

AOTEAROA eResearch^{NZ}



*This preliminary conference programme is subject to minor changes as determined by the conference programme committee.

Tuesday Feb 11

9:00	Registration Open		
10:00 - 12:30	Session: Conference Opening and Keynote		
10:00	Mihi		
10:10	Conference Welcome Address		
10:30	Keynote 1		
11:30	Keynote 2		
12:30 - 13:30	Lunch		
13:30 - 15:00			
	Session 1 A	Session 1 B	Birds of a Feather session
	ROOM TBC Chair:	ROOM TBC Chair:	ROOM TBC
13:30	Population Simulation to Optimise Study Designs and Estimate Polygenic Disease Risk/Resilience in Aotearoa Māori Populations - Alastair Lamont (University of Otago)	Responsive Research Security - Michael Karich (UoA/NeSI)	BoF: Continuing the research data count and what's next? - Ai Lin Soo (UNSW), Claire Rye(NeSI), Rhys Francis (Australian Biocommons), Nick Jones (NeSI)
13:50	From Static to Dynamic: LivePublication and the Quest for Reproducible, Living Articles - Augustus Ellerm (UoA)	Driving Digital Research in Australasia with the Nectar Research Cloud - Bernard Meade (ARDC)	
14:10	The Impact of AI Technologies on eResearch and Data Centre Design - Andrew Kirker (CDC)	Out of the squares and into the circles: Visualising Ecological Interactions with Circos - Senzo Miya (MWLR)	
14:30	Why we ditched shiny in favour of react - Richard Dean (ESR)	Flexin for three years. An update on AgResearch's eResearch Infrastructure refresh with FlexiHPC - Ben Taylor (AgResearch)	
14:50 - 15:20	Afternoon Tea		
15:20 - 17:30			
	Session 2 A	Session 2 B	Birds of a Feather session
	ROOM TBC	ROOM TBC Chair: Vlad Mencl	ROOM TBC
15:20	BoF: Maturing research data management (RDM) and enabling good data management planning practices - Yvette Wharton (UoA), Laura Armstrong (UoA), Sarah Hopkins (UoA), Mark Gahegan (UoA), Richard Hartshorn (UC), David Medyckj-Scott (MWLR), Claire Rye (NeSI) - Part 1	Changes to Digital Identity Concepts and the implications for eResearch - David Brownlie (REANNZ)	BoF: The Carpentries Pinball Arcade: an immersive game with a training community - Sara King (AARNET), Liz Stokes (ARDC), Murray Cadzow (University of Otago), Nisha Ghatak (NeSI)
15:40		The State of Open Data, Data Citation and Reuse - Anthony Dona (Digital Science)	

16:00	The many talents of leadership in open science & open source projects - Jonah Duckles (Organizational Mycology)	
micro-break		
16:30	BoF: Research Security - Michael Karich (UoA), Jamie Hart (UC)	Leveraging Computer Vision and Hybrid Transfer Learning for Deceased Bird Species Classification - Zhuo Tang (ESR, UC)
16:50		Evolution of Digital Research Infrastructure at University Technology Sydney: Harnessing the Power of Digital Science Solutions - Stephanie Guichard (Digital Science)
17:10		Lightning talks Service Management by Stealth - Georgina Rae (NeSI) eResearch in an Age of Austerity - Wes Harell (MWLR) Investigating the advantages and disadvantages of available open-source frameworks for prototyping data-based applications - Rebekah Au (ESR, UC)
End of Day One		
17:30 - 18:30	Welcome Function	
Wednesday Feb 12		
8:30	Registration Open	
9:00 - 10:30	Session: Plenary/Keynote	
9:00	Housekeeping	
9:10	Keynote 3	
10:10	Panel	
10:30-11:00	Morning Tea	
11:00-12:20	Session 3 A	Session 3 B
	ROOM TBC Chair:	ROOM TBC Chair: Vlad Mencl
11:00	Aotearoa Genomic Data Repository: the journey to a production repository...and beyond! - Prof Mik Black (Genomics Aotearoa)	Streamlining a National Flood Assessment using a Flow Scheduler - Alice Harang (NIWA)
11:20	Grass roots data management support at Plant & Food Research - Briget Lander (Plant and Food Research)	Innovation through diversity, how we adapt and evolve - Jun Huh (NeSI)
11:40	Setting up a Data Science Core Facility from scratch - Hercules Konstantopoulos (Malaghan Institute of Medical Research)	Globus Compute: Federated FaaS for Integrated Research Solutions - Ryan Chard (Argonne National Laboratory)
12:00	Research Data Management for Research Programs – time to evolve our practices - David Medyckyj-Scott (MWLR)	Nectar in New Zealand: Seven Years On - Sean Matheny (UoA)
12:20	Following the yellow brick road - our Research Data services journey - Yvette Wharton (UoA)	Hybrid HPC: can we finally manage our data easily and consistently between on-prem and cloud? - Jon Tinberg (Xenon Systems)
12:40 - 13:40	Lunch	
13:40 - 15:20	Session 4 A	Session 4 B
	ROOM TBC Chair:	ROOM TBC Chair:
13:40	Integrating information flow control within programming languages and operating systems to effect data sovereignty tracking - David Evers (University of Otago)	Opportunities in Horizon Europe for NZ eResearch - John Cater (MBIE)
		BoF: How can institutions enable researchers to use AI in conducting research appropriately and confidently? - Laura Armstrong (UoA), Kyle Hemming (UoA), Rina Hannaford (AgResearch), Brent Martin (MWLR)

14:00	The "s" in "eResearch" Stands for Security - Sean Matheny (UoA)	A future for publicly funded eResearch infrastructure - Amber McEwen (REANNZ)	
14:20	Building a Secure Research Environment - Yvette Wharton (UoA)	Rebasing your infrastructure and making new friends along the way - Nick Jones (NeSI)	
14:40	Challenges of Secure File Transfer in Collaborative Research - Yeshaswini Ramesh (REANNZ)	Introducing UC's new Research Platform - Jamie Hart (University of Canterbury)	
15:00 - 15:30	Afternoon Tea		
15:30 - 17:30			
	Session 5 A	Session 5 B	Birds of a Feather session
	ROOM TBC Chair:	ROOM TBC Chair:	ROOM TBC
15:30	Teaching HPC Bioinformatics to Researchers: The University of Melbourne Experience - Lev Lafayette (University of Melbourne)	Assessing the support for scientific claims using generative and general AI - Mark Gahegan (UoA)	BoF: Petabyte Partnerships: Managing Data for a Collaborative Science Future - Ben Taylor (AgResearch)
15:50	What Really Drives Bioinformatic Tool Accuracy? - Paul Gardner (University of Otago)	From Cloud to HPC and back again –migration, rebasing and upcycling of NeSI's platforms - Blair Bethwaite (NeSI)	
16:10	Reflecting on a Nationwide Bioinformatics Training Programme - Tyler McInnes (Genomics Aotearoa)	HPC for Quantum Simulation: Challenges and Learnings - Peter McGonigal (Xenon Systems)	
18:30 - 22:00	End of Day Two Conference Dinner		
Thursday Feb 13			
8:30	Registration Open		
9:00 - 11:00	Session: Plenary/Keynote		
9:00	Housekeeping		
9:10	Keynote 4		
10:00	Keynote 5		
11:00 - 11:30	Morning Tea		
11:30 - 12:30			
	Session 6 A	Session 6 B	Birds of a Feather session
	ROOM TBC Chair:	ROOM TBC Chair:	ROOM TBC
11:30	Building the Future of the RSE-AUNZ Community: Opportunities, Strategy, and Engagement - Mercedes Randell (NeSI)	My Preciousss - Making sensitive metadata resilient - Tom Laurenson (UoA), Chris Seal (UoA)	BoF: Celebrating diversity in High Performance Computing: A spotlight on WHPC+ Australasia - Jana Makar (NeSI), Aditi Subramanya (Pawsey), Emily Barker (UWA), Linda McIver (ADSEI), Carina Kemp (AWS), Kiowa Scott-Hurley (Independent), Kerri Wait (Independent)
11:50	Modernising Scientific Software and Workflows for Earthquake Hazard Research - Jake Faulkner (UC)	Deep diving into deep learning and AI: experiences and lessons learned - Brent Martin (MWLR)	
12:10	Containerisation to enable binary portability – A use case from climate research - Alexander Pletzer (NeSI/NIWA)	From Geological Supercomputers to fast melting Glaciers, how NeSI is embracing a different melting point - Jun Huh (NeSI)	
12:30	Digging Deep: An attempt to model groundwater quality with land use and more - Alice Zhao (ESR / University of Canterbury)	Expanding Cluster Access: Integrating Open OnDemand with Otago's Research and Teaching - Murray Cadzow (University of Otago)	
12:50	Learning from Industry Data Science Platforms: A Leapfrog Opportunity for eResearch in Aotearoa - Adrian Torrie (Xenon)	Lightning talks - Exploring NeSI's Cloud-Based OpenOnDemand Training Environment: A Quick Demo - Kahu Anderson (NeSI) - Harvesting Data: AgYields database a tool to support the New Zealand Agriculture Sector - Carmen Teixeira (Lincoln University)	
13:00 - 14:00	Lunch		
14:00 - 15:00	Birds-of-a-Feather (BoF) Sessions		
	Session 7 A	Session 7 B	Birds of a Feather session

	ROOM TBC	ROOM TBC	ROOM TBC
14:00	BoF: The Case for Open Source in Aotearoa (a continuing conversation) - Richard Littauer (VUW), Jonah Duckles (Organizational Mycology)	BoF: Shaping our conferences - eResearch conferences in Aus and NZ moving forward - Luc Betbeder (AeRO)	BoF: Maturing research data management (RDM) and enabling good data management planning practices - Yvette Wharton (UoA), Laura Armstrong (UoA), Sarah Hopkins (UoA), Mark Gahegan (UoA), Richard Hartshorn (UC), David Medyckj-Scott (MWLR), Claire Rye (NeSI) - Part 2
15:00	Conference wrap-up Closing remarks		