

eResearch NZ 2021

10-12 February, 2021 | Wellington

Wednesday 10 February

9:00	Registration Open			
9:45 - 11:30	Session: Conference Opening and Keynote			
9:45	Mihi			
10:00	Conference Welcome Address - Hon. Dr Ayesha Verrall, Associate Minister of Research, Science and Innovation			
10:30	Keynote 1 - Sydney Shep			
11:30 - 12:30	Lunch			
12:30 - 12:50	Gold sponsor HPE: David Honey - Staying ahead of the data deluge			
13:00 - 15:00	Session 1 A	Session 1 B	Session 1 C	Session 1 D
	Lecture Theatre (Plenary) - TTRLT1	Flexi Learning Space 1 - TTR205	Flexi Learning Space 2 - TTR104	Meeting Room - TTR106
	Session chair: Milk Black	Session chair: Dinindu Senanayake	Session chair: Vlad Mendl	
13:00	Laura Armstrong - Towards an institution-wide Research Data Management Framework	Murray Cadzow - Otago Bioinformatics Spring School	Kyle Chard - funcX: Managed and Federated FaaS for Research	IN PERSON ONLY - Pre-registration required for Research
13:20	Jun Huh - Taonga: building a data repository for genomics research in New Zealand	Dinindu Senanayake, Ngoni Faya - Paving the way for Bioinformatics excellence in New Zealand	Vlad Mendl - Deploying secure and scalable VPN connections with eduVPN	Maxime Rio - Machine Learning on NeSI 101
13:40	Jymal Morgan - Our learning journey and charting a new path forward with Maori - Challenges & Opportunities	Brook O'Reilly - Automating the grunt work out of epigenetics research	Ian Foster - Gladier: A Programmable Data Capture, Storage, and Analysis Architecture for Experimental Facilities	
14:00	Mini break			
14:10	Discussion (50 minutes) - Te Ao Māori in eResearch	Lightning talk - Janet Stacey - SorTR (Automated Reference DNA Analysis and Rework selection)	Lightning talk - Nicole Nogoy - GigaByte: A New Workflow for Rapid Dissemination of Datasets & Tools-Bringing Papers to Life	IN PERSON ONLY - Pre-registration required
14:20		Jonathan Reshef - 3D Virtual Atlas of the Uterus	Brian Flaherty and Richard Tumaliuan - Moving data: getting up to speed with Globus and Science DMZ	Maxime Rio - Machine Learning on NeSI 101 (continued)
14:40		Krish Chaudhuri - Patient-specific computational modelling for optimal coronary artery bypass grafting design in cardiac surgery patients		
15:00 - 15:20	Afternoon Tea			
15:20 - 15:40	Gold Sponsor Microsoft: Felipe Ayora - Turbocharge your analyses and shortcut access to research data			
15:50 - 16:50	Birds-of-a-Feather (BoF) Sessions	Session 2 B	Session 2 C	Session 2 D
	Lecture Theatre (Plenary) - TTRLT1	Flexi Learning Space 1 - TTR205	Flexi Learning Space 2 - TTR104	Meeting Room - TTR106
15:50	IN PERSON ONLY BoF Richard Dean, Linley Jesson and Alan Tan - Data Science at Crown Research Institutes	IN PERSON ONLY BoF Hannah Edwards - REANNZ Connect - BoF session	Virtual BoF Jana Makar - Challenge Accepted: Responding to community feedback for supporting diversity in HPC & eResearch	IN PERSON ONLY - Pre-registration required Maxime Rio - Machine Learning on NeSI 101 (continued)
17:30 - 18:30	End of Day One Welcome Function			

Thursday 11th February

9:00	Registration Open			
9:30 - 10:30	Session: Plenary/Keynote			
9:30	Keynote 2 - Joep de Ligt & Shaun Hendy			
10:30-11:00	Morning Tea			
11:00-12:20	Session 3 A	Session 3 B	Session 3 C	Session 3 D
	Lecture Theatre (Plenary) - TTRLT1	Flexi Learning Space 1 - TTR205	Flexi Learning Space 2 - TTR104	ONLINE WORKSHOP
	Session chair: Richard Dean	Session chair: Louis Ranjard	Session chair: Brian Flaherty	
11:00	Maxime Rio - Data science consultancies at NeSI: a whirlwind tour of case studies	Istvan Hajdu - Data-driven horticulture	Matthew Bellgard - eResearch@QUT: Reflections on the implementation of an institution-wide strategy	ONLINE ONLY - Pre-registration required
11:20	Mik Black - Building a(n) (almost) sustainable institutional training culture	Louis Ranjard - High-Throughput Phenotyping for the Orchard	Dr Steven Manos - ARCOS: Findings from a roadmap to establish a national capability for containers	Simon Gladman & Gareth Price - Galaxy Australia Workshop - showcasing a Leveling Up data analysis and training platform
11:40	Laura Armstrong - ResBaz 2020 - the lollie-scramble. What can we learn from the experience?	Alan, Yu Shyang Tan - Looking at Forestry from a Digital Lens	Lightning talk - Ryan Fraser - SciDataMover: Reliable, secure data movement for Australian Researchers	
12:00	Richard Dean - Data Science Accelerator Level 2 - Power-up or reboot?	Alvaro Orsi - The role of temperature control in the kiwifruit cool chain revealed by Artificial Intelligence	Level UP – increasing collaboration across Australia's Digital Data and eResearch Platforms (DDeRP) - Rosie Hicks, Heath Marks, Sean Smith, Mark Stickells, Chris Hancock	
12:30 - 13:30	Lunch			
13:30 - 15:20	Session 4 A	Session 4 B	Session 4 C	Session 4 D
	Lecture Theatre (Plenary) - TTRLT1	Flexi Learning Space 1 - TTR205	Flexi Learning Space 2 - TTR104	ONLINE WORKSHOP
	Session chair: Miles Benton	Session chair: Georgina Rae	Session chair: Robin Bensley	
13:30	Chris Scott - GPUs on NeSI	J Max Wilkinson - ARDC Data Retention Project: Building the Foundation of Impact in eResearch Infrastructure	Brian Minihan - ORCID Data Dashboard: A Snapshot of NZ Research	ONLINE ONLY - Pre registration required
13:50	Leah Kemp - The path to growing New Zealand's clinical genomics capacity	Georgina Rae - Building Partnerships for eResearch	Lev Lafayette - Interactive HPC Computation with Open OnDemand and FastX	Simon Gladman & Gareth Price - Galaxy Australia Workshop - showcasing a Leveling Up data analysis and training platform (continued)
14:10	Miles Benton - Harnessing the disruptive nature of cheap, portable technology for community empowerment	Wolfgang Hayek - NeSI Consultancies - Evolving a Scientific Programming Service	David Fellingner - A Survey of iRODS Rules to Enforce Site Policies and Enable Automated Workflows	
14:30	Mini break			
14:40	Andrea Goethals - Digital collecting vs. digital research - Are they compatible?	Danu Poyner - Just Add Context: Levelling up analysis with Dimensions on Google BigQuery	Albert Savary - Software on NeSI	ONLINE ONLY - Pre registration required
15:00	Jonny Williams - Creating a living archive of Aotearoa New Zealand's climate model data	Jeff Zais - Taking Advantage of Technology Innovations in the Next Generation of NeSI HPC Infrastructure	Ingrid Mason - AUNZ AI4LAM - Research Collaboration	Simon Gladman & Gareth Price - Galaxy Australia Workshop - showcasing a Leveling Up data analysis and training platform (continued)
15:20	Jelena Cosic - Climate, Weather, and Avocados	Callum Walley - Virtual Desktops for HPC	Robin Bensley - Staying connected in an evolving eResearch ecosystem	
15:40 - 16:00	Afternoon Tea			
16:00 - 17:30	Session 5 A	Session 5 B	Session 5 C	Session 5 D
	Lecture Theatre (Plenary) - TTRLT1	Flexi Learning Space 1 - TTR205	Flexi Learning Space 2 - TTR104	Meeting Room - TTR106
16:00	IN PERSON ONLY BoF Georgina Rae - FAIR for Research Software (1 hr)	IN PERSON ONLY BoF Megan Guidry - Sowing the seeds of capability: Experience what Carpentries instructor training is all about (1 hr)	Virtual BoF Lucy Guest - Digital outreach – communications in a post-Covid world	Virtual BoF Natasha Simons - If you liked it then you shoulda put on a PID on it (1 hr)
19:00 - 22:00	End of day 2 Conference Dinner			

Friday 12th February

9:00	Registration Open			
9:30 - 10:30	Session: Plenary/Keynote			
9:30	Panel Discussion - Leveling Up! Where to from here?			
10:30 - 11:00	Morning Tea			
11:00 - 12:20	Session 6 A	Session 6 B	Session 6 C	Session 6 D
	Lecture Theatre (Plenary) - TTRLT1	Flexi Learning Space 1 - TTR205	Flexi Learning Space 2 - TTR104	ONLINE WORKSHOP
	Session chair: Nike Jones	Session chair: Miles Benton	Session chair: Matt Plummer	
11:00	Carl Olsen - REANZ Update - Moving data, mobilising knowledge	Brent Martin - Starting an eResearch revolution with Deep Learning	Frankie Stevens - AARNet's Sensitive Data Service Journey	ONLINE ONLY - Pre-registration required
11:20	Nick Jones – Future of eResearch	Nathan Russell - Deep learning in a clinical context: the big picture from "big data"	Tiff Nelson - The Australian BioCommons Community Engagement Strategy: Challenge and Solution Examples from Genomic Communities	Sara King - Jupyter Notebooks for absolute beginners
11:40	Discussion session - Future of eResearch	Neelash Rampal - Regional Downscaling of Climate Data using Deep Learning and Applications for Drought / Rainfall Forecasting	Gareth Price - Galaxy Australia - an analysis, upskilling and collaborative platform for the life sciences	
12:00		Richard Sinnott - An Exploration of Social Media Analytics Solutions for Diverse Application Domains	Rob Elshire - GFANZ Public Bioinformatics Platform	
12:20		Lightning talk - José Filipe Gonçalves Higinio - Coaching great practices of describing a problem	Lightning talk - Stefanie Kethers - The Research Data Alliance – A Global Collaboration Forum to Tackle Data Challenges	
12:30 - 13:30	Lunch			
13:30 - 14:30	Session 7 A	Session 7 B	Session 7 C	Session 7 D
	Lecture Theatre (Plenary) - TTRLT1	Flexi Learning Space 1 - TTR205	Flexi Learning Space 2 - TTR104	Meeting Room - TTR106
13:30	IN PERSON ONLY BoF Blair Bethwaite - Embracing cloud-native architectures: What's been done & what's next (1 hr)	IN PERSON ONLY BoF Alexander Pletzer - Who needs research software engineers?		Virtual BoF Liz Stokes - ResBaz: Joining the dots for sustainable community effort
14:30	Conference wrap-up			