

Dr Kristina M Ramstad

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RESEARCH INTERESTS

Conservation Genomics • Molecular Ecology • Transcriptomics • Traditional Ecological Knowledge

EDUCATION

PhD	1999-2006	Organismal Biology and Ecology , University of Montana, Missoula, MT, USA
MSc	1995-1998	Aquatic and Fishery Sciences , University of Washington, Seattle, WA, USA
BA	1989-1993	Biological Sciences , Wellesley College, Wellesley, MA, USA

EMPLOYMENT

2021-present	Associate Professor , Department of Biology & Geology, University of South Carolina Aiken, USA
2015-2021	Assistant Professor , Department of Biology & Geology, University of South Carolina Aiken, USA
2010-2015	Research Fellow – Conservation Genomics , Victoria University of Wellington, New Zealand
2006-2010	Postdoctoral Fellow – Biodiversity Research & Links to Māori , Victoria University of Wellington, New Zealand
1999-2001	Fisheries Biologist , US Geological Survey, Anchorage, AK, USA

MAJOR GRANTS AND AWARDS

2021-2023	EARly-concept Grants for Exploratory Research (EAGER) , National Science Foundation, \$199,921, <i>Testing for genes associated with migratory behavior in a peripatetic species</i>
2010-2014	Postdoctoral Research Fellowship , New Zealand Ministry of Business, Innovation, and Employment, \$277,500NZ, <i>Saving the rarest kiwi: using forefront genomic technology to manage inbreeding effects in rowi</i>
2010	Research Grant , Allan Wilson Centre for Molecular Ecology and Evolution, \$105,000NZD, scholarship to support a PhD student (HTaylor)
2006-2010	Postdoctoral Fellowship , Allan Wilson Centre for Molecular Ecology and Evolution \$250,000NZ, Māori and community outreach and biodiversity research
1999-2004	Doctoral Research Grant , US Geological Survey, \$235,500US, tuition and research costs in support of ecological genetics research of sockeye salmon

ADDITIONAL GRANTS AND AWARDS

For teaching

2018	High Impact Teaching Award , USC Aiken Center for Teaching Excellence, \$2500
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ADDITIONAL GRANTS AND AWARDS (CONT.)*For genetic and ecological research*

- 2007- 2021 **Research Contracts**, New Zealand Department of Conservation, \$47,200NZ total for genetic analysis of little spotted kiwi (2007-2009;2021 with Dr LShepherd, Te Papa Tongarewa), rowi (2013) and tuatara (2013)
- 2020 **ASPIRE-I Grant**, University of South Carolina, \$15,000, with Drs Mike Miller (UC Davis), Gordon Luikart (U of Montana), and April DeLaurier (USC Aiken) to research the genomic basis of red body color in sockeye salmon (*Oncorhynchus nerka*)
- 2018-2021 **Summer Scholars Institute Awards**, University of South Carolina Aiken, five awards totaling \$33,000 (including \$15,000 for student salaries), to support summer undergraduate research
- 2016-2020 **RISE Grants**, University of South Carolina, five awards totaling \$29,900 for kiwi and wood stork genomics research
- 2016-2018 **Magellan Scholarships**, University of South Carolina, six awards totaling \$14,100 to support undergraduate student research on avian genomics and field research
- 2016 **ASPIRE I Grant**, University of South Carolina, \$15,000US, with Larry Bryan and Stacey Lance (UGA) for wood stork genomics research
- 2015 **Legacy Grant**, Allan Wilson Centre for Molecular Ecology and Evolution, \$10,000NZ, with co-PIs HTaylor and N Gemmell (UOtago, New Zealand) for kiwi genome re-sequencing
- 2014 **Research Grant**, Birdlife International, \$8000NZ, laboratory consumables for genetic analysis of great spotted kiwi
- 2013-2014 **Research Grants**, Allan Wilson Centre for Molecular Ecology and Evolution, \$28,000NZ, *Genetic diversity and demography of great spotted kiwi*
- 2013 **Marsden Development Fund Grant**, Victoria University of Wellington, \$9500NZ, support for proposal titled *Testing the generality of molecular adaptation among New Zealand's avifauna*
- 2011-2013 **Flagship Project Award**, New Zealand Genomics Ltd and Illumina Australia, \$25,000NZ in sequencing and bioinformatics support, *Using next generation transcriptomics to discover genes associated with reproductive success in kiwi*
- 2010-2011 **Equipment Grant**, Allan Wilson Centre for Molecular Ecology and Evolution, \$21,700NZ total, awards in two consecutive years for laboratory equipment to support kiwi genomics research
- 2007-2009 **Research Grants**, Bank of New Zealand Save the Kiwi Trust, \$32,000NZ total, co-PI with H Robertson and R Colbourne, awards in three consecutive years for genetic marker development in little spotted kiwi

For traditional ecological knowledge research

- 2004 **University Research Grant**, Victoria University of Wellington, \$8500NZ, to support Māori trainees for the Tuatara Traditional Knowledge Project
- 2004 **Summer Student Grant**, Biological Sciences, Victoria University of Wellington, \$10,000NZ, to support Māori trainees for the Tuatara Traditional Knowledge Project
- 1999-2004 **Training in Environmental Biology Fellowship**, National Science Foundation, USA, \$32,000US, tuition and research costs in support of international research with indigenous communities

Awards for scholarship and service

- 2005 **James E Wright Graduate Award**, Genetics Section, American Fisheries Society, to recognize excellence in postgraduate fisheries genetics research
- 2005 **John E Skinner Memorial Award**, American Fisheries Society, to recognize student academic achievement and service in fishery and aquatic sciences

ADDITIONAL GRANTS AND AWARDS (CONT.)*Awards for scholarship and service (cont.)*

- 2002-2004 **Bertha Morton Scholarship**, University of Montana, \$4000US total, awarded 2 consecutive years (\$2000 in 2002, \$2000 in 2003) for research, professional and community achievements and for postgraduate academic excellence
- 2002-2003 **Philanthropic Educational Organization Scholar**, \$8000US, in recognition of women pursuing PhDs with exceptional potential to positively impact their research field and society

PUBLICATIONS*Major publications*

- Schweizer, RM, N Saarman, **KM Ramstad**, BR Forester, JL Kelley, BK Hand, RL Malison, AS Ackiss, M Watsa, TC Nelson, A Beja-Pereira, RS Waples, WC Funk, and G Luikart. 2021. Big data in conservation genomics: boosting skills, hedging bets, and staying current in the field. **Journal of Heredity** 112:313-327. DOI: 10.1093/jhered/esab019
- Shepherd, LD, AJD Tennyson, HA Robertson, RM Colbourne, and **KM Ramstad**. 2021. Hybridisation in kiwi (*Apteryx*; Apterygidae) requires taxonomic revision for great spotted kiwi. **Avian Research** 12:24. DOI:10.1186/s40657-021-00257-6
- Taylor, H, HA Robertson, AL Carter, and **KM Ramstad**. 2021. The conservation management implications of isolation by distance and high genetic diversity in great spotted kiwi (*Apteryx haastii*). **Emu – Austral Ornithology** Special issue: Conservation Genetics. 121:10-22. DOI:10.1080/01584197.2021.1888126
- Ramstad, KM** and LT Dunning. 2020. Population genomics advances and opportunities in conservation of kiwi (*Apteryx* spp). Pages 493-521 in OP Rajora & P Hohenlohe (eds.), **Population Genomics: Wildlife**. Springer Publishing, New York, NY.
- Taylor, HR, RM Colbourne, HA Robertson, NJ Nelson, FW Allendorf, and **KM Ramstad**. 2017. Cryptic inbreeding depression in a recovering long-lived species. **Molecular Ecology**. DOI:10.1111/mec.13977. (Cover)
- Ramstad, KM**, HC Miller, and G Kolle. 2016. Sixteen kiwi (*Apteryx* spp) transcriptomes provide a wealth of genetic markers and insight into sex chromosome evolution in birds. **BMC Genomics** 17:410. DOI: 10.1186/s12864-016-2714-2.
- Taylor, HR, M Kardos, **KM Ramstad** and FW Allendorf. 2015. Valid estimates of individual inbreeding coefficients from marker-based pedigrees are not feasible in wild populations with low allelic diversity. **Conservation Genetics** DOI:10.1007/s10592-015-0709-1.
- Ramstad, KM**, RM Colbourne, HA Robertson, FW Allendorf, and CH Daugherty. 2013. Genetic consequences of a century of protection: serial founder events and survival of the little spotted kiwi (*Apteryx owenii*). **Proceedings of the Royal Society B: Biological Sciences** 280:20130576.
- HC Miller, G Bowker-Wright, M Kharkang, and **K Ramstad**. 2011. Characterization of class II B MHC genes from a ratite bird, the little spotted kiwi (*Apteryx owenii*). **Immunogenetics** 63:223–233.
- Ramstad, KM**, CA Woody, and FW Allendorf. 2010. Recent local adaptation of sockeye salmon to glacial spawning habitats. **Evolutionary Ecology** 24:391-411.
- Ramstad, KM**, NJ Nelson, G Paine, D Beech, A Paul, P Paul, FW Allendorf, and CH Daugherty. 2007. Species and cultural conservation in New Zealand: Māori traditional ecological knowledge of tuatara. **Conservation Biology** 21:455–464.
- Ramstad, KM**, CA Woody, GK Sage, and FW Allendorf. 2004. Founding events influence genetic population structure of sockeye salmon (*Oncorhynchus nerka*) in Lake Clark, Alaska. **Molecular Ecology** 13:277-290.

PUBLICATIONS (CONT.)*Major publications (cont.)*

Ramstad, KM, CJ Foote, JB Olsen, and D Rogers. 2003. Genetic and phenotypic evidence of reproductive isolation between seasonal runs of sockeye salmon in Bear Lake, Alaska. **Transactions of the American Fisheries Society** 132:997-1013.

Additional peer-reviewed publications

Ramstad, KM, GC Gibb, HA Robertson, RM Colbourne, EE Doran, and LD Shepherd. 2021. Recent extinctions among Little Spotted Kiwi (*Apteryx owenii*) and the origin of extant populations. **Emu – Austral Ornithology** Special issue: Conservation Genetics 121:23-32. DOI:10.1080/01584197.2020.1840926

Jia X-Y, Li W, KM Ramstad, B Tu, and J Yan. 2021. Microsatellite records for volume 13, issue 1. Twenty-three novel microsatellite loci cross amplify and determine sex in two clades of New Zealand's endemic kiwi (Family Apterygidae). **Conservation Genetic Resources** 13:107-109.

Geary, AF, KM Ramstad, G Paine, W Mason, D Dunning, SE Corin, and NJ Nelson. *In review*. Māori traditional harvest, knowledge and management of sooty shearwaters (*Puffinus griseus*) in the Marlborough Sounds, New Zealand. *Pacific Conservation Biology*.

Taylor, HR, NJ Nelson, and KM Ramstad. 2014. Chick Timer™ software proves an accurate, disturbance-minimizing tool for monitoring hatching success in little spotted kiwi (*Apteryx owenii*). **New Zealand Journal of Zoology** 41:139-146.

Shepherd, LD, TH Worthy, AJD Tennyson, RP Scofield, KM Ramstad, and DM Lambert. 2012. Ancient DNA analyses reveal contrasting phylogeographic patterns amongst kiwi (*Apteryx* spp.) and a recently extinct lineage of spotted kiwi. **PLoS ONE** 7:e42384.

Ramstad, KM, JA Moore, and JM Refsnider. 2012. Intrasexual aggression in tuatara: males and females respond differently to same-sex intruders. **Herpetological Review** 43:19-21.

Ramstad, KM, M Pfunder, HA Robertson, RM Colbourne, FW Allendorf, and CH Daugherty. 2010. Fourteen microsatellite loci cross-amplify in all five kiwi species (*Apteryx* spp.) and reveal extremely low genetic variation in little spotted kiwi (*A. owenii*). **Conservation Genetics Resources** 2:333-336.

Ramstad, KM and L Faulkner. 2010. Tikanga & technology: a new net goes fishing. Pages 248-254 in JS Te Rito & S Healy (eds.), **Proceedings of the Traditional Knowledge Conference 2008** – “Te tatau pounamu: The greenstone door, Traditional knowledge and gateways to balanced relationships”, University of Auckland, New Zealand.

Ramstad, KM, G Paine, DL Dunning, AF Geary, SN Keall, and NJ Nelson. 2009. Effective partnerships between universities and indigenous communities: a case study in tuatara conservation in Aotearoa. **Journal of the Royal Society of New Zealand** 39:229-231.

Whyte, ALH, JJ Bell, KM Ramstad, and JPA Gardner. 2008. An indigenous-led community challenge to fisheries management in New Zealand: the revival of regional scale management practices? **Pacific Conservation Biology** 14:248-249.

Ramstad, KM, CA Woody, C Habicht, GK Sage, JE Seeb, and FW Allendorf. 2007. Concordance of nuclear and mitochondrial DNA markers in detecting a founder event in Lake Clark sockeye salmon. Pages 31-50 in CA Woody (ed.), **Sockeye salmon evolution, ecology, and management**. American Fisheries Society, Symposium 54, Bethesda, Maryland.

Ramstad, KM, and CA Woody. 2003. Radio tag retention and mortality of adult sockeye salmon. **North American Journal of Fisheries Management** 23:978-982.

Woody, CA, J Nelson, and KM Ramstad. 2002. Clove oil as an anesthetic for migrating sockeye salmon: field trials. **Journal of Fish Biology** 60:340-347.

PUBLICATIONS (CONT.)

Popular articles

Taylor, H and **KM Ramstad**. 2012. Five kiwi that saved a species. **Forest & Bird** 346:16-20.

Ramstad, KM, and ALH Whyte. 2008. Protecting our mahinga kai: how genetics research can help in managing mātaītai, taiāpure, and rāhui. **Kai Korero** 2:15-17.

Ramstad, KM, NJ Nelson, G Paine, D Beech, A Paul, P Paul, FW Allendorf, and CH Daugherty. 2007. Tuatara – our living ancient taonga. **Mana Magazine** 76:18-21.

TEACHING EXPERIENCE

Current courses – Undergraduate, University of South Carolina Aiken

- **BIOL 122 – Biological Sciences II** (4 credits), since Fall 2015
- **BIOL 316 – Vertebrate Zoology** (4 credits), since Spring 2017
- **BIOL 350 – Fundamental Genetics** (3 credits), since Fall 2017
- **BIOL 398 – Applied Population Genomics** (4 credits), since Fall 2019
- **BIOL 520 – Swamp Ecology** (4 credits), since Maymester 2018
- **BIOL 525 – Conservation Biology** (3 credits), since Fall 2016

Previous courses (Guest Lecturer or Teaching Assistant)

- **Gondwana Revisited** (IA 240), 2012 & 2015, Lewis & Clark College/Victoria University of Wellington
 - **New Zealand Conservation Biology** (BIOL 495), 2005-2006, University of Montana
 - **Conservation Genetics** (BIOL 480), 2002-2004, University of Montana
 - **Conservation Ecology** (BIOL 495), 2003, University of Montana
 - **Aquatic Vertebrate Ecology** (BIOL 456), 2002, University of Montana
 - **Biology and Management of Fishes** (BIOL 308), 2002, University of Montana
 - **Genetics and Evolution** (BIOL 223), 2001-2006, University of Montana
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STUDENT SUPERVISION & MENTORING

Undergraduate students

Currently supervise 3 undergraduate students, University of South Carolina Aiken

Previously supervised another 18 undergraduate research students at USCA (2016 to 2021) including:

- 7 students studying avian genetics and mating systems
- 7 Magellan Scholars and 3 Summer Institute Scholars
- 5 co-supervised with researchers at SREL and studying toxin bioaccumulation, genetics and behavior of reptiles, amphibians and mammals

Previously supervised 4 undergraduate Honors research projects (1997 to 2013) on kiwi genetics at Victoria University of Wellington and salmonid ecology at the Universities of Montana and Washington.

Graduate students

2019 – present

Kate Shlepr (advisory committee member)

PhD in Biological Sciences, Florida Atlantic University

Primary advisor: Dr Dale Gawlik

Project: *Population-level impacts of potential adaptation by wood storks to the Everglades*

STUDENT SUPERVISION & MENTORING (CONT.)*Graduate students (cont.)*

- 2018 – 2019 **Melissa Groleau** (advisory committee member)
MSc in Biological Sciences, University of South Carolina Columbia
 Primary advisor: Dr Timothy Mousseau
 Project: *Radioactive contamination and human disturbance on the mammals of Fukushima, Japan*
- 2011-2014 **Helen Taylor** (co-supervisor Dr Nicola Nelson)
PhD Conservation Biology, Victoria University of Wellington
 Project: *Inbreeding and reproductive success in bottlenecked populations of kiwi*
 Currently a Postdoctoral Fellow at University of Otago, New Zealand
- 2007-2010 **Amelia Geary** (co-supervisor Dr Nicola Nelson)
MSc Conservation Biology, Victoria University of Wellington
 Project: *Mātauranga Māori and sustainable harvest: muttonbirding on Motungārara Island*
 Currently an Environmental Analyst for Synapt Consulting, Wellington, New Zealand
- 2008-2009 **Dawson Dunning** (Fulbright Student, co-supervisor Dr Nicola Nelson)
MFA in Science and Natural History Filmmaking, Montana State University, USA
 Project: *Tuatara and tītī: cultural significance and conservation in Aotearoa*
 Founder and Director of 3 Bears Media, Montana, USA
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SELECTED PRESENTATIONS*Invited seminars (of 28 total)*

- 2021 The role of bioinformatics in conservation genomics. KM Ramstad. **Science on Tap, USC Aiken and Savannah River National Lab**, Aiken, SC (virtual presentation)
- 2020 Genetic signatures of selection, dispersal, and drift in kiwi (*Apteryx* spp). KM Ramstad. Department of Natural Resource Ecology and Management, **Iowa State University**, Ames, IA (virtual presentation).
- 2020 Rapture of the storks – Panmixia and parasitism in American wood storks. KM Ramstad. **Charleston Natural History Society**, Charleston, SC.
- 2019 Lessons from the Swamp: High Impact Teaching in a Wild Setting. KM Ramstad. **Center for Teaching Excellence, University of South Carolina Aiken**.
- 2018 Behavior, inbreeding, and fitness in the Red-cockaded woodpeckers of Hitchcock Woods. KM Ramstad, Mark Pavlosky Jr, James Garabedian. **Hitchcock Woods Board of Trustees**, Aiken, SC.
- 2018 Genetic signatures of selection, dispersal, and drift in kiwi (*Apteryx* spp). Ramstad, KM. **Savannah River Ecology Lab, University of Georgia**, September 2018, Jackson, SC.
- 2017 Founder effects and inbreeding: the Noah’s Ark effect in the little spotted kiwi. **Ramstad, KM. Charleston Natural History Society/Audubon Society**, February 2017, Charleston, SC.
- 2016 Founder effects and inbreeding in the little spotted kiwi. **Ramstad, KM. Augusta-Aiken Audubon Society**, North Augusta, SC, USA.
- 2014 Biogeography, ecology and conservation of New Zealand’s kiwi. **Ramstad, KM. Wellesley College**, Wellesley, MA, USA.
- 2012 Causes and consequences of reduced genetic diversity in kiwi. **Ramstad, KM. New Zealand Ornithological Society**, Wellington, New Zealand
- 2011 Using genomics to manage inbreeding effects in New Zealand’s rarest kiwi. **Ramstad, KM, H Robertson, R Colbourne, D Kaye, OA Ryder, H Miller, C Daugherty, and FW Allendorf. International Congress for Conservation Biology**, Auckland, New Zealand.

SELECTED PRESENTATIONS (CONT.)*Invited seminars (cont.)*

- 2009 Working with indigenous communities in research: lessons learnt through failure and success. **Ramstad, KM. Australasian Research Management Society**, Christchurch, New Zealand.
- 2008 Salmon, kiwi, and iwi: conservation tales from two temperate zones. **Ramstad, KM**. Zoology Lecture Series, **University of Hawaii - Manoa**, Honolulu, USA.
- 2008 Tikanga and technology: a new net goes fishing. **Ramstad, KM** and L Faulkner. **Science Communicators Association of New Zealand**, Dunedin, New Zealand.
- 2008 Local adaptation of sockeye salmon (*Oncorhynchus nerka*) to glacial spawning habitats. **Ramstad, KM**, CA Woody, and FW Allendorf. **Cawthron Institute**, Nelson, New Zealand.

Contributed presentations (of 109 total, including 51 with students - names in italics)

- 2021 Can drones be used to estimate the hatching success of WOST? *H Mayo* and KM Ramstad. **South Carolina Chapter of The Wildlife Society**, October 2021 (virtual).
- 2021 Genetic monitoring of red-cockaded woodpeckers in Hitchcock Woods. *B Zonca* and KM Ramstad, **USCA Department of Biology and Geology Seminar**, April 2021.
- 2020 Genomic population structure of American wood storks - how many populations are there? Ramstad, KM, *NJ Bayona-Vásquez*, *SN Del Lama*, *SL Lance*, and *AL Bryan*. **North American Ornithological Conference**, held virtually.
- 2019 Effects of herbicide Triclopyr on the behavior and physiology of juvenile frogs. *Adam McFall*, *J Ziemba*, *GRodriguez*, *KM Ramstad*, and *S Lance*. **Society of Environmental Toxicology and Chemistry (SETAC) North America 40th Annual Meeting**, Toronto, Canada.
- 2018 Are American wood storks panmictic? *KM Ramstad*, *NJ Bayona-Vásquez*, *SN Del Lama*, *SL Lance*, and *AL Bryan*. Annual meeting of the **Waterbird Society**, August 2018, Vancouver, CANADA.
- 2018 Can wood stork nests be monitored with camera traps? *R Saxon*, *M Day*, *LBryan* & *KMRamstad*. **Wood Stork Research and Monitoring Working Group** Annual Meeting, Jacksonville, FL.
- 2017 Signatures of positive selection in a basal avian lineage (*Apteryx* spp). *KMRamstad*, *LTDunning*. **Conference on Conservation of Adaptive Potential and Functional Diversity**, Durham, UK.
- 2016 Fine-scale isolation by distance and genetic bottlenecks in New Zealand's rarest kiwi. **KM Ramstad**, *H Robertson*, *RAbbott* & *C Daugherty*. Annual meeting of the **Society for the Study of Evolution**, Austin, TX.
- 2013 Pedigrees are ill-suited to measuring inbreeding in bottlenecked species. *Taylor, H*, **KM Ramstad**, *FW Allendorf*, and *M Kardos*. **European Society for Evolutionary Biology**, Lisbon, Portugal.
- 2013 Comparative transcriptomics of kiwi: discovering genes associated with reproductive success. **Ramstad, KM**, and *G Kolle*. **Biodiversity Genomics Conference**, Canberra, Australia.
- 2012 Is measuring inbreeding depression in wild populations of highly inbred, bottlenecked species worthwhile? *Taylor, H*, **KM Ramstad**, and *M Kardos*. **European Congress of Conservation Biology**, Glasgow, Scotland.
- 2012 HiSeq transcriptomics to discover genes associated with reproductive success in kiwi. **Ramstad, KM**, and *G Kolle*. **International Next Generation Sequencing Conference**, Dunedin, New Zealand.
- 2010 Kiwi and the inbreeding effect of small population size. **Ramstad, KM**, *HA Robertson*, *RM Colbourne*, *FW Allendorf*, and *CH Daugherty*. **New Zealand Molecular Ecology Conference**, Waiwera, New Zealand.
- 2009 Customary harvest and long-term viability of muttonbirds in the Marlborough Sounds, New Zealand: Implications for retaining traditional cultural heritage. *Geary AF*, *NJ Nelson*, and **KM Ramstad**. **Australasian Ornithological Conference**, Armidale, NSW, Australia.

SELECTED PRESENTATIONS (CONT.)

Contributed presentations (cont.)

- 2009 Serial founder effects and population persistence of little spotted kiwi. **Ramstad, KM**, HA Robertson, RM Colbourne, FW Allendorf, and CH Daugherty. **Society for the Study of Evolution**, Moscow, ID, USA.
 - 2007 Fierce females: variation in intra-sexual aggression among tuatara. **Ramstad, KM**, JA Moore, and JM Refsnider. **European Society of Evolutionary Biology**, Uppsala, Sweden.
 - 2007 Increased weapon size and reduced visual displays: evidence for a glacial ecotype of sockeye salmon. **Ramstad, KM**, CA Woody, and FW Allendorf. **Society for the Study of Evolution**, Christchurch, New Zealand.
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PUBLIC OUTREACH AND SERVICE TO THE SCIENTIFIC COMMUNITY

- **Student presentation judge**, North American Ornithological Conference, held virtually August 2020
 - **ICE event speaker** – *Women in Science: Stereotypes & Reality*, USC Aiken, March 2019
 - Instructor for **USC Aiken Academy of Lifelong Learning**, 2019
 - **Bioinformatics workshop organizer**, held for USC Aiken Faculty in conjunction with the INBRE Bioinformatics Core, April 2019.
 - **Science in Action guest speaker**, Ballard High School, Seattle, WA, Jan 2018.
 - **Undergraduate Diversity Mentor**, Annual Meeting of the Society for the Study of Evolution, June 2016
 - **Symposium co-organizer**, *Conservation Genomics*, International Congress for Conservation Biology, 2011
 - **Pre-doctoral internship program organizer**, developed and secured funding (\$150,000NZ) for a pre-doctoral internship program for Māori and indigenous students, jointly sponsored by the Allan Wilson Centre for Molecular Ecology and Evolution and Ngā Pae o te Māramatanga (Māori Centre for Research Excellence), New Zealand, 2008 – 2010
 - **Workshop organizer**
 - *WAI262*, Annual meeting of the Allan Wilson Centre, New Zealand 2009
 - *Whakapapa and DNA*, Te Wananga Pūtaiao and Ngāti Kahugunu, New Zealand 2008
 - *Tikanga & technology: A new net goes fishing*, held jointly with the New Zealand Environmental Risk Management Authority, the Institute of Geological and Nuclear Sciences, and the Allan Wilson Centre, New Zealand, 2008
 - **Reviewer** for *Proceedings of the Royal Society B*, *Journal of Ethnobiology and Ethnomedicine*, *Biological Conservation*, *Molecular Ecology*, *Conservation Biology*, *Transactions of the American Fisheries Society*, *Reviews in Fish Biology and Fisheries*, *Journal of the Royal Society of New Zealand*, *Fisheries*, and *New Zealand Journal of Zoology*
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PROFESSIONAL APPOINTMENTS AND AFFILIATIONS

Advisory appointments

- **Genetic Management Advisor**, Kiwis for Kiwi and Kiwi Recovery Group, 2014 - present
- **Kiwi Advisor**, [EcoGene](#) - DNA based diagnostics, 2013 – 2015
- **Māori Consultation Policy Advisory Group**, **Environmental Protection Authority**, New Zealand, 2010-2011
- **IUCN Commission on Environmental, Economic & Social Policy**, 2007 – 2021

Current society memberships

- **American Genetic Association**, since 2020
- **Waterbird Society**, since 2018
- **Society for Conservation Biology**, since 2010
- **European Society for Evolutionary Biology**, since 2007
- **Society for the Study of Evolution**, since 2005