalable Workflows and Reproducible Data Analysis (for Genomics)	Carina Kemp- Data movement challenges to research productivity - examples and responses	Alexis Tindall - Humanities, Arts and Social Sciences: What have we learned, where are we going?
End of day 3					