DARREN IRWIN

Professor, Department of Zoology University of British Columbia (UBC) 6270 University Boulevard Vancouver, BC, Canada, V6T 1Z4

irwin@zoology.ubc.ca

https://www.zoology.ubc.ca/~irwin/irwinlab/

CURRENT POSITIONS

2014-	Professor, Department of Zoology, UBC
2005-	Director, Cowan Tetrapod Collection, Beaty Biodiversity Museum, UBC
2004-	Member, Biodiversity Research Centre, UBC

EDUCATION

1994-2000	Ph.D., Biological Sciences, University of California, San Diego (advisor: Dr.
	Trevor Price)

1988–1992 B.S., Biological Sciences (with Honors & Distinction), Stanford University, Stanford, California (advisor: Dr. Ward Watt)

PREVIOUS APPOINTMENTS

2014-2015	Interim Director, Beaty Biodiversity Museum, UBC
	Associate Professor, Department of Zoology, UBC
2010-2011	Visiting Sabbatical Scholar, Department of Genetics, University of
	Wisconsin, Madison
2004-2009	Assistant Professor, Department of Zoology, UBC
2003-2004	Postdoctoral Research Fellow, Center for Tropical Research, Institute of
	the Environment, University of California, Los Angeles
2001-2002	NSF International Research Fellow, Molecular Population Biology Group,
	Department of Animal Ecology, Lund University

SPECIAL PROFESSIONAL QUALIFICATIONS

Diversification"

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2018-	Fellow, American Ornithological Society (Elective Member since 2014)
2004-	Certified as a Master Bird Bander by Environment Canada

GRANTS & HONOURS

2017-2022	NSERC Discovery Grant: "Evolution of the Causes of Speciation:
	Comparative Analysis of Genomic Variation and the Genetic Basis of Traits
	Responsible for Diversification"
2017-2022	NSERC Discovery Accelerator Supplement
2016-2018	Genome BC Grant: "Genomic differentiation among Northern Goshawks of
	coastal British Columbia"
2012-2017	NSERC Discovery Grant: "Comparative Genomic Analysis of Hybridization

and Speciation: Uncovering Genes and Traits Responsible for

2015 declined) NSERC Research Tools and Infrastructure Grant: "Ultracold Freezers for Molecular Ecology and Evolution" NSERC Discovery Grant: "Intraspecific Variation and Speciation in Passerine Birds" Early Career Scholar, Peter Wall Institute for Advanced Studies Just Desserts Award, UBC Alma Mater Society and UBC Graduate Student Association (for going 'above and beyond the call of duty' in service to
 NSERC Discovery Grant: "Intraspecific Variation and Speciation in Passerine Birds" Early Career Scholar, Peter Wall Institute for Advanced Studies Just Desserts Award, UBC Alma Mater Society and UBC Graduate Student
2006-2007 Early Career Scholar, Peter Wall Institute for Advanced Studies 2006 Just Desserts Award, UBC Alma Mater Society and UBC Graduate Student
graduate students)
New Opportunities Grant from Canadian Foundation for Innovation / British Columbia Knowledge Development Fund: "Facility for Molecular BioGeography"
2000-2002 NSF International Research Fellowship: "The Role of Migration in Speciation: a Study of two Ring Species"
1998-2000 NSF grant: "Analysis of a Ring Species" (co-written with PI Trevor Price)
1998 NSF Dissertation Enhancement grant: "U.SRussian/Kazakhstan Dissertation Research: Analysis of a Ring Species"
1996 Sigma Xi Grant-in-Aid of Research
1996 Blake Award from the American Ornithologists' Union
1995 Jeanne Messier Memorial Fund grant
1995 Exploration Fund grant from The Explorers Club
1994 Markey Fellowship, University of California, San Diego
1988 DSJ Scholarship, Stanford University

PUBLICATIONS

*Undergraduate Student +Graduate Student †Postdoc

- 73. Mikkelsen, E.K.*, & **D. Irwin**. 2021 Ongoing production of low-fitness hybrids limits range overlap between divergent cryptic species. *Molecular Ecology* 30: 4090–4102.
- 72. Wang, S.+, M.J. Ore+, E.K. Mikkelsen*, J. Lee-Yaw, D.P.L. Toews, S. Rohwer & **D. Irwin**. 2021. Signatures of mitonuclear coevolution in a warbler species complex. *Nature Communications* 12: 4279.
- 71. **Irwin, D.E.** 2020. Assortative mating in hybrid zones is remarkably ineffective in promoting speciation. *American Naturalist* 195: E150–E167.
- 70. Wang, S.+, S. Rohwer, D.R. de Zwaan+, D.P.L. Toews, I.J. Lovette, J. Mackenzie* & **D. Irwin**. 2020. Selection on a small genomic region underpins differentiation in multiple color traits between two warbler species. *Evolution Letters* 4: 502–515.
- 69. Geraldes, A.[‡], K.K. Askelson⁺, E. Nikelski⁺, F.I. Doyle, W.L. Harrower, K. Winker & **D.E. Irwin**. 2019. Population genomic analyses reveal a highly differentiated and endangered genetic cluster of northern goshawks (*Accipiter gentilis laingi*) in Haida Gwaii. *Evolutionary Applications* 12: 757–772. *Shared first authorship of first two authors*.
- 68. Wang, S.+, S. Rohwer, K. Delmore & **D.E. Irwin**. 2019. Cross-decades stability of an avian hybrid zone. *Journal of Evolutionary Biology* 32: 1242-1251.
- 67. Delmore, K.E.[‡], J. Lugo, B.M. Van Doren, M. Lundberg, S. Bensch, **D.E. Irwin** & M. Liedvogel. 2018. Comparative analysis examining patterns of genomic differentiation across multiple episodes of population divergence in birds. *Evolution Letters* 2: 76–87.

- 66. **Irwin, D.E.**, B. Milá, D.P.L. Toews[‡], A. Brelsford, H.L. Kenyon⁺, A.N. Porter⁺, C. Grossen[‡], K.E. Delmore[‡], M. Alcaide[‡] & J.H. Irwin. 2018. A comparison of genomic islands of differentiation across three young avian species pairs. *Molecular Ecology* 27: 4839–4855.
- 65. **Irwin, D.E.** 2018. Sex chromosomes and speciation in birds and other ZW systems. *Molecular Ecology* 27: 3831–3851.
- 64. Toews, D.P.L.[‡], I.J. Lovette, **D.E. Irwin** & A. Brelsford. 2018. Similar hybrid composition among different age and sex classes in the Myrtle-Audubon's warbler hybrid zone. *The Auk: Ornithological Advances* 135: 1133–1145.
- 63. Uy, J.A.C., **D.E. Irwin** & M.S. Webster. 2018. Behavioral isolation and incipient speciation in birds. *Annual Review of Ecology, Evolution, and Systematics* 49: 1–24.
- 62. Brelsford, A., D.P.L. Toews[‡] & **D.E. Irwin**. 2017. Admixture mapping in a hybrid zone reveals loci associated with avian feather coloration. *Proceedings* B 284: 20171106. *Shared first authorship of the first two authors*.
- 61. Kenyon, H.L.+, M. Alcaide[‡], D.P.L. Toews+ & **D.E. Irwin**. 2017. Cultural isolation is greater than genetic isolation across an avian hybrid zone. *Journal of Evolutionary Biology* 30: 81–95.
- 60. Szabo, I., K. Walters, J. Rourke & **D.E. Irwin**. 2017. First record of House Swift (*Apus nipalensis*) in the Americas. *Wilson Journal of Ornithology* 129: 411–416.
- 59. Toews, D.P.L.⁺, K.E. Delmore⁺, M.M. Osmond⁺, P.D. Taylor & **D.E. Irwin**. 2017. Migratory orientation in a narrow avian hybrid zone. *PeerJ* 5: e3201.
- 58. Toews, D.P.L.+, J. Heavyside* & **D.E. Irwin**. 2017. Linking the wintering and breeding grounds of warblers along the Pacific Flyway. *Ecology and Evolution* 7: 6649–6658.
- 57. Delmore, K.E.+, D.P.L. Toews+, R.R. Germain+, G.L. Owens+ & **D.E. Irwin**. 2016. The genetics of seasonal migration and plumage color. *Current Biology* 26: 2167–2173.
- 56. Fernando, S.P.+, **D.E. Irwin** & S.S. Seneviratne[‡]. 2016. Phenotypic and genetic analysis support distinct species status of the Red-backed Woodpecker (Lesser Sri Lanka Flameback: *Dinopium psarodes*) of Sri Lanka. *The Auk: Ornithological Advances* 133: 497–511.
- 55. Grossen, C.‡, S.S. Seneviratne‡, D. Croll‡ & **D.E. Irwin**. 2016. Strong reproductive isolation and narrow genomic tracts of differentiation among three woodpecker species in secondary contact. *Molecular Ecology* 25: 4247–4266.
- 54. **Irwin, D.E.** 2016. A tree of tree frogs around the Black Sea. *Molecular Ecology* 25: 4093–4096. (invited "Perspective")
- 53. **Irwin, D.E.**, M. Alcaide[‡], K.E. Delmore⁺, J.H. Irwin & G.L. Owens⁺. 2016. Recurrent selection explains parallel evolution of genomic regions of high relative but low absolute differentiation in a ring species. *Molecular Ecology* 25: 4488–4507.
- 52. **Irwin, D.E.**, & D.B. Wake. 2016. Ring species. Pages 467-475 in *Encyclopedia of Evolutionary Biology*, edited by R. M. Kliman. Oxford: Academic Press.
- 51. Seneviratne, S.S.[‡], P. Davidson, K. Martin & **D.E. Irwin**. 2016. Low levels of hybridization across two contact zones among three species of woodpeckers (*Sphyrapicus* sapsuckers). *Journal of Avian Biology*, 47: 887–898.
- 50. Toews, D.P.L.⁺, A. Brelsford, B. Milá, C. Grossen[‡] & **D.E. Irwin**. 2016. Genomic variation across the yellow-rumped warbler species complex. *The Auk: Ornithological Advances* 133: 698–717.
- 49. Toews, D.P.L.+, L. Campagna, S.A. Taylor, C.N. Balakrishnan, D.T. Baldassarre, P.E. Deane-Coe, M.G. Harvey, D.M. Hooper, **D.E. Irwin**, C.D. Judy, N.A. Mason, J.E. McCormack, K.G. McCracken, C.H. Oliveros, R.J. Safran, E.S.C. Scordato, K.F. Stryjewski, A. Tigano, J.A.C. Uy & B.M. Winger. 2016. Genomic approaches to understanding population divergence and speciation in birds. *The Auk: Ornithological Advances* 133: 13-30.
- 48. Delmore, K.E.+, H.L. Kenyon+, R.R. Germain+ & **D.E. Irwin**. 2015. Phenotypic divergence during speciation is inversely associated with differences in seasonal migration. *Proceedings of the Royal Society of London* B 282: 20151921.

- 47. Delmore, K.E.⁺, S. Hübner[‡], N.C. Kane, R. Schuster, R.L. Andrew[‡], F. Câmara, R. Guigo & **D.E. Irwin**. 2015. Genomic analysis of a migratory divide reveals candidate genes for migration and implicates selective sweeps in generating islands of differentiation. *Molecular Ecology* 24: 1873–1888.
- 46. Lee-Yaw, J.A.⁺, & **D.E. Irwin**. 2015. The importance (or lack thereof) of niche divergence to the maintenance of a northern species complex: the case of the long-toed salamander (*Ambystoma macrodactylum* Baird). *Journal of Evolutionary Biology* 28: 917–930.
- 45. Lee-Yaw, J.A.+, T. Sechley* & **D.E. Irwin**. 2015. Conflicting effects of microhabitat on long-toed salamander *Ambystoma macrodactylum*) movement: implications for landscape connectivity. *Canadian Journal of Zoology* 93: 1–7. *Shared first authorship of the first two authors.*
- 44. Alcaide, M.[‡], E.S.C. Scordato⁺, T.D. Price & **D.E. Irwin**. 2014. Genomic divergence in a ring species complex. *Nature* 511: 83–85.
- 43. Delmore, K.E.+, & **D.E. Irwin**. 2014. Hybrid songbirds employ intermediate routes in a migratory divide. *Ecology Letters* 17: 1211–1218.
- 42. Lee-Yaw, J.A.+, C.G.C. Jacobs+ & **D.E. Irwin**. 2014. Individual performance in relation to cytonuclear discordance in a northern contact zone between long-toed salamander (*Ambystoma macrodactylum*) lineages. *Molecular Ecology* 23: 4590-4602.
- 41. Szabo, I., S. Cavaghan*, G. Hurley* & **D.E. Irwin**. 2014. A call for the preservation of images, recordings, and other data in association with avian genetic samples, and the introduction of a solution: OMBIRDS. *The Auk: Ornithological Advances* 131: 321–326.
- 40. Toews, D.P.L.⁺, A. Brelsford⁺ & **D.E. Irwin**. 2014. Isotopic variation across the Audubon's-myrtle warbler hybrid zone. *Journal of Evolutionary Biology* 27: 1179–1191.
- 39. Toews, D.P.L.⁺, M. Mandic⁺, J.G. Richards & **D.E. Irwin**. 2014. Migration, mitochondria and the yellow-rumped warbler. *Evolution* 68: 241–255.
- 38. Paxton, K.L.+, M. Yau*, F.R. Moore & **D.E. Irwin**. 2013. Differential migratory timing of western populations of Wilson's Warbler (*Cardellina pusilla*) revealed by mitochondrial DNA and stable isotopes. *The Auk* 130: 689–698.
- 37. Delmore, K.E.+, J.W. Fox & **D.E. Irwin**. 2012. Dramatic intraspecific differences in migratory routes, stopover sites and wintering areas, revealed using light-level geolocators. *Proceedings of the Royal Society of London* B 279: 4582–4589.
- 36. **Irwin, D.E.** 2012. A novel approach for finding ring species: look for barriers rather than rings. *BMC Biology* 10: 21. (invited Commentary)
- 35. **Irwin, D.E.** 2012. Culture in songbirds and its contribution to the evolution of new species. Pages 163–178 in: *Creating Consilience: Integrating the Sciences and the Humanities*, edited by E. Slingerland & M. Collard. Oxford University Press, Oxford.
- 34. **Irwin, D.E.** 2012. Local adaptation along smooth ecological gradients causes phylogeographic breaks and phenotypic clustering. *American Naturalist* 180: 35-49.
- 33. **Irwin, D.E.** 2012. Look northward to the boreal, the home of many migrating birds. *Frontiers of Biogeography* 4: 99–101. (invited Book Review)
- 32. Lee-Yaw, J.A.+, & **D.E. Irwin**. 2012. Large geographic range size reflects a patchwork of divergent lineages in the long-toed salamander (*Ambystoma macrodactylum*). *Journal of Evolutionary Biology*, 25: 2276–2287.
- 31. Safran, R., S. Flaxman, M. Kopp, **D.E. Irwin**, D. Briggs, M.R. Evans, W.C. Funk, D.A. Gray, E.A. Hebets, N. Seddon, E. Scordato, L.B. Symes, J.A. Tobias, D.P.L. Toews⁺ & J.A.C. Uy. 2012. A robust new metric of phenotypic distance to estimate and compare multiple trait differences among populations. *Current Zoology* 58: 426–439.
- 30. Seneviratne, S.S.‡, D.P.L. Toews+, A. Brelsford+ & **D.E. Irwin**. 2012. Concordance of genetic and phenotypic characters across a sapsucker hybrid zone. *Journal of Avian Biology* 43: 119–130.
- 29. Toews, D.P.L.+, **D.E. Irwin**, S.J. Hejl, J.A. Holmes & D.E. Kroodsma. 2012. Pacific Wren (*Troglodytes pacificus*). The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology.

- 28. Brelsford, A.+, B. Milá & **D.E. Irwin**. 2011. Hybrid origin of Audubon's warbler. *Molecular Ecology* 20: 2380–2389.
- 27. **Irwin, D.E.,** J.H. Irwin & T.B. Smith. 2011. Genetic variation and seasonal migratory connectivity in Wilson's warblers (*Wilsonia pusilla*): species-level differences in nuclear DNA between western and eastern populations. *Molecular Ecology* 20: 3102–3115.
- 26. Kenyon, H.L.*, D.P.L. Toews⁺ & **D.E. Irwin**. 2011. Can song discriminate between MacGillivray's and Mourning warblers in a narrow hybrid zone? *Condor* 113: 655–663.
- 25. Rohwer, S., & D.E. Irwin. 2011. Molt, orientation, and avian speciation. Auk 128: 419-425.
- 24. Toews, D.P.L.⁺, A. Brelsford⁺ & **D.E. Irwin**. 2011. Hybridization between Townsend's *Dendroica townsendi* and black-throated green warblers *D. virens* in an avian suture zone. *Journal of Avian Biology* 42: 434–446.
- 23. Brelsford, A.+, & **D.E. Irwin**. 2009. Incipient speciation despite little assortative mating: the yellow-rumped warbler hybrid zone. *Evolution* 63: 3050–3060.
- 22. **Irwin, D.E.**, A. Brelsford⁺, D.P.L. Toews⁺, C. MacDonald^{*} & M. Phinney. 2009. Extensive hybridization in a contact zone between MacGillivray's and mourning warblers (*Oporornis tolmiei* and *O. philadelphia*) detected using molecular and morphometric analyses. *Journal of Avian Biology* 40: 539–552.
- 21. **Irwin, D.E.** 2009. Incipient ring speciation revealed by a migratory divide. *Molecular Ecology* 18: 2923–2925. (invited "Perspective")
- 20. **Irwin, D.E.** 2009. Speciation: New migratory direction provides route toward divergence. *Current Biology* 19: R1111-R1113. (invited "Dispatch")
- 19. **Irwin, D.E.**, A.S. Rubtsov[‡] & E.N. Panov. 2009. Mitochondrial introgression and replacement between yellowhammers (*Emberiza citrinella*) and pine buntings (*Emberiza leucocephalos*) (Aves: Passeriformes). *Biological Journal of the Linnean Society* 98: 422–438.
- 18. Rush, A.+, R.C. Cannings & **D.E. Irwin**. 2009. Analysis of multilocus DNA reveals hybridization in a contact zone between *Empidonax* flycatchers. *Journal of Avian Biology* 40: 614-624.
- 17. **Irwin, D.E.**, M.P. Thimgan* & J.H. Irwin. 2008. Call divergence is correlated with geographic and genetic distance in greenish warblers (*Phylloscopus trochiloides*): a strong role for stochasticity in signal evolution? *Journal of Evolutionary Biology* 21: 435–448.
- 16. Toews, D.P.L.+, & **D.E. Irwin**. 2008. Cryptic speciation in a Holarctic passerine revealed by genetic and bioacoustic analyses. *Molecular Ecology* 17: 2691–2705. *The authors contributed equally to this work (order determined by musical ability).*
- 15. **Irwin, D.E.**, & M. Hellström. 2007. Green Warbler *Phylloscopus (trochiloides) nitidus* recorded at Ottenby, Öland: a first record for Scandinavia. *Ornis Svecica* 17: 75-80.
- 14. Bensch, S., **D.E. Irwin**, J.H. Irwin, L. Kvist & S. Åkesson. 2006. Conflicting patterns of mitochondrial and nuclear DNA diversity in *Phylloscopus* warblers. *Molecular Ecology* 15: 161–171.
- 13. **Irwin, D.E.**, S. Bensch, J.H. Irwin & T.D. Price. 2005. Speciation by distance in a ring species. *Science* 307: 414-416.
- 12. **Irwin, D.E.**, & J.H. Irwin. 2005. Siberian migratory divides: the role of seasonal migration in speciation. Pages 27–40 in *Birds of Two Worlds: The Ecology and Evolution of Migration*, edited by R. Greenberg & P. P. Marra. Johns Hopkins University Press, Baltimore, Maryland.
- 11. **Irwin, D.E.**, & J.H. Irwin. 2004. Speciation in a ring: the role of song. Page 204 in *Nature's Music: the Science of Birdsong*, edited by P. Marler and H. Slabbekoorn. Academic Press.
- 10. Price, T.D., A. Qvarnström & **D.E. Irwin**. 2003. The role of phenotypic plasticity in driving genetic evolution. *Proceedings of the Royal Society of London* B 270: 1433–1440.
- 9. Åkesson, S., S. Bensch, A. Hedenström & **D.E. Irwin**. 2002. Blowfly *Trypocalliphora braueri* (Diptera: Calliphoridae) larvae infestation in Willow Warblers *Phylloscopus trochilus* breeding in a hybrid zone. *Ornis Svecica* 12: 83–88.
- 8. Bensch, S., S. Åkesson & **D.E. Irwin**. 2002. The use of AFLP to find an informative SNP: genetic differences across a migratory divide in willow warblers. *Molecular Ecology* 11: 2359–2366.

- 7. **Irwin, D.E.** 2002. Phylogeographic breaks without geographic barriers to gene flow. *Evolution* 56: 2383–2394.
- 6. **Irwin, D.E.**, & J.H. Irwin. 2002. Circular overlaps: rare demonstrations of speciation. *Auk* 119: 596-602. (invited "Overview")
- 5. Irwin, D.E., P. Alström, U. Olsson & Z.M. Benowitz-Fredericks*. 2001. Cryptic species in the genus *Phylloscopus* (Old World leaf warblers). *Ibis* 143: 233-247.
- 4. Irwin, D.E., S. Bensch & T.D. Price. 2001. Speciation in a ring. *Nature* 409: 333-337.
- 3. **Irwin, D.E.**, J.H. Irwin & T.D. Price. 2001. Ring species as bridges between microevolution and speciation. *Genetica* 112–113: 223–243.
- 2. Irwin, D.E. 2000. Song variation in an avian ring species. *Evolution* 54: 998–1010.
- 1. Irwin, D.E., & T. Price. 1999. Sexual imprinting, learning and speciation. *Heredity* 82: 347–354.

TEACHING EXPERIENCE (all at UBC)

2005-2021 2010-2021	BIOL427, Ornithology and Herpetology (17 terms; 23–58 students each) BIOL300, Fundamentals of Biostatistics (7 terms; 197–301 students each)
2021	BIOL140, Laboratory Investigations in Life Science (2 sections, 51 students total)
2016	BIOL501, Quantitative Methods in Ecology and Evolution (22 graduate students)
2009	BIOL525A, Speciation (with L. Rieseberg and D. Schluter; 8 graduate students)
2006-2007	ZOOL525, Evolution Discussion Group (1-credit course; 2 terms; about 20 graduate students each)
2006	BIOL409, Field Course in Ecology (intensive 2-week field course in the Yukon; 12 students)

INVITED PRESENTATIONS

2021	Symposium on "Advances in the study of reproductive isolation in birds," annual conference of the American Ornithological Society / Society of Canadian Ornithologists (online).
2020	Speciation & Introgression Discussion Group, UC Berkeley (online).
2019	Gordon Research Conference on Speciation, Ventura, California. University of Wyoming, Department of Zoology and Physiology.
2018	Symposium on "Sexual signals and speciation in birds: combining field and genomic approaches," International Ornithological Congress 2018, Vancouver, British Columbia.
2017	University of Illinois at Urbana-Champaign, Program in Ecology, Evolution & Conservation Biology.
2015	University of Oslo, Centre for Ecological and Evolutionary Synthesis.
2014	Symposium on "Genomic approaches to understanding avian speciation," annual meeting of the American Ornithologists' Union, Estes Park, Colorado.
2013	University of California, San Diego, Division of Biological Sciences. 5th Annual Peace Region Palaeontology Research Centre Symposium, Tumbler Ridge, British Columbia. FroSpects (Frontiers of Speciation Research) Behaviour and Speciation

Workshop. Oslo, Norway.

2012	University of Toronto Scarborough, Department of Biological Sciences. Yukon Science Institute, Beringia Centre, Whitehorse, Yukon. November 18, 2012. (public lecture)
	Yukon Biodiversity Forum, Yukon College, Whitehorse, Yukon. (Keynote speaker)
2011	Queen's University, Department of Biology.
	Centro de Investigação em Biodiversidade e Recursos Genéticos (CIBIO), Porto, Portugal.
	University of Chicago, Department of Ecology and Evolution. Field Museum, Chicago, Illinois.
	University of Wisconsin, Madison, Evolution Seminar Series.
2010	University of Wisconsin, Madison, Department of Zoology.
2009	2010 Calpe Conference, Gibraltar Museum, Gibraltar.
2009	University of Northern British Columbia, Ecosystem Science and Management Program.
	Simon Fraser University, Department of Biological Sciences.
	Colorado State University, Fort Collins, Department of Biology.
	University of Colorado at Boulder, Department of Ecology and
	Evolutionary Biology.
	Symposium on "Evolutionary processes underlying avian biodiversity," at
	Evolution—the Experience, Melbourne Convention Centre,
2008	Melbourne, Australia. Conference on <i>Integrating the Sciences and Humanities</i> , Peter Wall
2000	Institute for Advanced Studies, UBC.
2007	University of Western Ontario, Department of Biology.
	University of Toronto, Department of Ecology and Evolutionary Biology.
	University of Victoria, Department of Biology.
2006	Workshop on "Culture in evolutionary perspective," Green College. UBC.
2006	Symposium on "Genetics of speciation," American Genetics Association Annual Symposium, UBC.
	Zoology Graduate Student Symposium, UBC.
2005	University of Wyoming, Department of Zoology and Physiology.
	Simon Fraser University, Department of Biological Sciences.
	Canadian Wildlife Service, Ladner, British Columbia.
	Western Washington University, Department of Biology.
2003	University of British Columbia, Department of Zoology.
	University of California, Davis, Section of Evolution and Ecology. University of California, Berkeley, Museum of Vertebrate Zoology.
	University of California, Berkeley, Museum of Vertebrate 20010gy. University of California, Los Angeles, Department of Organismic Biology,
	Ecology, and Evolution.
2002	California State University, Northridge, Department of Biology.
	University of Nevada, Reno, Department of Biology.
	Duke University, Department of Biology.
2001	Symposium on "Birds of two worlds," Smithsonian Institution.
2001	University of St. Andrews, Scotland, School of Biology.
	Uppsala University, Sweden, Departments of Animal Ecology and Population Biology, Evolutionary Biology Center.
	Lund University, Sweden, Department of Ecology.
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2000	California State University, Fullerton, Department of Biological Science.
1999	University of Texas, Austin, Department of Zoology.
MENTORIN	G
Current La	b Members
2022-	Caleigh Charlebois (MSc student)
2018-	Rashika Ranasinghe (PhD student)
2018-	Kenneth Askelson (PhD Candidate)
2017-	Elizabeth Natola (PhD Candidate)
Lab Alumn	i
Postdoctora	l researchers
2016-2018	Dr. Armando Geraldes (now Research Scientist, UBC Botany)
2013-2014	Dr. Christine Grossen (now Independent Group Leader, Department of
	Evolutionary Biology and Environmental Studies, University of Zurich,
2011 2014	Switzerland)
2011-2014	Dr. Miguel Alcaide (now Senior Molecular Diagnostics Scientist, SAGA Diagnostics, Lund, Sweden)
2008-2012	Dr. Sampath Seneviratne (now Professor, Department of Zoology &
2000 2012	Environment Sciences, University of Colombo, Sri Lanka)
2005-2006	Dr. Alexander Roubtsov (now Head of Research Department, State Darwin
	Museum, Moscow, Russia)
Graduate st	udents
2018-2021	Ellen Nikelski, MSc (now PhD student, University of Toronto Scarborough)
	Saminda Fernando, PhD (co-advised with Dr. Sampath Seneviratne; now
	Senior Lecturer, The Open University of Sri Lanka)
2016-2019	
2014-2019	3 , • • • • • • • • • • • • • • • • • • •
2016-2018 2016-2017	, , ,
2010-2017	5 , , ,
2012 2013	Ottawa—and working with a law firm)
2010-2015	
2009-2014	·
2011-2013	
2008-2013	
2004-2010	Alan Brelsford, PhD (now Assistant Professor, UC Riverside)

2005-2008 Kathryn Kuker, MSc (co-advised with Dr. Lance Barrett-Lennard; now

2005-2007 Andrew Rush, PhD (transferred to UC Berkeley after 2 years for personal

Resources Management)

2005–2007 David Toews, MSc (continued on to PhD—see above)

Senior Consultant/Senior Wildlife Biologist at ERM: Environmental

reasons and completed PhD there; we published a paper together and are on good terms; now Continuing Lecturer, UC Berkeley)

Honours Undergraduate Students

2019-2021 Quinn McCallum

2017–2018 Else Mikkelsen

2016-2018 Annagret Liederbach

2009-2010 Haley Kenyon

Advised and/or partly funded over 30 other undergraduate research projects

SERVICE

2020-	Co-chair, Zoology Equity, Diversity, and Inclusion Committee
2018-	Executive Committee member, UBC Dept. of Zoology
2010-	Director, Cowan Tetrapod Collection, Beaty Biodiversity Museum, UBC
2005-	More than a dozen public seminars or radio / newspaper interviews.
2004-	Member of more than 20 short-term committees for UBC Zoology (e.g., hiring, promotion, safety, admissions committees)
2001-	Reviewer of 200 manuscripts for 43 journals, and 59 grant proposals for 16 agencies
2000-	Contributed, coauthored and/or advised student presenters of more than 60 scientific conference presentations.
2019	Member, Rosemary Grant Award reviewing committee, Society for the Study of Evolution
2018	Study Guide on an alumniUBC / Worldwide Quest expedition to Peruvian Amazonia
2018	Co-organizer, symposium on "Sexual signals and speciation in birds: combining field and genomic approaches," International
	Ornithological Congress, Vancouver, Canada.
2016-2018	Member of National Committee, International Ornithological Congress 2018, Vancouver, Canada
2014-2017	Subject Editor, Journal of Avian Biology
2014-2017	Member, Miller Award Committee, Cooper Ornithological Society
2014-2015	Interim Director, Beaty Biodiversity Museum
2009-2015	
	countries.
2008-2015	
2009-2012	Associate Editor, <i>The American Naturalist</i>
2009-2010	Member, NESCent (National Evolutionary Synthesis Center) working group,
	"An integrative evolutionary approach to examine sexual selection as a mechanism of speciation"
2005-2010	Director, Cowan Vertebrate Museum, UBC
2007	Organizer of symposium on "Mechanisms of speciation in birds," 125th Stated Meeting of the American Ornithologists' Union, University of
	Wyoming
2006-2007	Core Participant, MIGRATE (Migration Interest Group: Research Applied Toward Education), an NSF funded Research Coordination Network