AI Meeting Programme

Tuesday 2 September – Wednesday 3 September, 2025 Te Pae, Christchurch, New Zealand

Tuesday 2 September				
Time	Details	Location		
7.30am-8.00am	Mihi Whakatau	Conway C5		
	Registration required			
	Please wait outside the room until you are invited in			
8.00am-8.15am	Comfort break			
	Introductory remarks			
8.15am-8.30am	Convenors	Conway C2		
	Data sovereignty	•		
8.30am-9.00am	Dr. Karaitiana Taiuru (Al01)	Conway C2		
	Taiuru & Associates			
	Māori AI & Data Sovereignty: Embedding Values.			
	AI in Health session I			
	Chaired by Craig Herbold (UC)			
9.00am-9.30am	Ms. Lisa Wong & Mr. Nathan Baker (AI02)	Conway C2		
	University of Auckland	′		
	The AI in Health Research Network			
9.30am-10.00am	Dr. Sandra Hanchard (Al03)	Conway C2		
	University of Auckland			
	Exploring Al-mediated patient and provider			
	relationships: a study protocol for codesign with			
	Pacific heart failure patients			
10.00am-10.30am	Morning Tea	Exhibition Hall E1+E2		
	Al Infrastructure for Research			
	Chaired by Jack Flanagan (University of Auckland)			
10.30am-11.00am	Prof. Mengjie Zhang (AI04)	Conway C2		
10.504111 11.004111	Victoria University	Conway C2		
	Artificial Intelligence Research, Key Applications, and			
	Infrastructures at VUW			
11.00am-11.30am	Nick Jones ()	Conway C2		
11.00a111-11.30a111	NeSI	Conway C2		
	Title			
11.30am-12.00pm	Sir Peter Gluckman ONZ KNZM FRS (AI05)	Conway C2		
11.50am-12.00pm	Koi Tū: Centre for Informed Futures	Conway C2		
12.00 1.20	Whither artificial intelligence: implications for science	F.,b;b;b;b;c,c, U,c,ll, E4 , E2		
12.00pm-1.30pm	Lunch	Exhibition Hall E1+E2		
	Al and Molecule Discovery			
4.20 2.00	Chaired by Jack Flanagan			
1.30pm-2.00pm	Assoc. Prof. Jack Flanagan (Al06)	Conway C2		
	University of Auckland			
	Chemical space travel connects patients to early stage			
	drug discovery science.			

2.00pm-2.30pm	Dr. Lauren May (Al07)	Conway C2	
	Monash University	,	
	Computational Approaches for Small Molecule Drug		
	Discovery		
2.30pm-3.00pm	Prof. Natarajan Kannan (Al08)	Conway C2	
	University of Georgia		
	Protein function prediction and classification using		
	language models		
3.00pm-3.30pm	Dr. Binh Nguyen (Al09)	Conway C2	
	Victoria University		
	Beyond SMILES: A Multimodal Approach for Enhanced		
	Molecular Property Prediction		
3.30pm-4.00pm	Afternoon Break	Exhibition Hall E1+E2	
	Al and the environment		
Chaired by Craig Herbold (University of Canterbury)			
4.00pm-4.30pm	Dr. Brent Martin (Al10)	Conway C2	
	Bioeconomy Science Institute		
	From wetlands to wildings: the use of deep learning		
	softmax probabilities for environmental monitoring.		
4.30pm-5.00pm	Dr. Andrew Lensen (Al11)	Conway C2	
	Victoria University		
	Recognising Taonga with AI: Facial Recognition for		
	Kākā Conservation Management		
5.00pm-5.30pm	A/Prof. Marwan Katurji (Al12)	Conway C2	
	University of Canterbury		
	The role of artificial intelligence in weather system and		
	microclimate research in Antarctica		
6.00pm-8.30pm	Poster Session	Exhibition Hall E1+E2	
6.00pm-8.00pm	Evening Social Function	Exhibition Hall E1+E2	
	Sponsored by Decode Science		

Wednesday 3 September			
Time	Details	Location	
Al and Applied Biology			
Chaired by Bjorn Oback (New Zealand Institute for Bioeconomy Science)			
8.00am-8.30am	Prof. Bing Xue (Al13)	Conway C2	
	Victoria University		
	Artificial Intelligence for Aquaculture		
8.30am-9.00am	Dr. Julie Blommaert (Al14)	Conway C2	
	New Zealand Institute for Bioeconomy Science		
	Machine learning to identify genetic growth variants		
	in snapper		
9.00am-9.30am	Prof. Allen Rodrigo (Al15)	Conway C2	
	University of Auckland		
	TaxonGPT: Taxonomic Classification Using Generative		
	Artificial Intelligence		

9.30am-10.00am	Dr. Marlon Reis (Al16)	Conway C2
J.50am 10.00am	AgResearch	Conway C2
	When AI meets two outlaws: Exploring interactions in	
	biological systems, non-invasively.	
10.00am-10.30am	Morning Tea	Exhibition Hall E1+E2
	Health Data and Ethics	
	Chaired by Arthur Morley-Bunker (University of Otago	p)
10.30am-11.00am	Prof. Gillian Dobbie (Al17)	Conway C2
	University of Auckland	
	Designing for Dependability: Embedding Reliability	
	and Robustness in AI Systems	
11.00am-11.30am	Prof. Robyn Whittaker (Al18)	Conway C2
	University of Auckland	
	AI Research in Health NZ Te Whatu Ora	
11.30am-12.00pm	Dr. Fiona Callaghan (Al19)	Conway C2
	Public Health Agency	
	Artificial Intelligence and public health policy: a	
	measles modelling case study	
12.00pm-1.00pm	Lunch	Exhibition Hall E1+E2
	AI in Health session II Chaired by Craig Herbold (UC)	
1.00pm-1.30pm	Dr. Wenting Liu (AI20)	Conway C2
,	University of Canterbury	
	Machine Learning Unravel Gene Signatures of	
	Coronary Artery Disease Comorbidity with	
	Periodontitis	
1.30pm-2.00pm	Mr. Desalegn Yibeltal Reta (Al21)	Conway C2
	University of Auckland	
	AI-Based Drug-Drug Interaction Prediction: A Scoping	
	Review of Model Robustness, Clinical Relevance, and	
	Implementation Challenges	
2.00pm-2.30pm	Dr. Theo Portlock (AI22)	Conway C2
	Auckland University	
	Rethinking refeeding: Can the neurocognitive	
	developmental delays associated with childhood	
	undernutrition be reversed?	
2.30pm-3.00pm	A/Prof. Sarah Cullum and Prof. Gillian Dobbie (AI23)	Conway C2
	University of Auckland	
	Using machine learning with routinely collected health	
	data for identification of dementia risk in Aotearoa	
	New Zealand	
3.00pm-3.30pm	Afternoon Break	Exhibition Hall E1+E2
	Al and Biology/Imaging	ı
	Chaired by Arthur Morley-Bunker (University of Otago	
3.30pm-4.00pm	Dr. Davide Mercadante (Al24)	Conway C2
	The University Of Auckland	
	AI-based implementation of NMR-guided potentials	
	for dramatically coarse-grained protein simulations.	
4.00pm-4.30pm	Mr. Lachlan Barnes (Al25)	Conway C2
	University of Auckland	

	Bridging Clinical and Consumer	
	Electroencephalography: A Transfer Learning	
	Approach for Artifact Detection	
4.30pm-5.00pm	Stuart Chambers (AI26)	Conway C2
	University of Otago, Christchurch	·
	Real-Time, Label-Free Assessment of hPSC Quality	
	Using AI-Powered Cell Counting and Colony	
	Morphology Analysis	
	QRW Panel Discussion & Plenary Lecture	
5.30pm-5.40pm	Introduction	Auditorium A3+A4
5.40pm-6.25pm	Panel Discussion on Aotearoa New Zealand's future	Auditorium A3+A4
	research, science & innovation sector	
	(moderated by Dr Marie Bradley)	
	Sir Peter Gluckman ONZ KNZM FRSNZ, University of	
	Auckland	
	Professor Emily Parker FRSNZ, Victoria University of	
	Wellington	
	Mark Piper CEO, Plant & Food Research	
	Professor David R. Grattan FRSNZ, University of Otago	
6.30pm-7.40pm	QRW Plenary Lecture	Auditorium A3+A4
	Sponsored by Mediscope International Limited	
	Prof. Tak Mak	
	Princess Margaret Cancer Centre, University of	
	Toronto and Centre of Oncology and Immunology,	
	University of Hong Kong	
	Beyond immune checkpoint blockade: emerging	
	strategies	
7.45pm-9.30pm	Evening Social Function	Exhibition Hall
	Sponsored by Thermo Fisher Scientific	
	Drinks and nibbles	
	The Great QMB Trivia Night with Pierre de Cordovez	