

# Dr Kristina M Ramstad

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Department of Biological, Environmental, and Earth Sciences

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## RESEARCH INTERESTS

Conservation Genomics • Molecular Ecology • Applied Species Management • Traditional Ecological Knowledge

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## EDUCATION

<b>PhD</b>	1999-2006	<b>Organismal Biology and Ecology</b> , University of Montana, Missoula, MT, USA Ecological genetics of salmonids and integration of conservation biology and indigenous traditional ecological knowledge, Dr Fred Allendorf – Advisor.
<b>MSc</b>	1995-1998	<b>Aquatic and Fishery Sciences</b> , University of Washington, Seattle, WA, USA
<b>BA</b>	1989-1993	<b>Biological Sciences</b> , Wellesley College, Wellesley, MA, USA

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## EMPLOYMENT & ACADEMIC APPOINTMENTS

2021-present	<b>Associate Professor</b> , Department of Biological, Environmental and Earth Sciences, University of South Carolina Aiken, USA
2018-present	<b>Graduate Faculty</b> , Department of Biological Sciences, University of South Carolina Columbia, USA
2019-2022	<b>Affiliate Faculty</b> , Department of Biological Sciences, Florida Atlantic University, USA
2015-2021	<b>Assistant Professor</b> , Department of Biological, Environmental and Earth Sciences, University of South Carolina Aiken, USA
2010-2014	<b>Research Fellow – Conservation Genomics</b> , Victoria University of Wellington, New Zealand
2006-2010	<b>Postdoctoral Fellow – Biodiversity Research &amp; Links to Māori</b> , Victoria University of Wellington, New Zealand

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## GRANTS & AWARDS

### Major Grants

2021-2024	<b>EARly-concept Grants for Exploratory Research (EAGER)</b> , National Science Foundation, \$199,921 for project entitled <i>Testing for genes associated with migratory behavior in a peripatetic species</i>
2010-2014	<b>Postdoctoral Research Fellowship</b> , New Zealand Ministry of Business, Innovation, and Employment, \$277,500NZ, for project entitled <i>Saving the rarest kiwi: using forefront genomic technology to manage inbreeding effects in rowi</i>
2006-2010	<b>Postdoctoral Fellowship</b> , Allan Wilson Centre for Molecular Ecology and Evolution, \$250,000NZ, Māori and community outreach and biodiversity research
1999-2004	<b>Doctoral Research Grant</b> , US Geological Survey, \$235,500, tuition and research costs in support of ecological genetics research of sockeye salmon

**GRANTS & AWARDS (CONT.)***Additional grants*

2023-2024	<b>Probe Grants, IDeA Networks of Biomedical Research Excellence (INBRE)</b> , three awards totaling \$6000 to support undergraduate research in functional genomics and bioinformatics
2018-2023	<b>Summer Scholars Institute Awards</b> , University of South Carolina Aiken, six awards totaling \$41,000 (including \$18,000 for student salaries), to support summer undergraduate research
2016-2023	<b>Magellan Scholarships, University of South Carolina</b> , 9 awards totaling \$22,100 to support undergraduate student research on avian genomics and field research
2007-2021	<b>Research Contracts, New Zealand Department of Conservation</b> , six awards totaling \$47,200NZ, for genetic analyses of little spotted kiwi (\$34,000), rowi (\$7000) and tuatara (\$6200)
2020	<b>ASPIRE-I Grant</b> , 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 ( <i>Oncorhynchus nerka</i> )
2016-2020	<b>RISE Grants, University of South Carolina</b> , five awards totaling \$29,900 for kiwi and wood stork genomics research
2018	<b>High Impact Teaching Award</b> , USC Aiken Center for Teaching Excellence, \$2500
2016	<b>ASPIRE-I Grant, University of South Carolina</b> , \$15,000, with Larry Bryan and Dr Stacey Lance (U of Georgia, Savannah River Ecology Lab) for wood stork genomics research
2015	<b>Legacy Grant, Allan Wilson Centre for Molecular Ecology and Evolution</b> , \$10,000NZ, with Drs Helen Taylor and Neil Gemmell (U of Otago, New Zealand) for kiwi genome re-sequencing
2014	<b>Research Grant, Birdlife International</b> , \$8000NZ, laboratory consumables for genetic analysis of great spotted kiwi
2013-2014	<b>Research Grants, Allan Wilson Centre for Molecular Ecology and Evolution</b> , \$13,000NZ, <i>Genetic diversity and demography of great spotted kiwi</i>
2013	<b>Marsden Development Fund Grant, Victoria University of Wellington</b> , \$9500NZ, support for proposal titled <i>Testing the generality of molecular adaptation among New Zealand's avifauna</i>
2011-2013	<b>Flagship Project Award, New Zealand Genomics Ltd and Illumina Australia</b> , \$25,000NZ in sequencing and bioinformatics support, <i>Using next generation transcriptomics to discover genes associated with reproductive success in kiwi</i>
2010-2011	<b>Equipment Grants, Allan Wilson Centre for Molecular Ecology and Evolution</b> , \$21,700NZ, for laboratory equipment to support kiwi genomics research
2010	<b>Research Grant, Allan Wilson Centre for Molecular Ecology and Evolution</b> , \$105,000NZD, scholarship to support a PhD student (awarded to HTaylor)
2007-2009	<b>Research Grants, Bank of New Zealand Save the Kiwi Trust</b> , \$32,000NZ total, co-PI with H Robertson and R Colbourne, awards in three consecutive years for genetic marker development in little spotted kiwi (\$10,000 in 2007, \$6000 in 2008, \$16,000 in 2009)

**PUBLICATIONS** undergraduate student, graduate student*Major publications*

- Flamio, R, Jr and **KM Ramstad**. 2023. Chromosome-level genome of the wood stork (*Mycteria americana*) provides insight into avian chromosome evolution. **Journal of Heredity** 115(2):230-239. DOI:10.1093/jhered/esad077
- 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** 26:799-813. 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** 16:901-913. 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.
- 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.

**PUBLICATIONS (CONT.)** *undergraduate student, graduate student**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, NJ Nelson, G Paine, W Mason, *D Dunning*, SE Corin and **KM Ramstad**. 2019. Māori traditional harvest, knowledge and management of sooty shearwaters (*Puffinus griseus*) in the Marlborough Sounds, New Zealand. **New Zealand Journal of Ecology** special issue: Mātauranga Māori shaping ecological futures 43:1-7.
- Taylor, HR, NJ Nelson, and **KM Ramstad**. 2019. The first recorded interaction between two species separated for centuries suggests they were ecological competitors. **New Zealand Journal of Ecology** 43:3361.
- 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.)** *undergraduate student, graduate student*

### *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.

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## **TEACHING EXPERIENCE**

### *Current and recent 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 – Fall 2022
- **BIOL 352 – 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
- **EXSC 190 – Camping** (1 credit), since Spring 2024

### *Previous courses – Guest Lecturer or Teaching Assistant*

- **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
  - **Gondwana Revisited** (IA 240), 2012 & 2015, Lewis & Clark College/Victoria University of Wellington
  - **Genetics and Evolution** (BIOL 223), 2001-2006, University of Montana
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## **STUDENT SUPERVISION & MENTORING**

### *Undergraduate students*

**Have supervised a total of 25 undergraduate research students at USC Aiken (2016 to present)** including:

- 9 Magellan Scholars, 4 Summer Institute Scholars and 3 INBRE Scholars
- 6 co-supervised with researchers at the Savannah River Ecology Lab 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 – 2022

**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 in Conservation Biology**, Victoria University of Wellington, New Zealand  
 Project: *Inbreeding and reproductive success in bottlenecked populations of kiwi*  
 Currently the Conservation Program Manager, Royal Zoological Society of Scotland
- 2007-2010 **Amelia Geary** (co-supervisor Dr Nicola Nelson)  
**MSc in 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
- 2006 **Hannah Rainforth** (co-supervisor Dr Nicola Nelson)  
**MSc in Conservation Biology**, Victoria University of Wellington  
 Project: *Protecting our freshwater shellfish: status & restoration options for kākahi in the Whanganui area*
- 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

**SELECTED PRESENTATIONS** \*presenter, undergraduate student, *graduate student**Invited seminars (of 32 total)*

- 2022 Chromosome-level genome assembly for a stork: testing for genes associated with migratory behavior. R Flamio & \*KM Ramstad. **Genomes of Animals & Plants Conference**. (virtual)
- 2022 The secret and swampy lives of American wood storks. \*KM Ramstad. **Seabrook Island Birders Association**, Seabrook Island, SC.
- 2021 The role of bioinformatics in conservation genomics. \*KM Ramstad. **Science on Tap**, USC Aiken and Savannah River National Lab, Aiken, SC. (virtual)
- 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).
- 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.
- 2017 Founder effects and inbreeding: the Noah's Ark effect in the little spotted kiwi. \*KM Ramstad. **The Citadel**, Charleston, SC.
- 2015 Recent genetic research in rowi, great spotted kiwi and little spotted kiwi. \*KM Ramstad & H Taylor. **New Zealand Department of Conservation**, Wellington, New Zealand.

**SELECTED PRESENTATIONS (CONT.)** \*presenter, undergraduate student, graduate students*Invited seminars cont.*

- 2014 Biogeography, ecology and conservation of New Zealand's kiwi. Ramstad, KM. **Wellesley College**, Wellesley, MA.
- 2012 Causes and consequences of reduced genetic diversity in kiwi. \*KM Ramstad. **New Zealand Ornithological Society**, Wellington, New Zealand
- 2011 Using genomics to manage inbreeding effects in New Zealand's rarest kiwi. \*KM Ramstad, H Robertson, R Colbourne, D Kaye, OA Ryder, H Miller, C Daugherty, and FW Allendorf. **International Congress for Conservation Biology**, Auckland, New Zealand.
- 2009 Working with indigenous communities in research: lessons learnt through failure and success. \*KM Ramstad. **Australasian Research Management Society**, Christchurch, New Zealand.
- 2008 Salmon, kiwi, and iwi: conservation tales from two temperate zones. \*KM Ramstad. Zoology Lecture Series, **University of Hawaii - Manoa**, Honolulu, USA.
- 2008 Tikanga and technology: a new net goes fishing. \*KM Ramstad and \*L Faulkner. **Science Communicators Association of New Zealand**, Dunedin, New Zealand.

*Contributed presentations (of 128 total, including 66 with students)*

- 2023 Genomic population structure of the peripatetic wood stork. M Zimmerman, R Flamio Jr, NJ Bayona-Vásquez, SN Del Lama and \*KM Ramstad. **Waterbird Society**, Fort Lauderdale, FL.
- 2023 Reproductive Integration of Gopher Tortoises Following Multiple Population Augmentations. \*TD Tuberville, KM Ramstad, TA Edwards, AM Grosse, JW Dillman, RK McKee, H Young, and KA Buhlmann. **Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles**, Charleston, SC.
- 2023 Assessing the genomic basis of local adaptation in glacial sockeye salmon (*Oncorhynchus nerka*). \*KM Ramstad, R Flamio, A DeLaurier, G Luikart and N Richardson. **Society for the Study of Evolution**, Albuquerque, NM.
- 2023 Post-translocation fitness and social structure in a recently founded red-cockaded woodpecker population. \*B Taylor, J Garabedian, M Pavlosky, and KM Ramstad. **Society for the Study of Evolution**, 21-25 June 2023, Albuquerque, NM (poster)
- 2022 Female biased dispersal promotes fine-scale genetic structure in the flightless rowi. \*KM Ramstad. **50 Years of Conservation Genetics: A Symposium in Honor of Fred Allendorf**. Missoula, MT.
- 2022 Not all who wander are lost: Testing for genes associated with migratory behavior in a peripatetic species. \*KM Ramstad. **Wood Stork Monitoring and Management meeting**. (virtual)
- 2021 Can drones be used to estimate the hatching success of WOST? \*H Mayo and KM Ramstad. **South Carolina Chapter of The Wildlife Society** (virtual).
- 2020 Genomic population structure of American wood storks - how many populations are there? \*KM Ramstad, NJ Bayona-Vásquez, SN Del Lama, SL Lance, and AL Bryan. **North American Ornithological Conference** (virtual).
- 2019 Effects of herbicide Triclopyr on the behavior and physiology of juvenile frogs. \*A McFall, J Ziemba, GRodriguez, KM Ramstad, and S Lance. **Society of Environmental Toxicology and Chemistry North America Annual Meeting**, Toronto, Canada.
- 2018 Can wood stork nests be monitored with camera traps? \*R Saxon, M Day, L Bryan & KM Ramstad. **Wood Stork Research and Monitoring Working Group Annual Meeting**, Jacksonville, FL.
- 2017 Signatures of positive selection in a basal avian lineage (*Apteryx* spp). \*KM Ramstad, LT Dunning. **Conference on Conservation of Adaptive Potential and Functional Diversity**, Durham, UK.

**SELECTED PRESENTATIONS (CONT.)** \*presenter, undergraduate student, graduate students*Contributed presentations cont.*

- 2016 Fine-scale isolation by distance and genetic bottlenecks in New Zealand's rarest kiwi. \*KM Ramstad, H Robertson, R Abbott & C Daugherty. **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. \*KM Ramstad and G Kolle. **Biodiversity Genomics Conference**, Canberra, Australia.
- 2012 Is measuring inbreeding depression in wild populations of highly inbred, bottlenecked species worthwhile? \*H Taylor, KM Ramstad, and M Kardos. **European Congress of Conservation Biology**, Glasgow, Scotland.
- 2012 HiSeq transcriptomics to discover genes associated with reproductive success in kiwi. \*KM Ramstad and G Kolle. **International Next Generation Sequencing Conference**, Dunedin, New Zealand.
- 2009 Customary harvest and long-term viability of muttonbirds in the Marlborough Sounds, New Zealand: Implications for retaining traditional cultural heritage. \*AF Geary, NJ Nelson and KM Ramstad. **Australasian Ornithological Conference**, New South Wales, Australia.
- 2009 Serial founder effects and population persistence of little spotted kiwi. \*KM Ramstad, HA Robertson, RM Colbourne, FW Allendorf and CH Daugherty. **Society for the Study of Evolution**, Moscow, ID.
- 2007 Fierce females: variation in intra-sexual aggression among tuatara. \*KM Ramstad, 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. \*KM Ramstad, CA Woody, and FW Allendorf. **Society for the Study of Evolution**, Christchurch, New Zealand.

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**PUBLIC OUTREACH & SERVICE TO THE SCIENTIFIC COMMUNITY**

- **Education and Outreach Committee member**, Society for the Study of Evolution, September 2023
- **Student Activities Co-Chair**, Annual Meeting of the Waterbird Society, September 2023
- **Workshop organizer** - *Basics in Bioinformatics and Genome-Wide Association Studies*, University of South Carolina Aiken, June 2023
- **Panelist** - *Conserving and Restoring Biodiversity: From James River Sturgeon to New Zealand Kiwi*, with Matthew Balazik and Phil Seddon, University of Richmond, November 2022
- **Review panelist** for National Science Foundation, Evolutionary Processes Cluster, Careers Panel, November 2022
- **Panelist** - *Navigating the Game: Scholarship for Promotion and Tenure*, Center for Teaching Excellence, USC Aiken, October 2021
- **Student presentation judge**, North American Ornithological Conference, held virtually August 2020
- **ICE event speaker** – *Women in Science: Stereotypes & Reality*, March 2019
- **Instructor** for USC Aiken Academy of Lifelong Learning, 2019
- **Bioinformatics workshop organizer**, held 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



## PUBLIC OUTREACH & SERVICE TO THE SCIENTIFIC COMMUNITY (CONT.)

- **Traditional knowledge workshops, organizer**
    - WAI262, Annual meeting of the Allan Wilson Centre, New Zealand 2009
    - *Whakapapa and DNA*, Te Wananga Pūtaiao and Ngāti Kahungunu, 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
  - **Peer 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*, *PLoS ONE*, *GigScience*, *Biodiversity and Conservation* and *New Zealand Journal of Zoology*
  - **Postgraduate thesis reviewer** for Victoria University of Wellington and University of Otago
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## PROFESSIONAL APPOINTMENTS & 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
- **Technical Advisory Committee, Te Tiaki Mahinga Kai** (Guarding customary food) **Project**, 2007- 2010

### Current society memberships

- **American Genetic Association**, since 2020
  - **Waterbird Society**, since 2018
  - **Society for Conservation Biology**, since 2010
  - **Society for the Study of Evolution**, since 2005
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## MEDIA HIGHLIGHTS

- [USC Aiken News](#), USC Aiken biology team draws on genetic techniques to advance the conservation of at-risk species, Jan 2024
- [NewsHub](#), Scientists catch fight between kiwi and tuatara on video, Jan 2019
- [New Zealand Herald](#), Battle to the nest - ancient foes little spotted kiwi and ancient tuatara tussle it out, Jan 2019
- [Radio New Zealand](#), Tuatara vs Kiwi: the ultimate New Zealand showdown, Jan 2019
- **Bella magazine**, Women making history at USCA, March 2017
- [SCOOP Sci-Tech News](#), Inbreeding threatens Long Island's little spotted kiwi, Jan 2017
- [Stuff.co.nz](#), Kiwi colony 'seriously threatened' by severe inbreeding, Jan 2017
- **Otago Daily Times**, Inbreeding threatens once thriving kiwi population, Jan 2017
- [USC Aiken Magazine](#), It takes a village – one species may have it all figured out, Fall 2016
- [Science Media Centre](#), Kiwi genetics a conservation concern, May 2013
- [Dominion Post](#), Lack of diversity puts little spotted kiwi at risk, May 2013
- [Science NOW](#), Rising numbers may not be enough to save tigers and kiwis, May 2013
- [Scientific American](#), NZ's little spotted kiwi are in more trouble than we thought, May 2013
- [Earth Times](#), Kiwi conservation genetics, May 2013
- [Dominion Post](#), Scientists peek into Kapiti spotted kiwi, Oct 2012