Aisling Lilian Rayne

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3 Google Scholar

R^G ResearchGate

Expertise

conservation genomics \bullet biocultural diversity \bullet data sovereignty \bullet bioinformatics \bullet freshwater ecology \bullet Kindness in Science

Professional experience

University of Canterbury

2021-present Research Associate (Conservation Genomics)

School of Biological Sciences

2017-2020 Lab Demonstrator

School of Biological Sciences

2019 Teaching Assistant

School of Educational Studies and Leadership

CENTRE FOR SUSTAINABILITY, UNIVERSITY OF OTAGO

2021-present Key Researcher

Kindness in Science project, Te Pūnaha o Matatini (pending)

Education

PHD in Biological Sciences, University of Canterbury (pending graduation in April 2022)

BSc(Hons, 1st Class) in Biological Sciences, University of Canterbury

BSc in Ecology, University of Canterbury

Services & affiliations

^{2021-present} Technical Advisor, **Te Pātaka a Tahu (MABx)**, Te Rūnanga o Ngāi Tahu

2020-present Member, High Quality Genomes and Population Genomics, Genomics Aotearoa

2020-present Member, Technical Advisory Group on Regenerative Farming Practices, Ministry for Primary

Industries

2019-present Member, Te Pūnaha Matatini Whānau, Te Pūnaha Matatini

2017–2020 Executive Member, Student Volunteer Army, University of Canterbury

Awards

Bioheritage COVID-19 Extension Scholarship

Roper Doctoral Scholarship for top-ranked domestic applicant in Science at UC

2017	UC Annual Biology Conference Best BSc/BSc(Hons) Presentation
2017	Todd Foundation Award for Excellence
2016	University of Canterbury Senior Scholarship
2016	LIC Patrick Shannon Scholarship
2016	Canterbury Branch New Zealand Federation of Graduate Women Trust Award
2015	UC Pilgrim Prize UC Emerging Leaders Development Program
2014 2014	UC Undergraduate Entrance Scholarship
2013	Orion Selwyn District Centenary Educational Trust Scholarship
2013	Darfield High School Parent Teacher Student Association Prize for Dux
	Research grants (contributing researcher)
2021-2023	Vision Mātauranga Capability Fund (Connect), Ministry of Business, Innovation and Employment (\$250K awarded to Te Rūnanga o Ngāi Tahu)
2021-2023	Māori Agribusiness Extension (MABx) Phase I, Ministry for Primary Industries (\$60K awarded to Te Rūnanga o Ngāi Tahu)
2019-2020	Research Linkages Seeding Grant, College of Science, UC (\$20K awarded to TE Steeves)
2017	Data Deficient Research Grant, Department of Conservation (\$3.8K awarded to TE Steeves)
	Publications & talks
	Peer-reviewed articles
2020	Rayne A, Byrnes G, Collier-Robinson L, Hollows J, McIntosh A, Ramsden M, Rupene M, Tamati- Elliffe P, Thoms C, Steeves TE. Centring Indigenous knowledge systems to re-imagine conservation translocations. <i>People and Nature</i> . 2: 512–526. [DOI] [PDF]
2019	Collier-Robinson L, Rayne A, Rupene M, Thoms C, Steeves TE. Embedding indigenous principles in genomic research of culturally significant species: a conservation genomics case study. <i>NZ Journal of Ecology.</i> 43: 3389. [DOI] [PDF]
	Pre-prints $\mathring{\sigma}$ Papers in Preparation/Review/Revision
In Review	Rayne A , Blair S, Dale M, Flack B, Hollows J, Moraga R, Parata RN, Rupene M, Tamati-Elliffe P, Wehi PM, Wylie MJ, Steeves TE. Weaving place-based knowledge for culturally significant species in the age of genomics: Looking to the past to navigate the future. <i>Evolutionary Applications</i> .
In Revision	Collier-Robinson L, Rayne A , Hudson M, Stott MB, Steeves TE. Realising benefits for Indigenous Peoples in genomic research of culturally significant species. <i>Nature Genetics</i> .
2021 pre-print	Forsdick N, Adams CI, Alexander A, Clark AC, Collier-Robinson L, Cubrinovska I, Croll Dowgray
	M, Dowle E, Duntsch L, Galla SJ, Howell L, Magid M, Rayne A, Verry AJF, Wold J, Steeves TE.
	Current applications and future promise of genetic/genomic data for conservation in an Aotearoa New Zealand context. <i>EcoEvoRxiv</i> . [DOI]
2021 pre-print	Parker KA, Ewen JG, Weiser EL, Rayne A, Steeves TE, Seddon PJ, Armstrong DP. Contempo-
F	rary conservation translocations are foundational to Predator-Free aspirations in Aotearoa New Zealand: a review. <i>EcoEvoRxiv</i> . [DOI]
	Other forms of dissemination
2021	Interview for RNZ's Our Changing World podcast Collaborating to move freshwater species [HTML]
2021	Invited article for Wiley Centring Indigenous ways of knowing to enhance resilience [HTML]
2020	The Conversation When rehoming wildlife, Indigenous leadership delivers the best results [HTML]

2020	Bioheritage student blog How can we best use genomics to enhance conservation translocations? [HTML]
2019	Securing sustainable kai: a conservation genomics approach for UC annual Research Report [PDF]
2019	Featured in UCMe campaign for the University of Canterbury [HTML]
2019	Contributed to expert commentary on new biodiversity strategy Te Koiroa O Te Koiora
2019	Bioheritage blog Cutting-edge technology to help mahinga kai species [HTML]
	Selected talks
2021	invited virtual talk on Applied Genomics & NZ Indigenous Engagement, AGTA. [watch online]
2021	invited virtual talk Enhancing biocultural resilience in a mahinga kai species-at-risk. IAGLR, Canada.
2020	Re-imagining conservation translocations through Two-Eyed Seeing. Hawai'i Conservation Alliance.
2019	Have your kēkēwai and eat it too: Bridging species and ecosystem recovery. New Zealand Ecological
	Society Conference, Lincoln University.
2019	New knowledge, old legislation: An integrative approach for enhancing resilience in Aotearoa New
	Zealand's threatened freshwater biota. International Congress for Conservation Biology, Malaysia.
2019	Underwater, out of mind? A call for integrative legislation reform, Crazy & Ambitious 2 Symposium,
	Te Papa, Wellington.
2018	Critical first steps toward enhancing resilience in two threatened freshwater endemics, UNVEIL Sym-
	posium, U.S.A. (co-presented with Levi Collier-Robinson).