

CURRICULUM VITAE

Dr. Sabrina S. Taylor

Associate Professor
School of Renewable Natural Resources
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EDUCATION

Ph.D., Department of Zoology, University of Otago, Oct 2006.

Thesis subject: The genetic and conservation consequences of species translocations in New Zealand saddlebacks and robins. Supervisor: Dr. Ian Jamieson.

M.Sc., Department of Biology, Dalhousie University, Dec. 1, 2000

Thesis subject: Parental care and foraging behaviour during incubation and chick rearing in endangered Humboldt Penguins (*Spheniscus humboldti*). Supervisors: Dr. M. Leonard and Dr. D. Boness (Smithsonian Institution).

B.Sc. (Hons. First Class), Biology Co-op Programme, University of Victoria, 1995

Minor in Environmental Studies

Thesis subject: Speciation in Garter Snakes (*Thamnophis sirtalis*). Supervisor: Dr. P. Gregory

PROFESSIONAL EXPERIENCE

Associate Professor, Conservation Genetics. Louisiana State University AgCenter, Baton Rouge, Louisiana. July 2015 - present.

Assistant Professor, Conservation Genetics. Louisiana State University AgCenter, Baton Rouge, Louisiana. March 2009 – June 2015.

NSERC Postdoctoral Fellow. University of British Columbia, Vancouver, British Columbia. July 2007 to March 2009.

PUBLISHED REFEREED SCIENTIFIC ARTICLES

Names of students and post-doctoral fellows (current and former) under my supervision/co-supervision are given in bold. Last author position indicates research that I directed or co-directed.

- Bonisoli-Alquati, A.**, P.C. Stouffer, R.E. Turner, S. Woltmann, and S. S. Taylor. In press. Incorporation of Deepwater Horizon oil in a terrestrial bird. *Environmental Research Letters*.
- Elbers, J. P.**, Clostio, R. W., and Taylor, S. S. 2016. Population genetic inferences using immune gene SNPs mirror patterns inferred by microsatellites. *Molecular Ecology Resources*. doi: 10.1111/1755-0998.12591
- Elbers, J.P.** and S.S. Taylor. 2016. Major histocompatibility complex polymorphism in reptile conservation. *Herpetological Conservation and Biology* 11:1-12.
- Brzeski, K.E.**, M.B. DeBiase, D.R. Rabon Jr., M.J. Chamberlain, and S.S. Taylor. 2016. Mitochondrial DNA variation in southeastern pre-Columbian canids. *Journal of Heredity* 107:287-293.
- Weston, K.A., S.S. Taylor, and B.C. Robertson. 2016. Identifying populations for management: fine-scale population structure in the New Zealand alpine rock wren (*Xenicus gilviventris*). *Conservation Genetics* 17:691–701.
- Wilson, A.S., Y. Chan, S.S. Taylor, and P.A. Arcese. 2015. Genetic divergence of an avian endemic on the Californian Channel Islands. *PLoS ONE* 10(8): e0134471. doi:10.1371/journal.pone.0134471.
- Elbers, J.** and S.S. Taylor. 2015. GO2TR: a gene ontology-based workflow to generate target regions for target enrichment experiments. *Conservation Genetics Resources* 7:851-857. DOI 10.1007/s12686-015-0487-6.
- Brzeski, K.**, R. Harrison, W. Waddell, K. Wolf, D. Rabon Jr., and S.S. Taylor. 2015. Infectious disease and red wolf conservation: assessment of disease occurrence and associated risks. *Journal of Mammalogy* 96:751-761.
- Rogers, H.A., S.S. Taylor, J.P. Hawke, and J.A. Anderson Lively. 2015. Variations in prevalence of viral, bacterial, and rhizocephalan diseases and parasites of the blue crab (*Callinectes sapidus*). *Journal of Invertebrate Pathology* 127: 54-62.
- Chua, V. L., Q. Phillipps, H.-C. Lim, S.S. Taylor, D.F. Gawin, M.A. Rahman, R.G. Moyle, and F.H. Sheldon. 2015. Phylogeography of three endemic birds of Maratua Island, a potential archive of Bornean biogeography. *Raffles Bulletin of Zoology* 63: 259-269.
- Rogers H.A., S.S. Taylor, J.P. Hawke, and J.A. Anderson Lively. 2015. Prevalence and distribution of three protozoan symbionts in blue crab (*Callinectes sapidus*) populations across Louisiana, USA. *Diseases of Aquatic Organisms* 114:1-10.
- Rogers, H.A., S.S. Taylor, J.P. Hawke, E.J.Schott, and J.A. Anderson Lively. 2015. Disease, parasite, and commensal prevalences for blue crab *Callinectes sapidus* at shedding facilities in Louisiana, USA. *Diseases of Aquatic Organisms* 112: 207-217.

- Woltmann, S.**, P.C. Stouffer, **C.M. Bergeon Burns**, M.S. Woodrey, M.F. Cashner, and S.S. Taylor. 2014. Population genetics of Seaside Sparrow (*Ammodramus maritimus*) subspecies along the Gulf of Mexico. PLoS ONE 9(11): e112739. doi:10.1371/journal.pone.0112739
- Bergeon Burns C.M.**, J.A. Olin, **S. Woltmann**, P.C. Stouffer, and S.S. Taylor. 2014. Effects of oil on terrestrial vertebrates: predicting impacts of the Macondo blowout. BioScience 64:820-828.
- Brzeski, K.E.**, D.R. Rabon, M.J. Chamberlain, L.P. Waits, and S.S. Taylor. 2014. Inbreeding and inbreeding depression in endangered red wolves (*Canis rufus*). Molecular Ecology 23:4241-4255.
- Cerame, B.**, J.A. Cox, R.T. Brumfield, J.W. Tucker, and S.S. Taylor. 2014. Adaptation to ephemeral habitat may overcome natural barriers and severe habitat fragmentation in a fire-dependent species, the Bachman's Sparrow (*Peuceae aestivalis*). PLoS ONE 9:e105782.
- Taylor, S.S., **S. Woltmann**, A. Rodriguez, and W.E. Kelso. 2013. Hybridization of white, yellow and striped bass in the Toledo Bend Reservoir. Southeastern Naturalist 12:514-522.
- Sheldon, F.H., C.H. Oliveros, S.S. Taylor, B. McKay, H.-C. Lim, M.A. Rahman, H. Mays, and R.G. Moyle. 2012. Molecular phylogeny and insular biogeography of the lowland tailorbirds of Southeast Asia (Cisticolidae: Orthotomus). Molecular Phylogenetics and Evolution 65:54-63.
- Taylor, S.S., D.A. Jenkins and P.A. Arcese. 2012. Loss of Mhc and neutral variation in Peary caribou: genetic drift is not mitigated by balancing selection or exacerbated by Mhc allele distributions. PLoS ONE 7:e36748.
- Moyle, R.G., S.S. Taylor, C.H. Oliveros, H.-C. Lim, C.L. Haines, M.A. Rahman and F.H. Sheldon. 2011. Diversification of an endemic Southeast Asian genus: Phylogenetic relationships of the Spiderhunters (Aves: Nectariniidae). Auk 128:777-788.
- Taylor, S.S., R. Sardell, J.M. Reid, T. Bucher, N.G. Taylor, P.A. Arcese, and L.K. Keller. 2010. Inbreeding coefficient and heterozygosity-fitness correlations in unhatched and hatched song sparrow nestmates. Molecular Ecology 19:4454-4461.
- Lim, H.-C., F. Zou, S.S. Taylor, B.D. Marks, R.G. Moyle, G. Voelker, and F.H. Sheldon. 2010. Phylogeny of Magpie-Robins and Shamas (Aves: Turdidae: *Copsychus* and *Trichixos*): implications for island biogeography in Southeast Asia. Journal of Biogeography 37:1894-1906.

- Jamieson, I.G., S.S. Taylor, L. Tracy, D.P. Armstrong, and H. Kokko. 2009. Why some species of birds do not avoid inbreeding: data and new theory from New Zealand robins and saddlebacks. *Behavioural Ecology* 20:575-584.
- Taylor, S.S., S. Boessenkool, and I.G. Jamieson. 2008. Genetic monogamy in two long-lived New Zealand passerines. *Journal of Avian Biology* 39:579-583.
- Taylor, S.S. and I.G. Jamieson. 2008. No evidence for loss of genetic variation following sequential translocations in extant populations of a genetically depauperate species. *Molecular Ecology* 17:545-556.
- Taylor, S.S., I.G. Jamieson, and G.P. Wallis. 2007. Historical and contemporary levels of genetic variation in two New Zealand passerines with different histories of decline. *Journal of Evolutionary Biology* 20:2035-2047.
- Taylor, S.S. and I.G. Jamieson. 2007. Factors affecting the survival of founding individuals in translocated New Zealand saddlebacks. *Ibis* 149:783-791.
- Boessenkool, S., S.S. Taylor, C.K. Tepolt, J. Komdeur, and I.G. Jamieson. 2007. Large mainland populations of South Island robins retain greater genetic diversity than offshore island refuges. *Conservation Genetics* 8:705-714.
- Taylor, S.S. and I.G. Jamieson. 2007. Discriminant function analysis for sexing South Island saddlebacks. *Notornis* 54:61-65.
- Taylor, S.S., I.G. Jamieson, and D. Armstrong. 2005. Successful island reintroductions of New Zealand robins and saddlebacks with small numbers of founders. *Animal Conservation* 8:415-420.
- Taylor, S.S., M.L. Leonard, D.J. Boness, and P. Majluf. 2004. Humboldt penguins *Spheniscus humboldti* change their foraging behaviour following breeding failure. *Marine Ornithology* 32:63-67.
- Taylor, S.S., M.L. Leonard, D.J. Boness, and P. Majluf. 2002. Foraging in Humboldt penguins (*Spheniscus humboldti*) during the chick-rearing period: general patterns, sex differences, and recommendations to reduce incidental catches in fishing nets. *Canadian Journal of Zoology* 80:700-707.
- Taylor, S.S., M.L. Leonard, D.J. Boness, and P. Majluf. 2001. Foraging trip duration increases for Humboldt penguins tagged with recording devices. *Journal of Avian Biology* 32:369-372.
- Taylor, S.S., M.L. Leonard, and D.J. Boness. 2001. Aggressive nest intrusions by male Humboldt penguins. *Condor* 103:162-165.

PUBLICATIONS IN REVIEW

Ford, R., W. Selman, and S.S. Taylor. In review. Low levels of hybridization between Mottled Ducks (*Anas fulvigula maculosa*) and Mallards (*A. platyrhynchos*) in the western Gulf Coast. Condor.

Perez-Umphrey, A.M., Bergeon Burns, C.M., P.C. Stouffer, S. Woltmann, and S.S. Taylor. In prep. Polycyclic aromatic hydrocarbon exposure in Seaside Sparrows (*Ammodramus maritimus*) following the 2010 Deepwater Horizon oil spill.

OTHER PUBLICATIONS IN REFEREED JOURNALS

Taylor, S.S. 2014. Book review: "The Birds of New Zealand: A Photographic Guide" by Paul Scofield and Brent Stephenson. Journal of Field Ornithology 85:224-225.

Taylor, S.S. 2012. Book review: "Seabird Genius: The Story of L.E. Richdale, the Royal Albatross, and the Yellow-eyed Penguin" by Neville Peat. Journal of Field Ornithology 83:327-328.

Taylor, S.S. 2012. Book review: "Avian Architecture: How Birds Design, Engineer, and Build" by Peter Goodfellow. Journal of Field Ornithology 83:102-103.

MAGAZINE ARTICLES

Taylor, S.S. 2012. Genetics and the management of birds, reptiles and mammals. Louisiana Agriculture 55:16-17.

Taylor, S.S. 2003. Book review: "Crows and Jays" by Steve Madge and Hilary Burn. Nova Scotia Birds 45:42.

Taylor, S.S., I. McLaren, and K. Dillon. 2002. Return of breeding Laughing Gulls to Atlantic Canada. Birder's Journal 11:58-60.

Taylor, S.S. 2002. Book review: "Who killed the Great Auk?" by Jeremy Gaskell. Nova Scotia Birds 44:39.

CONFERENCE PROCEEDINGS

Stouffer, P.C., S.S. Taylor, **S. Woltmann,** and **C.M. Bergeon Burns.** 2013. Staying alive on the edge of the earth: response of Seaside Sparrows (*Ammodramus maritimus*) to salt marsh inundation, with implications for storms, spills, and climate change. Pages 82-93 in Proceedings of the 4th Louisiana Natural Resources Symposium (T. F. Shupe, and M. S. Bowen, Eds.).

PUBLISHED CONFERENCE ABSTRACTS

Bonisoli-Alquati, A., P.C. Stouffer, and S. S. Taylor. 2016. Ecological effects of the Deepwater Horizon oil spill: a meta-analysis. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Tampa, FL, 1-4 February.

- Woltmann, S., P.C. Stouffer, **A. Bonisoli Alquati**, C. Bergeon Burns, J. Olin, and S.S. Taylor. 2016. Living on the edge: understanding Seaside Sparrows in the wake of the Deepwater Horizon oil spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Tampa, FL, 1-4 February.
- Smith, K.**, S.S. Taylor and W.K. Kelso. 2015. Temporal variation in genetic diversity and population size of endangered Smalltooth Sawfish (*Pristis pectinata*). Louisiana Association of Professional Biologists and The Wildlife Society Louisiana Chapter Symposium on Recent Natural Resource Research in Louisiana with a Focus Session on The Endangered Species Act Impacts on Habitat Management. Baton Rouge, LA, 20-21 August. Conference oral presentation.
- Ford, R.** 2015. Hybridization and population structure of western Gulf Coast Mottled Ducks. Louisiana Association of Professional Biologists and The Wildlife Society Louisiana Chapter Symposium on Recent Natural Resource Research in Louisiana with a Focus Session on The Endangered Species Act Impacts on Habitat Management. Baton Rouge, LA, 20-21 August. Conference oral presentation.
- Elbers, J.P.** and S.S. Taylor. 2015. Genetic variation at immune genes and susceptibility to mycoplasmal upper respiratory tract disease in gopher tortoises. Louisiana Association of Professional Biologists and The Wildlife Society Louisiana Chapter Symposium on Recent Natural Resource Research in Louisiana with a Focus Session on The Endangered Species Act Impacts on Habitat Management. Baton Rouge, LA, 20-21 August. Conference oral presentation.
- Brzeski, K.E.**, M. Chamberlain, and S.S. Taylor. 2015. Genetic variation at MHC and Toll-like receptor genes and their relationship to disease in endangered red wolves and sympatric coyotes. 27th International Congress for Conservation Biology, Montpellier, France, 2-6 August. Conference poster presentation.
- Elbers, J.P.** and S.S. Taylor. 2015. Building an immunome for the gopher tortoise: is there a genetic basis to upper respiratory tract disease? 27th International Congress for Conservation Biology, Montpellier, France, 2-6 August. Conference poster presentation.
- Brzeski, K.E.**, M.J. Chamberlain, and S.S. Taylor. 2015. Endangered red wolves: assessing inbreeding, immune gene variation, and disease. 2nd Annual Wildlife & Fisheries Science Symposium, Humboldt State University, Arcata CA, May 1. Conference oral presentation*
- Bergeon Burns, C.M.**, J. Olin, **S. Woltmann**, P.C Stouffer, and S.S. Taylor. 2015. Annual variation in CYP1A gene expression and fatty acid composition in liver of Seaside Sparrows from oiled and unoled salt marsh following the BP Deepwater Horizon spill. Midwest Ecology and Evolution Conference, Bloomington, Indiana, USA, March 28-29. Conference poster presentation.*

- Bergeon Burns, C.M., S. Woltmann**, P.C Stouffer, and S.S. Taylor. 2015. Seaside Sparrow CYP1A gene expression on oiled and unoiled salt marsh in Barataria Bay, Louisiana. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, Texas, USA, February 16-19. Conference oral presentation (presented by S. Taylor).
- Woltmann, S.**, P.C Stouffer, **C.M. Bergeon Burns**, and S.S. Taylor. 2015. A modern view of diversity and research needs among Seaside Sparrow populations along the Gulf of Mexico. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, Texas, USA, February 16-19. Conference poster presentation.
- Olin J.A., **C.M. Bergeon Burns**, W. Bam, L. Hooper-Bui, S.S. Taylor, and P.C. Stouffer. 2015. Intraspecific differences in the food resources used by Seaside Sparrow (*Ammodramus maritimus*): a consequence of prey availability? Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, Texas, USA, February 16-19. Conference poster presentation.
- Brzeski, K.E.**, B. Bartel, D.R. Rabon, K. Wolf, W. Waddell, and S.S. Taylor. 2014. Infectious disease and red wolf conservation: baseline pathogen prevalence. The Wildlife Society Annual Conference, Pittsburgh, PA. October 24-30. Conference poster presentation.*
- Bergeon Burns, C.M., S. Woltmann**, P.C Stouffer, and S.S. Taylor. 2014. Physiological and ecological effects of the Deepwater Horizon oil spill on Seaside Sparrows. American Ornithologists' Union, Estes Park, Colorado, USA, September 23-28. Conference oral presentation (presented by S. Taylor).
- Cerame, B.**, J.A. Cox, R.T. Brumfield, J.W. Tucker, and S.S. Taylor. Genetic structure in Bachman's Sparrow (*Peuceae aestivalis*) despite natural barriers and habitat fragmentation: adaptation to ephemeral habitat in a fire-dependent species? American Ornithologists' Union, Estes Park, Colorado, USA, September 23-28. Conference oral presentation (presented by S. Taylor).
- Woltmann, S.**, P.C Stouffer, M.S. Woodrey, **C.M. Bergeon Burns**, and S.S. Taylor. 2014. Population genetics of the Gulf Coast subspecies of the Seaside Sparrow (*Ammodramus maritimus*): subspecies validity and conservation implications. American Ornithologists' Union, Estes Park, Colorado, USA, September 23-28. Conference oral presentation .
- Ford, R.**, W. Selman, and S.S. Taylor. 2014. Hybridization and population structure of western Gulf Coast Mottled Ducks. Southeastern Association of Fish and Wildlife Agencies, Destin, Florida, USA, October 19-22. Conference oral presentation.
- Olin J.A., **C.M. Bergeon Burns**, W. Bam, L. Hooper-Bui, P.C. Stouffer, and S.S. Taylor. 2014. Stable isotopes reveal intra-specific differences in the food webs utilized by Seaside Sparrows (*Ammodramus maritimus*). Society of Limnology & Oceanography, Portland, Oregon, USA, May 18-23. Conference oral presentation.*

- Olin J.A., **C.M. Bergeon Burns**, P.C. Stouffer, and S.S. Taylor. 2014. Variation in resource use by Seaside Sparrows (*Ammodramus maritimus*) in Louisiana marshes based on stable isotopes and fatty acid profiles. North American Benthological Society, Jacksonville, Florida, USA, March 18-23. Conference oral presentation.*
- Bergeon Burns, C.M., S. Woltmann**, P.C. Stouffer, and S.S. Taylor. 2014. Consequences of the Deepwater Horizon oil spill on breeding Seaside Sparrows. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Mobile, Alabama, 26-29 January. Conference oral presentation.
- Bergeon Burns, C.M., S. Woltmann**, S.S. Taylor, and P.C. Stouffer. 2014. Physiological responses of Seaside Sparrows to the Deepwater Horizon oil spill. Society for Integrative and Comparative Biology, Austin, Texas, 3-7 January. Conference poster presentation.*
- Taylor, S.S., D.A. Jenkins, and P.A. Arcese. 2013. Loss of variation at neutral and Mhc loci in Peary caribou over 100 years: drift is more important than selection. Congress of the European Society for Evolutionary Biology, Lisbon, Portugal, 19-24 August. Conference poster presentation.
- Brzeski, K.E.**, D.R. Rabon, M.J. Chamberlain, and S.S. Taylor. 2013. MHC variation and its effects on red wolf fitness. Congress of the European Society of Evolutionary Biology, Lisbon, Portugal, 19-24 August. Conference poster presentation.
- Bergeon Burns, C.M., S. Woltmann**, S.S. Taylor, and P.C. Stouffer. 2013. Seaside Sparrow responses to the Deepwater Horizon oil spill. 131st Meeting of the American Ornithologists' Union, Chicago, Illinois, 13-17 August. Conference poster presentation.
- Taylor, S.S., **S. Woltmann**, P.C. Stouffer, and **C.M. Bergeon Burns**. 2013. Effects of the Macondo oil spill on Seaside Sparrows. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, Louisiana, 21-23 January. Conference oral presentation.
- Woltmann, S.**, S.S. Taylor, and P.C. Stouffer. 2012. Seaside Sparrow biology following the BP Deepwater Horizon oil spill. 5th North American Ornithological Conference, Vancouver, Canada, 14-18 August. Conference poster presentation.
- Cerame, B.**, R.T. Brumfield, J.A. Cox, J.W. Tucker, and S.S. Taylor. 2012. Genetic structure of Bachman's Sparrow populations in Louisiana. 5th North American Ornithological Conference, Vancouver, Canada, 14-18 August. Conference poster presentation.
- Taylor, S.S., D.A. Jenkins and P.A. Arcese. 2011. Using historical and contemporary DNA in Peary caribou to examine the relative loss of microsatellite and Mhc variation following population bottlenecks. 25th International Congress for Conservation Biology, Auckland, New Zealand, 5-9 December. Conference oral presentation.

- Woltmann, S., K. Daroca,** and S.S. Taylor. 2011. A preliminary assessment of hybridization of *Morone* species in the Toledo Bend Reservoir, Louisiana. Southeastern Fishes Council, Chattanooga, Tennessee, 10-11 November. Conference poster.*
- Brzeski, K.E.,** D.R. Rabon, M.J. Chamberlain, and S.S. Taylor. 2011. Inbreeding in wild red wolves. The Wildlife Society Annual Conference, Waikoloa, Hawaii, 5-10 November. Conference poster presentation.*
- Elbers, J.P.** and S.S. Taylor. 2011. Genetic variation at Mhc loci and susceptibility to mycoplasmal upper respiratory tract disease in gopher tortoises. 33rd Annual Gopher Tortoise Council Meeting. Orlando, Florida, 15 October. Poster presentation.*
- Taylor, S.S., D.A. Jenkins and P.A. Arcese. 2010. Loss of microsatellite and Mhc variation following population bottlenecks in Peary caribou. Fourth International Symposium on Biomolecular Archaeology, Copenhagen, The Netherlands, 8-10 September. Conference poster presentation.
- Taylor, S.S., and I.G. Jamieson . 2005. Genetic variation in saddlebacks following population bottlenecks. 8th Annual New Zealand Molecular Ecology Meeting, Wainui, New Zealand, 2-4 December. Conference oral presentation.
- Taylor, S.S., I.G. Jamieson, and D. Armstrong. 2005. Successful reintroductions of New Zealand saddlebacks and robins with small numbers founders. XIX Annual Meeting of the Society for Conservation Biology, Brasilia, Brazil, 15-19 July. Conference oral presentation.
- Taylor, S.S. and I.G. Jamieson. 2004. Genetic variation in saddlebacks following population bottlenecks. NZ Ecological Society Conference, Invercargill, New Zealand, 29 August - 2 September. Conference oral presentation.
- Taylor, S.S. and I.G. Jamieson. 2004. Genetic variation in saddlebacks following population bottlenecks. 7th International Conference on Ancient DNA & Associated Biomolecules, Brisbane, Australia, 10-17 July. Conference poster presentation.
- Taylor, S.S. 2001. Current status of the Nova Scotia Herpetofaunal Atlas. 6th Annual Meeting of the Canadian Amphibian and Reptile Conservation Network, Cornwall, PEI, Canada 18-22 October. Oral presentation.
- Taylor, S.S. 2000. Humboldt penguin foraging patterns: identifying conflicts with fisheries. 2000. 118th Meeting of the American Ornithologists' Union, St. John's, Canada, 14-19 August. Conference oral presentation.

*Did not attend the meeting.

WORKSHOPS AND INVITED SEMINARS

Workshops

National Science Foundation CAREER Workshop, Louisiana State University, 8-9 November 2011.

Advanced Bird Banding Workshop with Peter Pyle, 16-18 April 2011.

National Science Foundation CAREER Proposal Writing Workshop, Connecticut, 4-5 April 2011.

Conservation Genetics Workshop, Flathead Lake BioStation, Montana, 31 August-4 September 2009.

Invited Seminars

Taylor, S.S. 2015. A tale of two sparrows: population structure in two local sparrow species, the Seaside and Bachman's Sparrow. LSU Museum of Natural History, Baton Rouge, LA, 6 March.

Taylor, S.S. 2013. Genetics and the conservation, management, and ecology of species. LSU Science Club, Baton Rouge, LA, 10 October.

Taylor, S.S., D.A. Jenkins and P.A. Arcese. 2012. Using historical and contemporary DNA in Peary caribou to examine the relative loss of microsatellite and Mhc variation following population bottlenecks. Biology Department, University of Louisiana at Lafayette, 4 October.

Taylor, S.S. 2012. Exploring the world by degrees. Baton Rouge Audubon Society, Baton Rouge, LA, 27 September.

Taylor, S.S. 2010. Bottlenecks, translocations and genetic variation in New Zealand saddlebacks and robins. Biology Department, Southeastern Louisiana University, 19 February.

Taylor, S.S. 2008. Bottlenecks, translocations and genetic variation in New Zealand saddlebacks. Ecology, Evolution and Behaviour Seminar Series, University of British Columbia, Vancouver, BC, 26 March.

Taylor, S.S. 2008. Ancestral genetic variation in New Zealand saddlebacks and robins and its consequences for management. Canadian Wildlife Service, Delta, BC, 18 March.

Taylor, S.S., S. Boessenkool, and I.G. Jamieson. 2008. Genetic variation and management of saddlebacks and robins. Department of Conservation, Te Anau, New Zealand, 26 February.

Taylor, S.S. 2006. The genetic and conservation consequences of species translocations in New Zealand. Department of Zoology, University of Otago, Dunedin, New Zealand, 22 September.

Taylor, S.S., and I.G. Jamieson. 2006. Genetic variation and management of saddlebacks and robins. New Zealand Ornithological Society, Dunedin, New Zealand, 23 August.

Taylor, S.S. 2002. The Nova Scotia Herpetofaunal Atlas. Blomidon Naturalist Society, Wolfville, NS, June.

Taylor, S.S. 2002. Humboldt penguins: diving behaviour and male nest intruders. Nova Scotia Bird Society, Halifax, NS, 28 March.

RESEARCH SUPPORT

Gulf of Mexico Research Initiative. 1 January 2015 – 31 December 2017. Coastal Waters Consortium, RFP-IV: Marsh Vertebrates. **Funded** for \$851,616. **PI: Sabrina S. Taylor**; Co-PI: Philip Stouffer.

Louisiana Department of Wildlife and Fisheries. July 2015 – July 2018. Stock identification of Louisiana's largemouth bass fisheries. **Funded** for \$192,000. PI: William E. Kelso; **Co-PIs: Sabrina S. Taylor** and Michael Kaller.

National Science Foundation Doctoral Dissertation Improvement Grant (to PhD student Kristin Brzeski). 1 July 2013 – 30 June 2015. Understanding mate choice and hybridization in the endangered red wolf. **Funded** for \$17,040. **PI: Sabrina S. Taylor**; Co-PI: Kristin Brzeski.

Gulf Coast Joint Venture. August 2012 – July 2015. Hybridization in western Gulf Coast Mottled Ducks. **Funded** for \$29,900. **PI: Sabrina S. Taylor**; Co-PI: William Selman.

Louisiana Department of Wildlife and Fisheries. July 2012 – June 2015. Stock identification of Louisiana's largemouth bass fisheries. **Funded** for \$192,000. PI: William E. Kelso; **Co-PIs: Sabrina S. Taylor** and Michael Kaller.

Louisiana Department of Wildlife and Fisheries State Wildlife Grant. July 2012 – June 2014. Effective population size and genetic connectivity of Seaside Sparrows in Louisiana. **Funded** for \$34,398. **PI: Sabrina S. Taylor**; Co-PIs: Philip Stouffer and Stefan Woltmann.

Gulf of Mexico Research Initiative. September 2011 – December 2014. The effects of the Macondo oil spill on coastal ecosystems: marsh birds. **Funded** for \$503,571. **PI: Sabrina S. Taylor**; Co-PI: Philip Stouffer.

LA Board of Regents Research Competitiveness Subprogram. July 2011 – June 2014. Genetic population structure in Bachman's Sparrow. **Funded** for \$74,000. **PI: Sabrina S. Taylor**.

US Fish and Wildlife Service. January 2011 – December 2014. Inbreeding and mate choice in red wolves. **Funded** for \$12,160. **PI: Sabrina S. Taylor.**

Louisiana Department of Wildlife and Fisheries. July 2010 – June 2012. Assessment of the hybrid status of Toledo Bend Reservoir striped bass. **Funded** for \$120,000. **PI: Sabrina S. Taylor;** Co-PI: William Kelso.

LA EPSCoR Pilot Fund. January 2010 – September 2010. Mhc variation, microsatellite variation and incidence of avian malaria in song sparrows. **Funded** for \$10,000. **PI: Sabrina S. Taylor.**

LA Board of Regents Link Fund. July 2009 – August 2009. Measuring avian Mhc variation for conservation genetics. **Funded** for \$3000. **PI: Sabrina S. Taylor.**

OTHER AWARDS AND SCHOLARSHIPS

LSU Alumni Association Rising Faculty Research Award, 2015 (\$5,000)

NSERC Postdoctoral Fellowship, 2007-2009 (\$80,000)

University of Otago Division of Science International Fees Scholarship, 2005-2006 (\$25,500)

International Federation of University Women, A. Vibert Douglas Fellowship, 2005 (\$12,000)

NSERC Julie Payette Award, 2003-2004 (\$50,000)

Dalhousie Graduate Scholarship, 1998-2000 (\$14,000)

Innovative Research Award, 1999, Canadian International Development Agency (\$10,000)

Kathleen S. Anderson Award, 1999, Manomet Center for Conservation Sciences (\$500)

Oregon Zoo Range Country Conservation Grant 1999-2000 (\$6,500)

American Ornithologists' Union, Marcia Brady Tucker Travel Award 2000 (\$200)

POST-DOCTORAL FELLOWS AND THESES/DISSERTATIONS DIRECTED

A total of three post-doctoral fellows (A. Bonisoli Alquati, C.M. Bergeon Burns and S. Woltmann) advised.

A total of three PhD, five MS, and four Honor's students advised. Please see below for more information.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

LSU Science Club 2014 - present

Society for Conservation Biology 2003-present

American Ornithologists' Union 1999-2001 and 2010-present

AOU Elective Member 2014-present

Association of Field Ornithologists 2014-present

Canadian Federation of Graduate Women 2007-2009

New Zealand Federation of Graduate Women 2003-2007

New Zealand Society for Biochemistry and Molecular Biology 2003-2007

New Zealand Ecological Society 2003-2006

Society of Canadian Ornithologists 2000-2009
Nova Scotia Federation of Naturalists 2000-2003
Nova Scotia Bird Society 2000-2003
Animal Behavior Society 1999-2001

OUTREACH

Research presentation to the Southern Association of Marine Educators Annual Meeting, LUMCON, Cocodrie, LA, November 6-8, 2015.

Gulf Lagniappe Adult Education, Seaside Sparrows, LUMCON, Cocodrie, LA, 8 March 2014.

Marsh Edge-U-Cation Teacher Professional Development, Seaside Sparrows, LUMCON, 1-2 March 2013

Superintendent of the Environmental Threats Contest, LSU 4-H University, 2010 – present.

Judge at the Louisiana Region VII Science and Engineering Fair, 2010, 2011 & 2012

AgMagic Volunteer, May 2011 and April 2010.

LSU Day Volunteer, November 2010.

Volunteer fund-raiser for the Nova Scotia Nature Trust, 2002 & 2003

Judge at the Halifax Regional Science Fair, 1998 & 1999

UNIVERSITY SERVICE

LSU Institutional Animal Care and Use Committee 2015 - present

LSU Faculty Senate 2013-present.

Organizer of the School of Renewable Natural Resources Seminar Series, 2013-present.

Editor for the School of Renewable Natural Resources “Newsletter” and “Research Matters” publications, 2012-present.

Undergraduate Faculty Advisor 2011-present.

College of Agriculture Student Recognition and Awards Committee Member, 2010-present.

School of Renewable Natural Resources Outreach/Communications Committee Member, 2010-present.

School of Renewable Natural Resources Recruitment Committee Member, 2010-present.
Electrical Load Shed Committee 2015

Organized electrical modifications to provide emergency generator power for fridges and freezers in the School of Renewable Natural Resources, 2013.

LSU AgCenter Biotechnology Laboratory Advisory Committee Member, 2009-2010.

PROFESSIONAL SERVICE

NSF Panelist 2013, 2014, 2015 and 2016.

Book Review Editor for the Journal of Field Ornithology 2013-present

Associate Editor for Animal Conservation 2012-present

Reviewer for Auk, Behavioral Ecology and Sociobiology, Biological Journal of the Linnean Society, Bioscience, BMC Evolutionary Biology, Condor, Conservation Genetics, Fisheries, Heredity, Ibis, International Journal of Immunogenetics, Journal of Avian Biology, Journal of Fish Biology, Journal of Wildlife Management, Molecular Ecology, PLoS ONE, Southeastern Naturalist, and Trends in Ecology and Evolution.

TEACHING ACTIVITIES

COURSES TAUGHT

Assigned teaching responsibilities (40% appointment)

RNR 4101 Integrating Natural Resources Management, Policy and Human Dimensions (Capstone), team taught, 4 credit hours
Fall 2014, n = 21 students
Fall 2013, n = 16 students
Spring 2012, n = 38 students

RNR 4103 Conservation Genetics, 3 credit hours
Spring semester 2015, n = 35 students
Spring semester 2014, n = 35 students
Spring semester 2013, n = 30 students
Spring semester 2012, n = 29 students
Spring semester 2011, n = 41 students
Spring semester 2010, n = 29 students

HNRS 4000 Thesis, 3 credit hours
Spring 2014, n = 1 student
Fall 2013, n = 1 student

Spring 2013, n = 1 student
Fall 2012, n = 1 student

RNR 4061 Problems in Natural Resource Management, 3 credit hours
Fall 2013, n = 1 student
Spring 2013, n = 1 student

RNR 7016 Current Topics and Techniques in Conservation Science, 3 credit hours
Spring 2015, n = 6
Spring 2013, n = 8

RNR 7029 Advanced Topics in Renewable Natural Resources, 3 credit hours
Summer 2014, n = 3 students
Spring 2014, n = 1 student

RNR 7072 Graduate Seminar in Wildlife, 1 credit hour
Spring 2014, n = 7 students
Summer 2011, n = 10 students

RNR 8900 Resource Problems in Natural Resources, 3 credit hours
Summer 2013, n = 6 students
Summer 2012, n = 3 students

GRADUATE COMMITTEES

Major Professor PhD Degree

Kristin Brzeski, School of Renewable Natural Resources

Current student: Graduated December 2015

Awards, Grants and Honors

2016-2018 NSF Post Doctoral Fellowship

2013-2015 NSF Doctoral Dissertation Improvement Grant

2015 Clark M. Hoffpauer Scholarship, School of Renewable Natural Resources

2012 American Society of Mammalogists, Grant-in-Aid, \$1,500

2012 Point Defiance Zoo & Aquarium Conservation Committee Grant, \$5,000

2012 Point Defiance Zoo & Aquarium Conservation Committee Grant, \$5,000

2011-2013 Rockefeller Louisiana State Wildlife Scholarship, \$6,000

Jean Elbers, School of Renewable Natural Resources

Current student: Anticipated graduation date December 2016

Awards, Grants and Honors

2011-2016 Gilbert Fellowship (\$27,000/year)

2016 Clark M. Hoffpauer Scholarship, School of Renewable Natural Resources

Anna Perez-Umphrey, School of Renewable Natural Resources
Current student: Anticipated graduation date August 2020

Major Professor MS Degree

Blain Cerame, School of Renewable Natural Resources
Graduated December 2013

Awards, Grants and Honors

2012-2013 Rockefeller Louisiana State Wildlife Scholarship, \$6,000

Robert Ford, School of Renewable Natural Resources

Current student: Graduated December 2015

2013-2014 Rockefeller Louisiana State Wildlife Scholarship, \$6,000

Kelcee Smith, School of Renewable Natural Resources

Current student: Anticipated graduation date August 2017

2016 Sigma-Xi Grant-in-Aid of Research

Amie Settlekowski, School of Renewable Natural Resources

Current student: Anticipated graduation date August 2018

Allison Snider, School of Renewable Natural Resources

Current student: Anticipated graduation date August 2018

Major Professor Undergraduate Honor's Thesis advisor

Kelsey DaRoca, School of Renewable Natural Resources

Graduated August 2011

Bonnie Slaton, School of Renewable Natural Resources

Graduated December 2013

Jocelyn Miller, School of Renewable Natural Resources

Graduated May 2014

Committee Member for PhD Students

Heather Kirk-Ballard, School of Renewable Natural Resources

Graduated May 2012

Yalma Vargas Rodriguez, Biological Sciences

Graduated May 2013

Jared Wolfe, School of Renewable Natural Resources

Current student

Angelica Hernandez, School of Renewable Natural Resources
Current student

Paul van Els, LSU Museum of Natural Sciences and Biological Sciences
Current student

Liu Yue, School of Renewable Natural Resources
Current student

Dean's Representative

Hal Needham, Department of Geography and Anthropology
Graduated May 2014

Vivien Chua, LSU Museum of Natural Sciences and Biological Sciences
Current student

Caleb McMahan, LSU Museum of Natural Sciences and Biological Sciences
Graduated August 2015

Nicole Turygin, LSU Department of Psychology
Graduated May 2016

Jillian Bambrick Banks, Department of Geology and Anthropology
Graduated August 2016

Committee Member for MS Students

John Henry Harrelson, School of Renewable Natural Resources
Graduated August 2011

Holly Rogers, School of Renewable Natural Resources
Graduated May 2014

Committee Member for Undergraduate Honor's Theses

Chloe Euston, School of Journalism
Graduated May 2012

Lauren Oliver, LSU Museum of Natural Sciences and Biological Sciences
Graduated May 2012

Oliver Sinquefield, LSU Museum of Natural Sciences and Biological Sciences
Graduated May 2014

Kalli Trahan, LSU Museum of Natural Sciences and Biological Sciences
Graduated May 2014

Ellen Foster, LSU Biological Sciences

PARTICIPATION IN WORKSHOPS, SEMINARS AND CONFERENCES ON TEACHING

LSU Graduate School

17 May 2016 Leonard Cassuto "Inside the Graduate Student Mess"

19 May 2016 Graduate School Discussion with Leonard Cassuto

RNR Faculty Workshop

17 & 18 May 2016 "Science Communication"

LSU Faculty Workshop

4 June 2014 "Increasing Engagement in Large Classes at LSU"

LSU Communication Across the Curriculum Faculty Summer Institute Seminars

22 May 2014 "Maximizing Moodle in Communication Intensive Courses"

22 May 2014 "Creating Synergistic Course Materials"

21 May 2014 "Beyond Bullet Points – Designing Powerful Visual Presentations"

20 May 2014 "Teaching, Assigning, and Giving Good Feedback on Speaking Projects"

21 May 2013 "Giving Effective & Efficient Feedback on Writing & Speaking Projects"

21 May 2013 "Teaching Writing in the Disciplines: Myths and Methods"

23-25 May 2012 Summer Institute participant

LSU Communication Across the Curriculum Seminars

5 November 2014 "Unpacking Wikipedia: Creative Uses in the Classroom"

6 November 2014 "Designing Assignments & Planning to Teach with Wikipedia"

17 Oct 2013 "Grading Strategies"

25 Sep 2013 "Feedback Strategies"

LSU College of Agriculture Annual Dean's Teaching Conference

12 Jan 2016 "Student retention and engagement"

8 Jan 2013 "Technological Innovations in the College of Agriculture at LSU"

Out of town/at conferences in other years

AWARDS THAT SHOW RECOGNITION OF TEACHING ACTIVITIES

Gamma Sigma Delta Award of Merit Teacher Honor Roll, 2015.

Tiger Athletic Foundation Award for Outstanding Teacher, LSU College of Agriculture
2014.