

CURRICULUM VITAE

Paul Leonard Leberg

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PERSONAL INFORMATION

Date of Birth: July 23, 1960

Married: Mary Catherine Hager, freelance science writer/editor

Adult Children: Catherine and Sam

RESEARCH INTERESTS

Environmental Biology, Conservation Biology, Ecology, Biometrics, Molecular Ecology,
Coastal Ecology and restoration, and Biotic Consequences of Climate
Variation

EDUCATION

Ph.D., University of Georgia (Ecology, 1990)

M.S., University of Memphis (Biology, 1985)

B.S., University of Wisconsin, Stevens Point (Wildlife and Biology, 1982)

PROFESSIONAL EXPERIENCE

2012-present. Head, Biology Department, University of Louisiana

2012-present John Chance Board of Regents Support Fund Professorship,
University of Louisiana

2007 Foundation Distinguished Professor, University of Louisiana Foundation

2006-2012 Fritz Lang Board of Regents Support Fund Professorship in
Environmental Biology, University of Louisiana

2003-present Professor: Department of Biology, University of Louisiana

1992-2003 Assistant and Associate Professor: Department of Biology, University of
Louisiana

1990-91 Post-Doctoral Research Associate: Center for Theoretical and Applied
Genetics, Rutgers University

PUBLICATIONS

- Hutchison, N.L., R.F. Lance, C.E. Pekins, M.E. Noble, and P.L. Leberg. 2016. Influence of geomorphology and surface features on the genetic structure of an important troglodyte, the secret cave cricket (*Ceuthophilus secretus*). *Conservation Genetics* 17:969-983
- Regmi, R., M.R. Douglas, W. J. B. Anthonysamy, M. E. Douglas and P. L. Leberg. 2016. Salinity and hydrological barriers have little influence on genetic structure of the mosquitofish in a coastal landscape shaped by climate change. *Hydrobiologia*. 777: 209–223
- Athrey, N.R.G, R.F. Lance, and P.L. Leberg. 2015. Using genealogical mapping and genetic neighborhood sizes to quantify dispersal distances in the neotropical passerine, the Black-capped Vireo. *PLOS ONE*. DOI: 10.1371/journal.pone.0140115
- Vasseur, P.L. and P.L. Leberg. 2015. Effects of habitat edges and nest-site characteristics on Painted Bunting nest success. *Journal of Field Ornithology* 86:27-40.
- Granados-Cifuentes, C., J. Neigel, P.L. Leberg, and M. Rodriguez-Lanetty. 2015. Genetic diversity of free-living *Symbiodinium* in the Caribbean: the importance of habitats and seasons. 34:927-939.
- Walter, S.T., M.R. Carloss, T.J. Hess, and P.L. Leberg. 2014. Demographic trends of Brown Pelicans in Louisiana before and after the Deepwater Horizon oil spill. *Journal of Field Ornithology* 85:421–429.
- Tobin, E. J., J.M. Visser, J.K. Peterson, and P.L. Leberg. 2014. Small-Mammal Occupancy in Freshwater Marshes of Mandalay National Wildlife Refuge, Louisiana. *Southeastern Naturalist* 13:463-474.
- Walter, S.T., J.J. Dindo, P.L. Leberg, and J. Karubian. 2014. Factors influencing Brown Pelican (*Pelecanus occidentalis*) foraging movement patterns during the breeding season. *Canadian Journal of Zoology* 92:885-891.
- Walter, S.T., M.R. Carloss, T.J. Hess, G. Athrey, and P.L. Leberg. 2013. Brown pelican movement patterns and population structure. *Condor*. 115: 788-799.
- Walter, S.T., M.R. Carloss, T.J. Hess, and P.L. Leberg. 2013. Hurricane, habitat degradation, and land loss effects on brown pelican nesting colonies, *Journal of Coastal Research*. 29:187-195
- Nyman, J.A., D.M. Baltz, M.D. Kaller, P.L. Leberg, C. Parsons Richards, R.P. Romaine, and T.M. Soniat. Likely changes in habitat quality for fish and wildlife in coastal Louisiana during the next 50 years. *Journal of Coastal Research*. Special Issue 67: 60-74.
- Hutchison, N., R.F. Lance, and P.L. Leberg. 2013. Development of novel microsatellite markers for the secret cave cricket, *Ceuthophilus secretus*. *Journal of Insect Science*, 13: 64. doi: 10.1673/031.013.6401.
- Walter, S.T., M.R. Carloss, T.J. Hess, G. Athrey, and P.L. Leberg. 2013. Brown Pelican Colony Initiation Attempts: Translocations and Decoys, *Waterbirds*. 36: 52-61.

- Athrey, N.R.G., R.F. Lance, and P.L. Leberg. 2012. How far is too close? Restricted, sex-biased dispersal in black-capped vireos. *Molecular Ecology*, 21: 4359-4370
- Purcell, K.M., A.T. Hitch, S.B. Martin, P.L. Klerks, P.L. Leberg. 2012. The role of genetic structure in the adaptive divergence of populations experiencing saltwater intrusion due to relative sea level rise. *Journal of Evolutionary Biology*. 25: 2623–2632.
- Luent, M.C., M. Collins, C. Jeske, and P.L. Leberg. 2012. Prevalence of a potentially lethal parasite of wading birds in natural and agricultural wetlands in south Louisiana. *Southeastern Naturalist*, 11: 415-422.
- Athrey, N.R.G., K.R. Barr, R.F. Lance, and P.L. Leberg. 2012. Birds in space & time: Genetic changes accompanying anthropogenic habitat fragmentation in the endangered black-capped vireo (*Vireo atricapilla*). *Evolutionary Applications*. 5: 540-552
- Burton, J.L. R. F. Lance, J. D. Westervelt and P.L. Leberg. 2012. An Individual-Based Model for Metapopulations on Patchy Landscapes-Genetics and Demography (IMPL-GD). Pages 197-209 in *Ecologist-developed Spatial-explicit Dynamic Landscape Models* (Westervelt, J.D. and G.L. Cohen) Springer Press.
- Quinn, R.A., A. Metzler, M. Thusty, R.M. Smolowitz, P.L. Leberg, and A.Y. Chistoserdov. 2012. Lesion bacterial communities of American lobsters with diet induced shell disease. *Diseases of aquatic organisms*. 98: 221–233.
- Martin, S.B. and P.L. Leberg. 2011. Influence of environmental stress on age and size at maturity: genetic and plastic responses of coastal marsh fishes to changing salinities. *Canadian Journal of Fisheries and Aquatic Sciences*, 68: 2121-2131
- Athrey, G.N., D. L. Lindsay, R. F. Lance, and P.L. Leberg. 2011. Crumbling diversity: Comparison of historical archived and contemporary natural populations indicate reduced genetic diversity and increasing genetic differentiation in the golden-cheeked warbler. *Conservation Genetics*, 12: 1345-1355
- Barr, K.R., D.L. Lindsay, N.R.G. Athrey, R.F. Lance, S.A. Tweddale, T.J. Hayden, and P.L. Leberg. 2011. Missing the forest for the gene trees: conservation genetics is more than the identification of distinct population segments. *The Auk*, 128: 792-794
- Doyle, C.M., P.L. Leberg and P.L. Klerks. 2011. Heritability of heat tolerance in a small livebearing fish, *heterandria formosa*. *Ecotoxicology* 20: 535-542.
- Hitch A.T., S.B.Martin, K.M.. Purcell, P.L. Klerks and P.L. Leberg. 2011. Interactions of salinity, marsh fragmentation and submerged aquatic vegetation on resident nekton assemblages of coastal marsh ponds. *Estuaries and Coasts* 34:653–66
- Green, C., P.L. Leberg, and M. Luent. 2010. Evaluation of aerial sampling methods for detecting waterbird colonies. *Journal of Field Ornithology*. 81: 411-419.

- Purcell, K.M., P.L. Klerks, and P.L. Leberg. 2010. Adaptation to sea level rise: does local adaptation influence the demography of coastal fish populations. *J. Fish Biology*. 77: 1209–1218
- Leberg, P.L., N.R.G. Athrey, K.R. Barr, D.L. Lindsay, R.F. Lance, J. Etterson, and R.M. Holmstrom. 2010. Implications of landscape alteration for the conservation of genetic diversity of endangered species. Pages 212-238 in *Molecular Approaches in Natural Resource Conservation* (DeWoody, A., J. Bickham, C. Michler, K. Nichols, G. Rhodes, and K. Woeste, eds). Cambridge University Press.
- Martin, S., J. Albert, and P.L. Leberg. 2010. The evolution of the poeciliid gonopodium: Integrating morphological and behavioral traits. Pages 451-454 in *Viviparous Fishes II*. (M. Uribe and H. Grier, eds.) New Life Publications, Homestead, FL.
- Martin, S.B., A.T. Hitch, K.M. Purcell, P.L. Klerks and P.L. Leberg. 2009: Life history variation along a salinity gradient in coastal marshes. *Aquatic Biology* 8: 15-28.
- Fike, J., R. Bowen, N.R.G. Athrey, P.L. Leberg, O.E. Rhodes, Jr. 2009. Development of twenty-five polymorphic microsatellite markers for the endangered red-cockaded woodpecker (*Picoides borealis*). *Conservation Genetics*. 10:1021-1023.
- Barr, K.R., D.L. Lindsay, N.R.G. Athrey, R.F. Lance, S. A. Tweddale, T.J. Hayden, and P.L. Leberg. 2008. Population structure in an endangered songbird: maintenance of genetic differentiation despite high vagility and significant population recovery. *Molecular Ecology*. 17: 3628-3639.
- Lindsay, D.L., K.R. Barr, R. Lance, S.A. Tweddale, T.J. Hayden, and P.L. Leberg. 2008. Influence of fragmentation on genetic diversity of the endangered golden-cheeked warbler, *Dendroica chrysoparia*. *Molecular Ecology*. 17: 2122 – 2133.
- Green, M.C., M.C. Luent, C.W. Jeske, T., Michot, P. L. Leberg. 2008. Comparison and assessment of aerial and ground estimates of waterbird colonies. *Journal of Wildlife Management*. 72: 697–706.
- Purcell, K. B., A.T. Hitch, P.L. Klerks, and P.L. Leberg. 2008. Adaptation as a potential response to sea-level rise: a genetic basis for salinity tolerance in populations of a coastal marsh fish. *Evolutionary Applications*. 1: 155-160.
- Athrey, N.R.G., P.L. Leberg and P.L. Klerks. 2007. Laboratory culturing and selection for increased resistance to cadmium both reduce genetic variation in the least killifish *Heterandria formosa*. *Environmental Toxicology and Chemistry*. 26: 1916-1921.
- Leberg, P.L., M.C. Green, B. A. Adams, K. M. Purcell, and M. C. Luent. 2007. Response of waterbird colonies in southern Louisiana to recent hurricanes. *Animal Conservation*. 10: 502-508.
- Leberg, P.L. and B.D. Firman. 2007. Role of inbreeding depression and purging in captive breeding and restoration programs. *Molecular Ecology*. 334-343.
- Barr, K.R., G. Dharmarajan, O.E. Rhodes Jr., R. Lance, and P.L. Leberg. 2007.

- Novel microsatellite loci for the study of the Black-capped Vireo (*Vireo atricapillus*). *Molecular Ecology Notes* 7 1067-1069.
- Hitch, A.T. and P.L. Leberg. 2007. Breeding distributions of North American bird species moving north as a result of global climate change. *Conservation Biology*. 21: 534–539.
- Heltzel, J. M. and P. L. Leberg. 2006. Effects of selective logging on breeding birds in bottomland hardwood forests in Louisiana. *Journal of Wildlife Management* 70:1416-1424.
- Green, M. C. and P. L. Leberg. 2006. Sociality among foraging Ardeidae: Does plumage coloration influence nearest neighbor pacing? *American Midland Naturalist* 156:344-352.
- Liebgold, E. B., P. R. Cabe, R. G. Jaeger, and P. L. Leberg. 2006. Multiple paternity in a salamander with socially monogamous behavior. *Molecular Ecology* 15:4153-4160.
- Green, M. C., J. L. Waits, M. L. Avery, M. E. Tobin, and P. L. Leberg. 2006. Microsatellite variation of double-crested cormorant breeding populations in eastern North America. *Journal of Wildlife Management* 70:579-583.
- Green, M. C. and P. L. Leberg. 2005. Influence of plumage colouration on prey response: Does habitat alter heron crypsis to prey? *Animal Behaviour* 70:1203-1208.
- Leberg, P. L. 2005. Genetic approaches for estimating the effective size of populations. *Journal of Wildlife Management* 69:1385–1399.
- Ferrara, F. J. and P. L. Leberg. 2005. Monitoring temporal variation in bat use of bridge roosts. *Wildlife Society Bulletin* 33:1113-1122
- Ferrara, F. J. and P. L. Leberg. 2005. Characteristics of positions selected by day-roosting bats under bridges in Louisiana. *Journal of Mammalogy* 86:729–735.
- Green, M. C. and P. L. Leberg. 2005. Flock formation and the role of plumage colouration in Ardeidae. *Canadian Journal of Zoology* 83:683-693.
- Oyler, S. and P. L. Leberg. 2005. Conservation genetics in wildlife biology *in* *Research and Management Techniques for Wildlife Investigations and Management*, 6th Edition (C. Braun, ed.). Wildlife Society, Washington, DC. Pages 632-657.
- Leberg, P. L., M. Carloss, L. Dugas, K. L. Pilgrim, L. S. Mills, M. C. Green, and D. Scognomillo. 2004. Recent record of a cougar (*Puma concolor*) in Louisiana, with notes on diet, based on analysis of fecal materials. *Southeastern Naturalist* 3:653-658 2004.
- Elderkin, C. L., E.J. Perkins, P. L. Leberg, P.L. Klerks, and R.F. Lance. 2004. Amplified fragment length polymorphism (AFLP) analysis of the genetic structure of the zebra mussel, *Dreissena polymorpha*, in the Mississippi River. *Freshwater Biology* 49:1487-1494.
- Neigel, J. E. and P. L. Leberg. 2004. A prototype object database for mitochondrial DNA variation. *Journal of Heredity* 95:85-88.

- Waits, J. L., M. L. Avery, M. E. Tobin, and P. L. Leberg. 2003. Low mitochondrial DNA variation in Double-crested Cormorants in eastern North America. *Waterbirds* 26:196-200.
- Leberg, P. L. 2002. Estimating allelic diversity: Effects of sample size and bottlenecks. *Molecular Ecology* 11:2445-2449.
- Stockwell, C. A. and P. L. Leberg. 2002. Ecological genetics and the translocation of native fishes: Emerging experimental approaches. *Western North American Naturalist* 62:32-38.
- Ji, W. and P. L. Leberg. 2002. A GIS-based approach for assessing the regional conservation status of genetic diversity: An example from the southern Appalachians. *Environmental Management* 29:531-544.
- Pius, S. M. and P. L. Leberg. 2002. Experimental assessment of the influence of Gull-billed terns on nest site choice of Black Skimmers. *Condor* 104:174-177.
- Lance, R. F., B. C. Hardcastle, and P. L. Leberg. 2001. Roost site selection by Rafinesque's big-eared bat (*Corynorhinus rafinesquii*). *Journal of Mammalogy* 82:166-172.
- Lewis, S. S., P. L. Klerks, and P. L. Leberg. 2001. Relationship between allozyme genotype and sensitivity to stressors in the western mosquitofish *Gambusia affinis* detected for elevated temperature but not mercury. *Aquatic Toxicology* 52:205-216.
- Spencer, C. S., J. Neigel, and P. L. Leberg. 2000. Evaluation of the usefulness of microsatellite DNA for detecting demographic bottlenecks. *Molecular Ecology* 9:1517-1528.
- Waits, J. A. and P. L. Leberg. 2000. Biases associated with population estimation using molecular tagging. *Animal Conservation* 3:191-199.
- Lance, R. F., M. L. Kennedy, and P. L. Leberg. 2000. Classification bias in discriminant function analyses used to evaluate putatively different taxa. *Journal of Mammalogy* 81:245-249.
- Leberg, P. L. and J. E. Neigel. 1999. Status of population genetics data in the literature: Assessment of the need for a community database. *Evolution* 53:1961-1965.
- Waits, J. A. and P. L. Leberg. 1999. Advances in the use of molecular markers for studies of population size and movement. *Transactions of the North American Wildlife and Natural Resources Conference* 64:191-201.
- Leberg, P. L. 1999. Using genetic markers to assess the success of translocation programs. *Transactions of the North American Wildlife and Natural Resources Conference* 64:174-190.
- Mallach, T. and P. L. Leberg. 1999. Use of dredged material substrates by nesting terns and Black Skimmers. *Journal of Wildlife Management* 63:137-146.
- Leberg, P. L. and D. L. Ellsworth. 1999. Further evaluation of the genetic consequences of translocations on southeastern white-tailed deer populations. *Journal of Wildlife Management* 63:327-334.

- Spencer, C. C., J. E. Neigel, K. T. Scribner, M. C. Wooten, C. A. Chlan, and P. L. Leberg. 1999. Polymorphic microsatellite markers in the Western Mosquitofish, *Gambusia affinis*. *Molecular Ecology* 8:157-158.
- Leberg, P. L. 1998. Influence of complex sex determination on demographic stochasticity and population viability. *Conservation Biology* 12:456-459.
- Pius, S. M. and P. L. Leberg. 1998. The protector species hypothesis: Do black skimmers find refuge from predators in gull-billed tern colonies? *Ethology* 104:273-284.
- Klerks, P.L., P. L. Leberg, R. F. Lance, D. J. McMillin, and J. C. Means. 1997. Lack of development of pollutant-resistance and genetic differentiation in darter gobies (*Gobionellus boleosoma*) inhabiting a produced-water discharge site. *Marine Environmental Research* 44:377-395.
- James, R. A., P. L. Leberg, J. M. Quattro, and R. C. Vrijenhoek. 1997. Genetic diversity in black howler monkeys (*Alouatta pigra*) from Belize. *American Journal of Physical Anthropology* 102:329-336.
- Pius, S. M. and P. L. Leberg. 1997. Aggression and nest spacing in single and mixed species groups of seabirds. *Oecologica* 111:144-150.
- Leberg, P. L., P. Deshotels, S. Pius, and M. Carloss. 1997. Nest sites of seabirds on spoil islands in coastal Louisiana. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 49:356-366.
- Leberg, P. L., T. J. Spengler, and W. T. Barrow. 1996. Lipid and water depletion in migrating passerines following passage over the Gulf of Mexico. *Oecologica* 106:1-7.
- Richards, C. and P. L. Leberg. 1996. Evaluation of the effects of bottlenecks on changes in allele frequencies. *Conservation Biology* 10:832-839.
- Torres, A. R. and P. L. Leberg. 1996. Initial changes in habitat and abundance of cavity-nesting birds and the Northern Parula following hurricane Andrew. *Condor* 98:483-490.
- Quattro, J. M., P.L. Leberg, M. E. Douglas, and R. C. Vrijenhoek. 1996. Molecular evidence for a unique evolutionary lineage of an endangered Sonoran Desert fish (genus *Poeciliopsis*). *Conservation Biology* 10:128-135.
- Leberg, P. L. and R. C. Vrijenhoek. 1996. Variation among desert topminnows in their susceptibility to attack by exotic parasites. Pages 216-222 in *Ecosystem Management: Selected Readings* (F. Samson and F. Knopf, eds.), Springer Verlag. Note: Reprint of 1994 article selected for book.
- Leberg, P. L. 1996. Applications of allozyme electrophoresis in conservation biology. Pages 87-103 in *Molecular Approaches in Conservation Biology* (T. Smith and R. Wayne, eds.), Oxford University Press.
- Lance, R. F., B. Bollich, C. L. Callahan, and P. L. Leberg. 1996. Surveying forest-bat communities with Anabat detectors. Pages 175-184 in *Bats and Forests Symposium* (R. Barclay and R. Brigham, eds.), B.C. Minister of Forestry, Victoria, B.C.
- Spengler, T. J., P. L. Leberg, and W.T. Barrow. 1995. Comparison of condition indices in migratory passerines at a stopover site in coastal Louisiana. *Condor* 97:438-444.

- Leberg, P. L., P. E. Stangel, H. O. Hillestad, L. R. Marchinton, and M. H. Smith. 1994. Genetic structure of reintroduced wild turkey and white-tailed deer populations. *Journal of Wildlife Management* 58:698-711.
- Leberg, P. L. 1994. Genetic diversity, morphology, and demography of the Wild Turkey. Pages 126-131 *in* *Forests and Wildlife: Towards the 21st Century* (I. Thompson, ed.), International Union of Game Biologists.
- Leberg, P. L. and R. C. Vrijenhoek. 1994. Variation among desert topminnows in their susceptibility to attack by exotic parasites. *Conservation Biology* 8:419-424.
- Leberg, P. L. and M. H. Smith. 1993. Influence of density on growth of white-tailed deer. *Journal of Mammalogy* 74:723-731.
- Leberg, P. L. 1993. Strategies for population reintroduction: Effects of genetic variability on population growth and size. *Conservation Biology* 7:194-199.
- Stangel, P. W., P. L. Leberg, and J. I. Smith. 1992. Systematics and population genetics. Pages 18-28 *in* *The Wild Turkey: Ecology and Management* (J. Dickson, ed.), Stackpole Books.
- Leberg, P. L. 1992. Effects of population bottlenecks on genetic diversity as measured by allozyme electrophoresis. *Evolution* 46:477-494.
- Leberg, P. L. 1991. Effects of genetic variation on the growth of fish populations: Conservation implications. *Journal of Fish Biology* 37(A):193-195.
- Leberg, P. L., M. H. Smith, and I. L. Brisbin, Jr. 1991. Influence of sex, environment, and genetic variation on post-natal growth of deer. Pages 343-350 *in* *Second International Symposium on the Biology of Deer* (R. Brown, ed.), Springer Verlag
- Lydeard, C., P. L. Leberg, and M. H. Smith. 1991. Effects of predation on structure of mosquitofish populations. *Georgia Journal of Science* 148:144-151.
- Mulvey, M., J. M. Aho, C., Lydeard, P. L. Leberg, and M. H. Smith. 1991. Comparative population genetic structure of a parasite (*Fascioloides magna*) and its definitive host. *Evolution* 45:1628-1640.
- Vrijenhoek, R. C. and P. L. Leberg. 1991. Don't throw the baby out with the bath water. *Conservation Biology* 5:249-251.
- Leberg, P. L. 1991. Influence of fragmentation and bottlenecks on genetic divergence of wild turkey populations. *Conservation Biology* 5:522-530.
- Leberg, P. L., M. H. Smith, I. L. Brisbin, and K. T. Scribner. 1991. Optimization strategies in a deer harvest program. Pages 555-558 *in* *Global Trends in Wildlife Management* (B. Bobek, K. Perzanowski, and W. L. Regelin, eds.). Swiat Press, Krakow, Poland.
- Leberg, P. L. 1990. Genetic considerations in the design of introduction programs. *Transactions of the North American Wildlife and Natural Resources Conference* 55:609-619.
- Leberg, P. L., M. H. Smith, and O. E. Rhodes. 1990. The association between heterozygosity and growth of deer fetuses is not explained by effects of the loci examined. *Evolution* 44:254-259.

- Leberg, P. L., I. L. Brisbin, M. H. Smith, and G. C. White. 1989. Factors affecting the analysis of growth patterns of large mammals. *Journal of Mammalogy* 70:275-283.
- Leberg, P. L. and M. L. Kennedy. 1988. Demography and habitat relationships of raccoons in western Tennessee. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 42:272-282.
- Weckerly, F. W., P. L. Leberg, and R. A. Van Den Bussche. 1987. Variation of weight and chest girth in white-tailed deer. *Journal of Wildlife Management* 51:334-337.
- Weckerly, F. W., P. L. Leberg, and M. L. Kennedy. 1987. Density of the virginia opossum (Marsupialia: Didelphidae) in western Tennessee. *Tennessee Academy of Sciences* 62:108-110.
- Leberg, P. L. and M. L. Kennedy. 1987. Use of scent-station methodology to assess raccoon abundance. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 41:394-403.
- Lydeard, C., P. L. Leberg, and G. D. Baumgardner. 1986. Additional notes on the taxonomic status of the coyote in Tennessee. *Tennessee Academy of Sciences* 61:41-45.
- Kennedy, M. L., P. L. Leberg, and G. D. Baumgardner. 1986. Morphologic variation in the coyote, *Canis latrans*, in the southern United States. *Southwestern Naturalist* 31:139-148.
- Leberg, P. L., M. L. Kennedy, and R. A. Van Den Bussche. 1983. Opossum demography and scent-station visitation in western Tennessee. *Proceedings of the Annual Conference of the Southeastern Association of Fish and Wildlife Agencies* 37:34-40.

INVITED SEMINARS AND SYMPOSIUM PRESENTATIONS

- 2016 Invited Speaker, Louisiana State University, Baton Rouge.
- 2013 Invited Speaker, Savannah River Ecology Lab, Aiken SC
- 2012 Invited Speaker, USGS Mangrove Expansion Workshop, Lafayette.
- 2011 Invited Seminar, Tulane University, New Orleans
- 2010 Invited Speaker, Black-capped Vireo Symposium, Austin
Invited Seminar, Louisiana State University, Baton Rouge
- 2008 Invited Speaker "Symposium on Molecular Insights into Natural Resource Conservation and Management." Purdue University.
- 2007 Invited Speaker, Evolutionary Change in Human-altered Environments: An international summit (University of California, Los Angeles).
Invited Seminar, Louisiana State University, Baton Rouge.
- 2005 Invited Seminar, Texas State University, San Marcos
- 2004 Invited Seminar, Louisiana State University, Baton Rouge.
- 2003 Invited Seminar, Tulane University, New Orleans.
- 2002 Invited Seminar, Mississippi State University, Starkville.
Plenary Speaker, Joint state meetings of the Indiana Wildlife Society and American Fisheries Society, Bloomington.
- 2001 Invited Seminar, Department of Toxicology, Texas Tech University,

- Lubbock.
 Invited Seminar, Ecology Division, Experimental Waterways Research Station, U.S. Army Corps of Engineers, Vicksburg, Mississippi.
- 1999 Invited Seminar, Department of Biology, University of New Orleans.
 Invited Seminar, Department of Biology, North Dakota State, Fargo.
 Invited Presentation, North American Wildlife and Natural Resources Conference, San Francisco.
1998. Invited Seminar, Savannah River Ecology Laboratory, Aiken, South Carolina.
 Invited Seminar, Department of Biology, Old Dominion University, Norfolk, Virginia.
- 1997 Plenary Address, Annual meeting of the Wildlife Society, Snowmass, Colorado.
 Invited Seminar, Department of Evolution, Ecology, and Organismal Biology, Tulane University, New Orleans.
- 1996 Invited Seminar, School of Forestry, Louisiana State University, Baton Rouge.
 Invited Seminar, Department of Biology, University of Memphis, Memphis, Tennessee.
 Invited Seminar, School of Forestry, University of Montana, Missoula.
 Invited Lecture, Combined Biology/Wildlife Genetics Seminar Series, University of Montana, Missoula.
- 1995 Invited Speaker and Panel Participant at Symposium on Fish Translocations, Desert Fishes Council, Reno, Nevada.
 Invited Presentation, Symposium on Molecular Genetic Approaches in Conservation, sponsored by AAAS, San Francisco, California.
- 1994 Invited Seminar, Department of Biology, University of Alabama, Tuscaloosa.
- 1993 Invited Presentation, International Union of Game Biologists XXI Congress on Forests and Wildlife in the 21st Century, Dalhousie University, Halifax, Nova Scotia.
 Invited Seminar, Biology Department, Louisiana State University, Baton Rouge.
- 1991 Invited Seminar, Ecology Graduate Program, Rutgers University, New Brunswick, New Jersey.
 Invited Seminar, Department of Biology, University of Southwestern Louisiana, Lafayette, Louisiana.
- 1990 Invited Seminar, National Cancer Institute, Frederick, Maryland.

1988 A. Brazer Howell Award Presentation, Plenary Session, American Society of Mammalogists, Clemson University, Clemson, South Carolina.

TEACHING EXPERIENCE

Since 1992 I have taught the following courses:

CONSERVATION BIOLOGY (Senior-Graduate Level)

STATISTICAL ECOLOGY (Graduate Level)

ORNITHOLOGY (Junior Level)

MAMMALOLOGY (Senior-Graduate Level)

WILDLIFE ECOLOGY AND MANAGEMENT (Junior Level)

Graduate Seminars in MOLECULAR ECOLOGY, LANDSCAPE ECOLOGY, and CONSERVATION GENETICS

MAJOR PROFESSIONAL SERVICE

Gulf Coast Joint Venture Waterbird Working Group Member (2014-Present)

Editorial Review Board, *Molecular Ecology* (2112 - Present)

Instructor, Class in Conservation and Restoration Genetics, Organization of Tropical Studies, Costa Rica (2011)

Advisory Editorial Board, *Conservation Genetics* (2010-Present)

Editorial Board, *Southeastern Naturalist* (2011-Present)

Associate Editor, *Conservation Genetics* (2004-2010)

Panelist (5 panels), Population Biology, National Science Foundation

Member, Scientific Advisory Committee, Louisiana Environmental Research Center (1996-2004)

MAJOR UNIVERSITY SERVICE, UNIVERSITY OF LOUISIANA LAFAYETTE

Head, Department of Biology (2012-Present)

Member, Department of Biology Executive Committee (2006-2012)

Coordinator of Graduate Program in Biology (2002-2012)

Chair, Graduate Council's *Ad hoc* Thesis and Dissertation Quality Management Committee (2 years)

Chair, Graduate Council's Appeal Committee (2 years)

Assisted in design and revision of major in Resource Biology and Biodiversity

Coordinator of Resource Biology and Biodiversity program (1994-Present)

Member of Graduate Council (3 years)

Member of the University's Animal Use and Care Committee (4 years)

Member on the committees of approximately 80 former or current graduate students (not including my own students)

Chair of Environmental Research subcommittee for the University's accreditation review (4 years)

Chair of Departmental Seminar Committee (2 years)

Head of Users' Committee for the University's Center for Ecology and Environmental Technology (CEET, 6 years)

Director or co-director of research and internships of >50 undergraduate students

Undergraduate Advisor to 7 -15 students per year

Assisted with the establishment of department's automated sequencing facility

Member or chair of twelve departmental search committees

GRANTS AND RESEARCH SUPPORT

FUNDING IN SUPPORT OF THE DEPARTMENTAL DOCTORAL PROGRAM

LA BOARD OF REGENTS GRADUATE FELLOWS PROGRAM. CO-PI.
\$119,000. 2014-2019.

LA BOARD OF REGENTS GRADUATE FELLOWS PROGRAM. CO-PI.
\$224,000. 2013-2018.

LA BOARD OF REGENTS GRADUATE FELLOWS PROGRAM. CO-PI.
\$224,000. 2012-2017.

LA BOARD OF REGENTS GRADUATE FELLOWS PROGRAM. CO-PI.
\$324,000. 2011-2016.

LA BOARD OF REGENTS GRADUATE FELLOWS PROGRAM. CO-PI.
\$208,000. 2010-2015.

LA BOARD OF REGENTS GRADUATE FELLOWS PROGRAM. CO-PI.
\$200,000. 2009-2014.

FUNDING IN SUPPORT OF RESEARCH

THE WATER INSTITUTE OF THE GULF. Coastal Master Plan Model Development and Application Coastal Master Plan Model Development and Application. 2015 –2017 PI (\$21,231).

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES. Assessment of Back Barrier Marsh Creation Projects Ability to Provide Avian Habitat PI 2015-2017 (\$65,700)

US DEPARTMENT OF DEFENSE. Sources and Sinks: Elucidating Mechanisms, Documenting Patterns, and Forecasting. coPI 2014-2017 (\$142,000 to Leberg lab).

COASTAL SCIENCE ASSISTANTSHIP PROGRAM. Evaluation of Maximum Entropy Models for Assessing the Restoration Scenarios Influence on Coastal Wildlife Populations. PI. 2014-2017 (\$75,000)

- THE WATER INSTITUTE OF THE GULF. Modeling Tools to Predict the Effects of Coastal Protection and Restoration Projects. PI. 2014-2015 (\$45,711)
- US GEOLOGICAL SURVEY. Assessment of Potential Responses of Piping Plover (*Charadrius melodus*), Co-occurring Migratory Shorebirds, and their Benthic Macro Invertebrate Prey, to barrier island restoration. PI 2012-2015 (\$91,000)
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES. Influence of barrier island loss, local translocations, and the Deepwater Horizon oil spill on distribution and survival of brown pelicans in coastal Louisiana (PI. 2012-2014 (\$76,150).
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES AND LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES, Breeding ecology of the brown pelican. PI 2011-2013 (\$227,000)
- NATIONAL SCIENCE FOUNDATION. Relative impacts of the Macondo Oil Spill on Brown Pelican population biology? CoPI 2011-2013 (\$199,000 total award, \$43,000 to Leberg lab)
- COYPU FOUNDATION. Factors affecting nest success of painted buntings. PI 2010-2011 (\$29,000).
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES. Nesting ecology of painted bunting in southern Louisiana 2010-2011. PI (\$19,000)
- LOUISIANA OFFICE OF COASTAL PROTECTION AND RESTORATION. M Modeling the effects of coastal restoration and protection. PI 2010-2011 (\$34,341).
- AMERICAN GENETICS ASSOCIATION. Special Events Award for a Short Course and Workshop in Conservation Genetics. CO-PI. 2010-2011 (\$13,000).
- US DEPARTMENT OF DEFENSE. Topical Features and Dynamics of Gene Flow Networks. PI. 2009-2011 (\$158,000)
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES/US FISH AND WILDLIFE SERVICE, Status and habitat use of the eastern spotted skunk in southern Louisiana. PI 2008-2011 (\$98,000)
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES/US FISH AND WILDLIFE SERVICE, Determination of the status of the Northern myotis in Louisiana. PI 2008-2010 (\$30,000)
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES/US FISH AND WILDLIFE SERVICE, Assessment of effects of hurricanes and sea level rise on ecology and restoration of the endangered Brown Pelican. PI 2007-2010 (\$160,000)

- U.S. DEPARTMENT OF DEFENSE, Genetic approaches for assisting in management of species of relevance to land management. PI 2007-2010 (\$128,200)
- U.S. DEPARTMENT OF DEFENSE, The effects of habitat fragmentation on genetic viability of endangered bird populations on U.S. Army installations. PI 2003-2009 (\$185,000)
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES, Wading bird and seabird nesting inventory: Evaluation of temporal trends, spatial associations, and sampling. PI. 2003-2006 (\$287,800).
- US GEOLOGICAL SURVEY, Design and evaluation of sampling regimes for estimation of nutria abundance using noninvasive DNA analysis 2004-2005 (\$6,787)
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES, Influence of vegetation management practices on avian, amphibian, and reptilian communities in bottomland hardwood forests. PI. 2002-2005 (\$160,396).
- ENVIRONMENTAL PROTECTION AGENCY/ BOARD OF REGENTS SUPPORT FUND, Saltwater intrusion on the gulf coast: An assessment of the interactions of salinity stress, genetic diversity and population characteristics of fish inhabiting coastal marshes. PI. 2002-2005 (\$266,820).
- ENVIRONMENTAL PROTECTION AGENCY/ BOARD OF REGENTS SUPPORT FUND, How likely is it that fish populations will successfully adapt to global warming? co-PI. 2002-2004 (\$243,196).
- LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES, Ecology and habitat use of bats. PI. 2002-2004. (\$30,000).
- U.S. FOREST SERVICE. Ecology of forest-dwelling bats. PI. 1996-2003 (\$18,000, includes 2 renewals).
- NATIONAL SCIENCE FOUNDATION, Exploratory evaluation of using introductions of *Mus* to experimentally assess factors affecting population viability. PI. 1999-2000 (\$33,500).
- NATIONAL SCIENCE FOUNDATION, Development of a population genetics prototype database using animal mtDNA investigations. co-PI. 1996-1998 (\$149,000).
- LOUISIANA BOARD OF REGENTS SUPPORT FUND. Acquisition of an ABI 377 Automated DNA Sequencer to enhance the research and training programs in evolutionary biology. co-PI. 2000-2001(\$123,277).
- LOUISIANA EDUCATION SUPPORT FUND-ENHANCEMENT. An automated DNA sequencing facility for enhancing the research and training programs in evolutionary biology. co-PI. 1997-1998 (\$49,000).
- DEPARTMENT OF ENERGY, Development of mammalian and non-mammalian toxicological indices to investigate risks associated with energy-related wastes. co-PI with 7 others. 1993-1999, including 4 renewals (>\$2,000,000; approximately \$194,000 associated with my laboratory).

- DEPARTMENT OF AGRICULTURE. Preliminary investigation into the feasibility of using genetic tagging to study movement patterns in double-crested cormorants. PI. 1998-2001 (\$15,000, including one renewal).
- U.S. GEOLOGICAL SURVEY, Effects of endocrine disrupting chemicals on avian behavior. PI. 1998 (\$5,000).
- LA. DEPT. OF WILDLIFE AND FISHERIES, Seabird and wading bird nesting ecology. PI. 1993-1997. (\$43,000).
- LOUISIANA EDUCATION SUPPORT FUND GRANT, Enhancement of research and teaching in environmental science at the new USL Environmental Research Facility. PI. 1995-1996 (\$19,000).
- LOUISIANA EDUCATION SUPPORT FUND-ENHANCEMENT, Enhancement of research and teaching in molecular and biochemical approaches in environmental biology. co-PI. 1994-1995 (\$75,000).
- NATIONAL SCIENCE FOUNDATION, Effects of captive breeding strategies on population viability. PI. 1992-1995 (\$120,000).
- U.S. FISH & WILDLIFE SERVICE, Effects of Hurricane Andrew on avian populations. PI. 1993-1995 (\$32,000).
- LOUISIANA EDUCATION SUPPORT FUND, Use of nuclear DNA markers to estimate genetic diversity. PI. 1993-1995 (\$32,000).
- AMERICAN MUSEUM OF NATURAL HISTORY, DONN E. ROSEN and THEODORE ROOSEVELT MEMORIAL GRANTS, Genetic structure of the Gila topminnow. PI. 1991 (\$1000).

GRADUATE STUDENTS

Completed

- Schulz Peacock, Jessica S. (M.S. University of Vermont). MS. 2015. Factors Affecting Prey Availability and Habitat Usage of Wintering Piping Plovers. (*Charadrius melodus*) in Coastal Louisiana. Lafayette, LA (Biologist)
- Binod Regmi (Tribuvan Univ, Nepal). MS 2012. Adaptive responses of fish in response to sealevel rice. University of Arkansas (Doctoral Student)
- Vasseur, Phillip (B.S. Louisiana State) MS 2012 Effects of Habitat Edges and Nest Site Characteristics on Painted Bunting (*Passerina ciris*) Nest Survival. Louisiana Dept of Wildlife and Fisheries (Biologist)
- Scott Walter (M.S. Oregon State) Ph.D. 2012. Habitat Degradation, Hurricane, and Oil Spill Effects on Brown Pelican Ecology and Conservation. Texas State University (Instructor).
- Hutchison, Nicole (B.S. Georgia Southern) MS 2012.: Population structure of the cave cricket *Ceuthophilus secretus*. Most recent known position: NOAA Genetics Lab, Lafayette (Technician)
- Tobin, Eric (B.S. Virginia Tech) M.S. 2011 Comparison of marsh vegetation types using occupancy studies of small mammal populations in Louisiana (co-advisor). Univ of Louisiana at Lafayette (Doctoral Student)

- Brice Adams (B.S. Univ. of Montana). M.S. 2011. Phylogeographic patterns in the golden-cheeked warbler *Dendroica chrysoparia* across its breeding range using mtDNA. Washington (FWS-Fisheries Geneticist)
- Giri Athrey (M.S. University of Louisiana) 2010. Ph.D. Dissertation: Birds in time & space: patterns and processes of spatiotemporal genetics in two songbirds. Assistant professor, Texas A&M
- Bridget Nixon (B.S., St. Ambrose College, Iowa). 2010. Roost ecology of the Northern Long-eared Myotis. Indiana (Field biologist)
- Kyle Patton (B.S., University of Louisiana Lafayette) M.S. 2009. Roost use and ecology of the Southeastern myotis (*Myotis austroriparius*) University of Louisiana (Instructor and Freshman Laboratory Coordinator)
- Alan Hitch (B.S. Univ. of California Davis). M.S. 2009 Thesis: Interactions of salinity, marsh fragmentation and submerged aquatic vegetation on resident coastal marsh nekton assemblages. Univ of California Davis (Assistant Curator).
- Kevin Purcell (M.S. Bloomsburg Univ.). Ph.D. 2009 Dissertation: Adaptation and evolution of fish populations: Responses to changing salinities. World WildFig Data, Harrisburg PA (chief data scientist)
- Shannon Martin (M.S. Univ. of Southeastern Louisiana) Ph.D. 2009. Dissertation: Reproductive Strategies of Coastal Marsh Fishes: Assessing Alternative Life History Tactics in Response to Environmental Change. Florida Fish and Wildlife Commission (Research Biologist)
- Kelly Barr (B.S., Univ. of North Carolina) M.S. 2008. Thesis: Conservation genetics of the endangered black-capped vireo (*Vireo atricapillus*). Most recent known position: Univ. of Southern California (doctoral student).
- Eric Liebgold (B.S. Rutgers). M.S. 2006. Mating systems, juvenile dispersal, and potential kin associations in the red-backed salamander, *Plethodon cinereus*. Most recent known position: University of Virginia (doctoral student).
- Tami Ransom (B.S. U.C. Davis). M.S. 2006: Community interactions among salamanders in the southern Appalachian mountains. Most recent known position: University of Virginia (doctoral student).
- Denise Lindsay (B.S., Southern Oregon Univ.) M.S. 2006. Conservation genetics of the endangered Golden-cheeked warbler. Most recent known position: Waterways Experiment Station (Biologist)
- Erin Smithies-Baker (B.S. Univ. of Maryland). M.S. 2005. Thesis: Influence of habitat features on bat abundance and community structure. Most recent known position: Teatown Environmental Center, New York (Environmental Educator).
- Brian Lorenz (B.S. St. Johns Univ.). M.S. 2005. Thesis: Effects of selective timber harvest on amphibians and reptiles in bottomland hardwood forests of Louisiana. Most recent known position: St. Cloud State University (Laboratory Services Specialist).
- Jeannie Heltzel (B.S. Oregon State Univ.). M.S. 2004. Thesis: Abundance and reproductive success of songbirds in selectively harvested bottomland

- hardwood forests in Louisiana. Most recent known position: D.J. Warren & Associates, Oregon (Biometrician).
- Elizabeth Loos (M.S. Louisiana State Univ.). Ph.D. 2004. Dissertation: Reproductive Ecology of Dabbling ducks: Influences of laying stage incubation, egg viability, and hatching synchrony on clutch size. Most recent known position: West Plains Consulting (Environmental Consultant).
- Clay Green (M.S. Sul Ross Univ.). Ph.D. 2003. Dissertation: The ecological consequences of plumage dimorphism in herons. Most recent known position: Texas State Univ., (Associate Professor).
- Francesca Ferrara (B.S. Lehigh Univ.). M.S. 2003. Ecology of bridge roosting bats in Louisiana forests. Most recent known position: Tetra Tech EMI Environmental Consulting, California (Biologist).
- Billy Leonard (B.S. Univ. Louisiana Lafayette). M.S. 2002. Thesis: Influence of recreational land use on bird community composition and nest predation. Most recent known position: U.S. Fish and Wildlife Service, Louisiana (Biologist).
- Julie Waits (M.S. Univ. of Memphis). Ph.D. 2001. Dissertation: Evaluation of molecular approaches used to estimate population size and factors influencing population size and success of reintroduced wildlife. Most recent known position: Southwest College, Tennessee (Faculty and Dept Head).
- Brigette Firman (B.S. Univ. of Southern Mississippi). M.S. 2000. Thesis: Effects of loss of genetic variation and purging of recessive alleles on viability of fish populations. Most recent known position: U.S. Fish and Wildlife Service, Louisiana (Biologist).
- Richard Lance (B.S. Brigham Young Univ.). Ph.D. 1999. Dissertation: Ecology and genetic structure of bats inhabiting southeastern forests. Most recent known position: U.S. Army Corps of Engineers (Research Biologist).
- Christine Spencer (B.A. Earlham College). M.S. 1998. Thesis: Experimental assessment of the utility of microsatellite loci for assessing the size of past demographic bottlenecks. Most recent known position: Georgia Tech (Academic Program leader)
- Jeanine Ferrence (B.S. Indiana Univ. of Pennsylvania). M.S. 1998. Thesis: Effects of endocrine disruptors on avian reproductive behavior. Most recent known position: U.S. National Park Service, Pennsylvania (Biologist).
- Dave Rogowski (B.S. Eastern Michigan). M.S. 1997. Thesis: Effects of reduced genetic diversity on population size and heavy metal tolerance. Most recent known position: Texas Tech University (Assistant Professor).
- Troy Mallach (B.S. Univ. of Southwestern Louisiana). M.S. 1996. Thesis: Influence of substrate on reused dredge islands by nesting seabirds. Most recent known position: U.S. Natural Resources Conservation Service, Louisiana (Biologist).

Sandra Pius (M.S. Univ. South Carolina). Ph.D. Fall 1996. Dissertation: The maintenance and consequences of mixed species colonies: The influence of gull-billed terns on black skimmers. Most recent known position: Private Industry, Texas (Science Writer).

Robin Torres (B.S. Texas A&M). M.S. 1995. Thesis: Effect of Hurricane Andrew on cavity nesting birds in the Atchafalaya Basin. Most recent known position: Homemaker.

Christine Richards (B.S. Univ. of Southwestern Louisiana). M.S. Summer 1994. Thesis: Evaluation of methods using temporal changes in allele frequencies for estimating effective population size. Most recent known position: Louisiana Department of Environmental Quality (Biologist).

Terry Spengler (B.S. Penn State Univ.). M.S. 1993. Thesis: Lipid dynamics of migratory passerines. Most recent known position: US Geological Survey, Anchorage (Biologist).

In progress

Byerly, Paige (MS University of Idaho) Dissertation topic: To be determined.

Jones, Landon, (co advisor, MS. Brigham Young Univ.) Dissertation topic: Behavioral ecology of seed dispersers in fragmented tropical environments.

Darnell, Angela (M.S. Humbolt State, CA) Dissertation topic: Responses of mammalian carnivores to non-lethal human disturbance

Wakeland, Kristin (B.S. Friends University, KS) Dissertation topic: Avian-assisted dispersal of aquatic organisms.

Zapetal, Mirka (M.S. Antioch Univ., MA) Dissertation topic: Mammalian colonization and ecology on coastal islands

Hauser, Samantha (B.S. Rutgers, NJ) Dissertation topic: Genetic detection of source/sink systems

Hucks, Katrina (B.S. Univ of Central Oklahoma) MS topic: Improving predictions of coast change effects on wildlife with maximum entropy modeling

POST DOCTORAL ASSOCIATES

Completed

Clay Green (Ph.D. Univ. of Louisiana), Assessment of census approaches for aerial survey methodologies. Most recent known position: Texas State University (Assistant Professor).