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ACADEMIC TRAINING

Ph.D. (2011) Conservation Biology, University of Minnesota, St. Paul, MN;
M.S. (2007) Natural Resources & Environmental Sciences; University of Illinois, Urbana, IL
B.S. (2004) Biology & Wildlife Ecology; Univ. of Wisconsin - Stevens Point, Stevens Point, WI

POSITIONS HELD

Assistant Professor – Oklahoma State University, Dept. of Natural Resource Ecology & Management (Aug 2013-pres)
Postdoctoral Research Fellow – Smithsonian Conservation Biology Institute, National Zoological Park (Aug 2011-Jul 2013)
Graduate Research Fellow and **National Science Foundation IGERT Fellow**, Conservation Biology Graduate Program, University of Minnesota (Aug 2007-Aug 2011)
Graduate Research Fellow – Department of Natural Resources and Environmental Sciences, University of Illinois (Feb 2005- Aug 2007)

PUBLICATIONS

Peer-reviewed Articles

(*Indicates advised postdoctoral/graduate student; **Indicates advised undergraduate student)

34. Craven, D., Thakur, M.P., Cameron, E.K., Frelich, L.E., Beausejour, R., Burtis, J., Choi, A., Fahey, T.J., Fisichelli, N., Gibson, K., Handa, I.T., Hopfenspberger, K., **Loss, S.R.**, Nuzzo, V., Maerz, J., Scharenboch, B., Vellend, M., Umek, L.G., Eisenhauer, N. Pervasive impacts on biodiversity of an ecosystem engineer: a meta-analysis of exotic earthworms in North American forests. *Global Change Biology In Press*.
33. *Paudel, S., MacDonald, B., Longcore, T., **Loss, S.R.** Predicting spatial extent of invasive earthworms on an oceanic island. *Diversity and Distributions In Press*.
32. **Elizondo, E., **Loss, S.R.** 2016. Using trail cameras to study free-ranging domestic cat abundance in urban areas. *Wildlife Biology In Press* (DOI: 10.2981/wlb.00237).
31. Johnson, D.H., **Loss, S.R.**, Smallwood, K.S., Erickson, W.P. 2016. Avian fatalities at wind energy facilities in North America: a comparison of recent approaches. *Human-Wildlife Interactions* 10:7-18.
30. **Loss, S.R.** 2016. Avian interactions with energy infrastructure in the context of other anthropogenic threats. *The Condor: Ornithological Applications* 118:424-432.
29. Beston, J.A., Diffendorfer, J., **Loss, S.R.**, Johnson, D.H. 2016. Prioritizing avian species for their risk of population level consequences from wind energy development. *PLoS ONE* 11:e0150813.

28. *Paudel, S., Longcore, T., MacDonald, B., McCormick, M.K., Szlavecz, K., Wilson, G.W.T., **Loss, S.R.** 2016. Belowground interactions with aboveground consequences: Invasive earthworms and arbuscular mycorrhizal fungi. *Ecology* 97:605-614.
27. **Loss, S.R.**, Will, T., Marra, P.P. 2015. Direct mortality of birds from anthropogenic causes. *Annual Review of Ecology, Evolution, and Systematics* 46:99-120.
26. Marra, P.P., Cohen, E.B., **Loss, S.R.**, Rutter, J.E., Tonra, C.M. 2015. A call for full annual cycle research in animal ecology. *Biology Letters* 11(8).
25. Diffendorfer, J.E., Erickson, R., Heist, K., Johnson, D.H., **Loss, S.R.**, Thogmartin, W., Merrill, M., Corum, M. 2015. Draft methodology to assess the impact of wind energy development on birds and bats. U.S. Geological Survey, Scientific Investigations Report 2015-5066, 40 p. <http://dx.doi.org/10.3133/sir20155066>.
24. **Loss, S.R.**, Loss, S.S., Will, T., Marra, P.P. 2015. Linking place-based citizen science with large-scale conservation research: A case study of bird-building collisions and the role of professional scientists. *Biological Conservation* 184:439-445.
23. Beston, J.A., Diffendorfer, J.E. **Loss, S.R.** 2015. Insufficient sampling to identify species affected by wind turbine collisions. *Journal of Wildlife Management* 79:513-517.
22. **Loss, S.R.**, Will, T., Marra, P.P. 2014. Estimates of bird collision and electrocution mortality at power lines in the United States. *PLoS ONE* 9:e101565.
21. **Loss, S.R.**, Blair, R.B. 2014. Earthworm invasions and the decline of clubmosses (*Lycopodium* spp.) that enhance nest survival rates of a ground-nesting songbird. *Forest Ecology and Management* 324:64-71.
20. **Loss, S.R.**, Will, T., Marra, P.P. 2014. Estimates of annual bird mortality from vehicle collisions on roads in the United States. *Journal of Wildlife Management* 78:763-771 (selected as feature article for the issue).
19. **Loss, S.R.**, Will, T., Marra, P.P. 2014. Bird-building collisions in the United States: estimates of annual mortality and species vulnerability. *The Condor: Ornithological Applications* 116:8-23. (Highlighted article of the inaugural issue of this journal; *paper in top 1% of all articles ever tracked by Altmetric and 1st all-time for the Condor*)
18. **Loss, S.R.**, Will, T., Marra, P.P. 2013. Estimates of bird collision mortality at wind farms in the United States. *Biological Conservation* 168:201-209. (*Highlighted article of the month for Biological Conservation; as of 2-28-14, paper in top 1% of all articles ever tracked by Altmetric and 6th all-time in Biological Conservation*)
17. **Loss, S.R.**, Will, T., Marra, P.P. 2013. The impact of free-ranging domestic cats on wildlife of the United States. *Nature Communications* 4:1396 DOI: 10.1038/ncomms2380 (*as of 2-28-14, paper in top 0.01% of articles ever tracked by Altmetric and 2nd all-time for Nature Communications*).
16. **Loss, S.R.**, Hueffmeier, R.M., Hale, C.M., Host, G.E., Sjerven, J., Frelich, L.E. 2013. Earthworm invasions in northern hardwoods forests: a rapid assessment method. *Natural Areas Journal* 33:21-30.
15. **Loss, S.R.**, Marra, P.P., Will, T. 2012. Direct human-caused mortality of birds: improving quantification of magnitude and assessment of population impacts. *Frontiers in Ecology and the Environment* 10:357-364.
14. Davis, A.Y., Balaire, J.A., Farfan, M.A., Milz, D., Sweeney, E.R., **Loss, S.R.**, Minor, E.S. 2012. Green infrastructure, biodiversity, and ecosystem services across an urban socioeconomic gradient. *Ecosphere* 3:105. <http://dx.doi.org/10.1890/ES12-00126.1>.
13. Hamer, S.A., Goldberg, T.L., Kitron, U.D., Brawn, J.D., Anderson, T.K., **Loss, S.R.**, Tsao, J.I., Walker, E.D., Hamer, G.L. 2012. Wild birds in the urban ecology of ticks and tick-borne pathogens. *Emerging Infectious Diseases* 18:1589-1595. (*Paper chosen as media highlight*).
12. **Loss, S.R.** 2012. Nesting density of Hermit Thrushes in a remnant invasive earthworm-free portion of a Wisconsin hardwood forest. *Wilson Journal of Ornithology* 124:375-379.

11. **Loss, S.R.**, Niemi, G.J., Blair, R.B. 2012. Invasions of non-native earthworms related to population declines of ground-nesting songbirds across a regional extent in northern hardwood forests of North America. *Landscape Ecology* 27:683-696.
10. **Loss, S.R.**, Blair, R.B. 2011. Reduced density and nest survival of ground-nesting songbirds relative to earthworm invasions in northern hardwood forests. *Conservation Biology* 5:983-993.
9. **Loss, S.R.**, Terwilliger, L.T., Peterson, A.C. 2011. Assisted colonization: Integrating conservation techniques in the face of climate change. *Biological Conservation* 142:92-100.
8. **Loss, S.R.**, Ruiz, M.O., Brawn, J.D. 2009. Relationships between avian diversity, neighborhood age, income, and environmental characteristics of an urban landscape. *Biological Conservation* 142:2578-2585.
7. **Loss, S.R.**, Brawn, J.D. et al. 2009. Avian host community structure and prevalence of West Nile virus in Chicago, Illinois. *Oecologia* 159:415-24.
6. **Loss, S.R.**, Brawn, J.D. et al. 2009. Nestling passerines are not important hosts for amplification of West Nile virus in Chicago, Illinois. *Vector Borne and Zoonotic Diseases* 9:13-18.
5. Hamer, G.L., Chaves, L.F., Anderson, T.K., Kitron, U.D., Brawn, J.D., Ruiz, M.O., **Loss, S.R.**, et al. 2011. Fine-scale variation in vector host use and force of infection drive localized patterns of West Nile virus transmission. *PLOS One* 6:e23767.
4. Hamer, G.L., Kitron, U.D., Goldberg, T.L., Brawn, J.D., **Loss, S.R.**, et al. 2009. Host selection by *Culex pipiens* mosquitoes and West Nile virus transmission. *Amer. Journal of Tropical Medicine and Hygiene* 80:268-278.
3. Bertolotti, L., Kitron, U.D., Walker, E.D., Ruiz, M.O., Brawn, J.D., **Loss, S.R.**, et al. 2008. Fine-scale genetic variation and evolution of West Nile virus in a suburban “hot spot” in Chicago. *Virology* 374: 381-389.
2. Hamer, G.L., Walker, E.D., Brawn, J.D., **Loss, S.R.**, et al. 2008. Rapid amplification of West Nile virus: The role of hatch-year birds. *Vector Borne and Zoonotic Diseases* 8:57-68.
1. Hamer, G.L., Kitron, U.D., Brawn, J.D., **Loss, S.R.**, et al. 2008. *Culex pipiens* (Diptera: Culicidae): a bridge vector of West Nile virus to humans. *Journal of Medical Entomology* 45: 125-128.

Manuscripts in review

(*Indicates advised postdoctoral/graduate student; **Indicates advised undergraduate student)

- Loss, S.R.**, Noden, B., Hamer, S., Hamer, G. A continent-scale quantitative review of the role of birds in carrying ticks and tick-borne pathogens. *Oecologia In Review*.
- Diffendorfer, J.E., Beston, J.A., Merrill, M.D., Stanton, J.C., Corum, M.D., **Loss, S.R.**, Thogmartin, W., Johnson, D.H., Erickson, R.A., Heist, K.W. A method to assess the population level consequences of wind energy on species. Book Chapter *In Review*.
- Noden, B.H., Loss, S.R., Maichak, C., Williams, F. Risk of encountering ticks and tick-borne pathogens within a rapidly growing metropolitan area in the U.S. Great Plains. *Ticks and Tick-borne Parasites In Review*.
- Tinsley, K., **Loss, S.R.**, Blair, R.B. Survival and cause-specific mortality of female and poult wild turkeys across urban, suburban, and rural habitats in central Minnesota. *The Condor: Ornithological Applications In Review*.
- *Thompson, M., Beston, J., Diffendorfer, J., Etterson, M., Loss, S.R. Factors affecting bat collision mortality at wind facilities in the United States. *Conservation Biology In Review*.
- Loss, S.R.**, O’Connell, T. In Harm’s Way: Human-related Threats to Birds. Invited peer-reviewed book chapter in Rodewald, A., Morrison, M., Martinez del Rio, C., Voelker, G (eds.). *Ornithology*. Johns Hopkins University Press. *In Review*.
- Loss, S.R.**, Paudel, S., Laughlin, C.M., Zou, C. Local-scale correlates of native and non-native earthworm distributions in a grassland encroached by a native juniper. *Biological Invasions In Review*.

Manuscripts in revision and in preparation

(*Indicates advised postdoctoral/graduate student; **Indicates advised undergraduate student)

- Paudel, S., Benavides, J.C., Macdonald, B., Longcore, T., Wilson, G.W.T., Loss, S.R. Determinants of native and non-native plant species composition and abundance in a Mediterranean-type oceanic island ecosystem (To be submitted to *Ecography*).
- Hager, S.B., Cosentino, B.J., Aguilar-Gomez, M.A., Anderson, M.L., Bakermans, M., Boves, T.J., Brandes, D., Butler, M.W., Butler, E.M., Cagle, N.L., Calderon-Parra, R., Capparella, A.P., Chen, A., Cipollini, K., Conkey, Contreras, T.A., Cooper, R.I., Corbin, C.E., Curry, R.L., Dosch, J., Drew, M.G., Dyson, K., Foster, C., Francis, C.D., Fraser, E., Furbush, R., Hagemeyer, N., Hopfensperger, K.N., Klem, D., Lago, E.A., Lahey, A., Lamp, K., Lewis, G., **Loss, S.R.**, Machtans, C., Madosky, J., Maness, T.J., McKay, K.J., Menke, S.B., Muma, K.E., Ocampo-Penuela, N., Ortega-Alvarez, R., Pitt, A.L., Puga-Caballero, A., Quinn, J.E., Ramos, C., *Riding, C.R., Roth, A., Saenger, P.G., Saenger, P.G., Schmitz, R.T., Schnurr, J., Simmons, M., Smith, A., Sokoloski, D.R., Walters, L.A., Weir, J., Winnett-Murray, K., Withey, J.C., Zuria, I. Building and landscape factors influencing bird-window collisions in North America. *In preparation* (To be submitted to *Biological Conservation*).
- Allison, T.D., Beston, J., Diffendorfer, J., Hale, A., **Loss, S.**, Lovich, J., Strickland, D., Williams, K. The ecological impacts of the siting and operation of wind energy in the United States. *In preparation* (To be submitted to *Issues in Ecology*).

Other Publications

(*Indicates advised postdoctoral/graduate student; **Indicates advised undergraduate student)

- Loss, S.R. (as contributing consultant and reviewer with >10 others). 2016. Reducing bird collisions with buildings and building glass best practices. U.S. Fish and Wildlife Service, Division of Migratory Bird Management, Falls Church, Virginia, USA. Online: <http://www.fws.gov/migratorybirds/pdf/management/reducingbirdcollisionswithbuildings.pdf>
- *Paudel, S., MacDonald, B., Longcore, T., **Loss, S.** 2015. Invasive species (earthworm) assessment for control or eradication, San Clemente Island, California. Final Report. Prepared for Naval Base Coronado, Natural Resources Office, Environmental Division (N45), San Diego, California and Commander, United States Pacific Fleet, Pearl Harbor, Hawaii.
- *Paudel, S., MacDonald, B., Longcore, T., **Loss, S.** 2014. Invasive species (earthworm) assessment for control or eradication, San Clemente Island, California. Annual Report 2014. Prepared for Naval Base Coronado, Natural Resources Office, Environmental Division (N45), San Diego, California and Commander, United States Pacific Fleet, Pearl Harbor, Hawaii.
- Cohen, E.B., Culp, L., **Loss, S.R.**, Marra, P.P. 2014. Lead in the United States: Exposure and toxicity to birds. Report prepared by the Smithsonian Conservation Biology Institute for the Center for Biological Diversity.
- Loss, S.R., Loss, S.S., Will, T., Marra, P.P. 2014. Best Practices for data collection in studies of bird-window collisions". Covered in January 2014 article of *Living Bird Magazine* and available online at: <http://abcbirds.org/wp-content/uploads/2015/11/Loss-et-al-Best-Practices-for-Window-Data-2014.pdf> OR <http://tinyurl.com/owx8kc9>.
- Flint, S., Heidel, T., Loss, S., Osborne, J., Prescott, K., Smith, D. 2012. Summary and comparative analysis of nine national approaches to ecological risk assessment of living modified organisms in the context of the Cartagena Protocol on Biosafety, Annex III. CBD Biosafety Technical Series 2 (United Nations Secretariat of the Convention on Biological Diversity, Montreal), 178 p. Available online: bch.cbd.int/database/attachment/?id=13030.

RESEARCH PRESENTATIONS

Professional Conferences

(*Indicates advised postdoctoral/graduate student; **Indicates advised undergraduate student)

60. *Paudel, S., Benavides, J.C., Wilson, G.W.T., MacDonald, Longcore, T.L., **Loss, S.R.** August 2016. Relating native and invasive plant community assemblages to environmental and anthropogenic features of a Mediterranean-type oceanic island ecosystem. Ecological Society of America Conference, Fort Lauderdale, FL.
59. Fogarty, D., Elmore, R.D., **Loss, S.R.** August 2016. Applications of airflow patterns to predator-prey dynamics. Ecological Society of America Conference, Fort Lauderdale, FL.
58. **Loss, S.R.** (*Invited talk*). August 2016. The state of the science on human-caused bird mortality as a basis for threat management. Bird Conservation Alliance Meeting in conjunction with North American Ornithological Congress, Washington, DC.
57. Hager, S., *Riding, C.R., O'Connell, T., **Loss, S.R.** et al. (>30 authors). August 2016. Urbanization shapes the effect of building size on bird-window collisions. North American Ornithological Conference, Washington, DC.
56. *Riding, C.R. **Loss, S.R.** (*Invited talk*). August 2016. Unifying factors driving avian vulnerability to building collisions. Symposium: Identifying unifying factors driving bird population declines: Are life history traits all that matter? North American Ornithological Conference, Washington, DC.
55. **Loss, S.R.** (*Invited talk*). August 2016. Beyond the Treaty: Conservation of birds under new anthropogenic threats. North American Ornithological Conference (Washington DC) - Symposium: Celebrating 100 years of bird conservation: The USFWS and the Migratory Bird Treaty Act.
54. **Loss, S.R.** (*Invited talk*). August 2016. The state of the science of cat predation on birds. North American Ornithological Conference (Washington DC) - Symposium: Linking scientists with practitioners: Current anthropogenic issues and the best management practices and decision support tools for bird conservation in practice.
53. *Fogarty, D., Elmore, D., **Loss, S.R.** August 2016. Impacts of olfactory predator communities on nest-site selection and nest success of a ground-nesting bird. North American Ornithological Conference, Washington, DC.
52. **Roberts, A., *Riding, C., **Loss, S.R.** August 2016. Use of drones to collect nocturnal illumination data for bird-window collision studies. North American Ornithological Conference, Washington, DC.
51. *Fogarty, D., Elmore, D., **Loss, S.R.** April 2016. An olfactory component to habitat selection and predator-prey interactions. Central Ecology and Evolution Conference, Norman, Oklahoma.
50. *Fogarty, D., Elmore, D., **Loss, S.R.** February 2016. Visual and olfactory cover in northeastern Oklahoma Rangelands. 2016 Oklahoma Natural Resources Conference, Oklahoma City, Oklahoma.
49. **Loss, S.R.**, Elmore, D., *Fogarty, D. (*Invited talk*). February 2016. Northern Bobwhite in eastern Oklahoma: Current research and future opportunities. Oklahoma Natural Resources Conference. Symposium: Northern Bobwhite research, Oklahoma City, OK.
48. Noden, B., **Loss, S.R.**, Maichak, C., Williams, F. February 2016. Risk of encountering ticks and tick-borne pathogens within a rapidly growing metropolitan area in the U.S. Great Plains. Entomological Society of America, Southwestern Branch Meeting, Tyler, TX.
47. Hager, S.B., Cosentino, B.J., Aguilar-Gomez, M.A., Anderson, M.L., Bakermans, M., Boves, T.J., Brandes, D., Butler, M.W., Butler, E.M., Cagle, N.L., Calderon-Parra, R., Capparella, A.P., Chen, A., Cipollini, K., Conkey, Contreras, T.A., Cooper, R.I., Corbin, C.E., Curry, R.L., Dosch, J., Drew, M.G., Dyson, K., Foster, C., Francis, C.D., Fraser, E., Furbush, R., Hagemeyer, N., Hopfensperger, K.N., Klem, D., Lago, E.A., Lahey, A., Lamp, K., Lewis, G., **Loss, S.R.**,

- Machtans, C., Madosky, J., Maness, T.J., McKay, K.J., Menke, S.B., Muma, K.E., Ocampo-Penuela, N., Ortega-Alvarez, R., Pitt, A.L., Puga-Caballero, A., Quinn, J.E., Ramos, C., *Riding, C.R., Roth, A., Saenger, P.G., Saenger, P.G., Schmitz, R.T., Schnurr, J., Simmons, M., Smith, A., Sokoloski, D.R., Walters, L.A., Weir, J., Winnett-Murray, K., Withey, J.C., Zuria, I. 2015. Evaluating the drivers of bird-window collisions in North America. Ecological Society of America, Baltimore, Maryland.
46. Beston, J., Diffendorfer, J.E., **Loss, S.R.**, Thogmartin, W. August 2015. Factors affecting avian fatality at onshore wind turbines in the contiguous United States. 100th Meeting of the Ecological Society of America, Baltimore, Maryland.
 45. **Loss, S.R.**, Will, T., Marra, P.P. August 2015. Direct anthropogenic bird mortality: Analysis and synthesis of individual threats as a baseline for understanding cumulative impacts. 100th Meeting of the Ecological Society of America, Baltimore, Maryland.
 44. *Riding, C.S., O'Connell, T.J., **Loss, S.R.** August 2015. Relationships between building façade characteristics and bird-window collision mortality during fall migration in Stillwater, Oklahoma. 100th Meeting of the Ecological Society of America, Baltimore, Maryland.
 43. *Thompson, M.M., **Loss, S.R.** August 2015. Impacts of wind energy development on North American bats: A national assessment. 100th Meeting of the Ecological Society of America, Baltimore, Maryland.
 42. *Paudel, S., MacDonald, B., Longcore, T., Wilson, G.W.T., **Loss, S.R.** August 2015. Non-native earthworms in a historically earthworm-free California Channel Island: Drivers and ecological effects of invasion. 100th Meeting of the Ecological Society of America, Baltimore, Maryland.
 41. *Riding, C., **Loss, S.R.** July 2015. Building façade characteristics affect bird-window collision rates. Joint meeting of the American Ornithologists' Union and Cooper Ornithological Society, Norman, Oklahoma.
 40. **Loss, S.R.** July 2015. Avian interactions with energy infrastructure in the context of other manmade mortality sources. Joint meeting of the American Ornithologists' Union and Cooper Ornithological Society, Norman, Oklahoma.
 39. **Elizondo, E., **Loss, S.R.** March 2015. Abundance of free-ranging domestic cats in Stillwater, Oklahoma: Using trail cameras to assess relationships with human and bird populations. Oklahoma Invasive Species Conference, Norman, OK.
 38. **Loss, S.R.** (*Invited talk*). March 2015. Free-ranging domestic cats as invasive species: Impacts on native wildlife and management controversies. Oklahoma Invasive Species Conference, Norman, OK.
 37. **Elizondo, E., **Loss, S.R.** February 2015. Investigation of free-ranging domestic cat abundance in Stillwater, Oklahoma: Potential associations with human population density and bird abundance. Oklahoma Natural Resources Conference, Tulsa, Oklahoma.
 36. *Thompson, M., **Loss, S.R.** February 2015. Investigation of impacts of wind energy development on North American bats. Oklahoma Natural Resources Conference, Tulsa, Oklahoma.
 35. **Loss, S.R.** (*Invited plenary talk*). October 2014. A comparison of sources of accidental human-caused bird mortality in the US: Bringing scientific data to conservation and policy decision-making. Annual meeting of the Oklahoma Ornithological Society, Stillwater, Oklahoma.
 34. **Elizondo, E., *Maple, A., **Loss, S.R.** 2014. Investigation of free-ranging domestic cat abundance in Stillwater, Oklahoma: Potential associations with urban development intensity and bird abundance. Joint meeting of the American Ornithologists' Union, Cooper Ornithological Society, and Society of Canadian Ornithologists. Estes Park, Colorado.
 33. **Loss, S.R.**, Will, T., Marra, P.P. September 2014. Anthropogenic bird mortality in the United States: Comparison of data-driven estimates for multiple threats and identification of overarching research needs. Joint meeting of the American Ornithologists' Union, Cooper Ornithological Society, and Society of Canadian Ornithologists. Estes Park, Colorado.
 32. **Loss, S.R.**, Will, T., Marra, P.P. August 2014. (*Invited plenary talk*). An overview of anthropogenic bird mortality in the United States: Systematic quantification and identification of

- research needs. Midwest Bird Conservation and Monitoring Conference. – Port Washington, Wisconsin.
31. **Loss, S.R.**, Will, T., Marra, P.P. May 2014 (*Invited talk*). An overview of anthropogenic bird mortality in the United States: Systematic quantification and identification of research needs. XIX Meeting of the Canada/Mexico/U.S. Trilateral Committee for Wildlife and Ecosystem Conservation and Management; Migratory Bird Working Table – Queretaro City, Mexico (presented via webinar).
 30. Hager, S.B., Cosentino, B.J., Aguilar-Gomez, M.A., Calderon-Parra, R., Cipollini, K., Conkey, A.A.T., Garneau, D.E., Hansen, B., Heard, M.J., Hopfensperger, K.N., Klem, D., **Loss, S.R.**, McKay, K.J., Menke, S.B., Ortega-Alvarez, R., Puga-Caballero, A., Quinn, J.E., Saenger, P.G., Schmitz, R.T., Walters, L.A., Zuria, I. 2014. Evaluating the drivers of bird-window collisions in North America. Ecological Society of America, Sacramento, California.
 29. Hager, S.B., Cosentino, B.J., Aguilar-Gomez, Herrera, A.L., Cipollini, K., Hansen, B., Garneau, D., Heard, M.J., Hopfensperger, K.N., Klem Jr., D., Paenger, P., **Loss, S.R.**, Menke, S.B., McKay, K.J., Ortega-Alvarez, R., Calderon-Parra, R., Quinn, J., Schmitz, R.T. January 2014. Evaluating the drivers of bird-window collisions in North America: Preliminary results from Fall 2013. Birds, Glass, and Lighting Meeting (sponsored by U.S. Fish and Wildlife Service), Arlington, Virginia.
 28. **Loss, S.R.**, Will, T., Marra, P.P. August 2013. An overview of anthropogenic bird mortality in the United States: Systematic estimation and identification of research needs. 5th International Partners in Flight Conference and Conservation Workshop, Salt Lake City, Utah.
 27. **Loss, S.R.**, Will, T., Marra, P.P. August 2012. Improving quantification of direct human-caused mortality of birds: A case study of cat predation in the United States. North American Ornithological Conference, Vancouver, Canada.
 26. **Loss, S.R.**, Will, T., Marra, P.P. August 2012. Improving estimation of human-caused bird mortality and assessment of its biological significance to populations. Midwest Bird Conservation and Monitoring Workshop, Milwaukee, WI.
 25. Hamer, S.A., Goldberg, T.L., Kitron, U.D., Brawn, J.D., Anderson, T.K., **Loss, S.R.**, Walker, E.D., Hamer, G.L. 2012. How are birds involved in the urban ecology of tick-borne zoonoses? Ecology and Evolution of Infectious Disease, 100th Annual Workshop and Conference. University of Michigan, Ann Arbor, MI.
 24. Hamer, G. L., Chaves, L.F., Anderson, T.K., Kitron, U.D., Brawn, J.D., Ruiz, M.O., **Loss, S.R.**, Walker, E.D., Goldberg, T.L. 2011. Fine-scale variation in vector host feeding preferences and force of infection drive localized patterns of West Nile virus transmission. Ecology and Evolution of Infectious Diseases. 19 Jun. 2011. Santa Barbara, CA.
 23. **Loss, S.R.**, Blair, R.B. December 2010. Does the worm get the early bird? Impacts of invasive earthworms on ground-nesting songbirds in northern hardwood forests. Midwest Fish & Wildlife Conference, Minneapolis, MN.
 22. **Loss, S.R.**, Blair, R.B. November 2010. Invasive earthworm impacts on ground-nesting songbirds in northern hardwood forests. Minnesota-Wisconsin Invasive Species Conference, St. Paul, MN.
 21. **Loss, S.R.**, Blair, R.B. February 2010. Does the worm get the early bird? Impacts of invasive European earthworms on ground-nesting songbirds in northern hardwood forests. Joint meeting of the AOU/Cooper Ornithological Society/Society of Canadian Ornithologists, San Diego, CA.
 20. **Loss, S.R.** February 2010. Does the worm get the early bird? Impacts of non-native earthworms on ground-nesting songbirds. Minnesota Research Review Symposium, Cloquet, MN.
 19. Hamer, G. L., Goldberg, T.L., Anderson, T.K., Kitron, U.D., Brawn, J.D., Ruiz, M.O., **Loss, S.R.**, Walker, E.D. 2010. *Culex pipiens* host selection and avian community reservoir competence within an urban focus of West Nile virus transmission. 4 Feb. 2010. Michigan Mosquito Control Association Meeting. Traverse City, MI.

18. **Loss, S.R.**, Blair, R.B. April 2009. Invasions of non-native earthworms in northern hardwood forests: Impacts on ground-nesting songbirds. Cooper Ornithological Society Conference, Tucson, AZ
17. Hamer, G. L., Goldberg, T.L., Anderson, T.K., Kitron, U.D., Brawn, J.D., Ruiz, M.O., **Loss, S.R.**, Walker, E.D. 2009. Spatial variation in *Culex pipiens* host selection and avian community reservoir competence within an urban focus of West Nile virus transmission. 26 Dec. 2009. Entomological Society of America Conference. Indianapolis, IN.
16. Hamer, G. L., Goldberg, T.L., Anderson, T.K., Kitron, U.D., Brawn, J.D., Ruiz, M.O., **Loss, S.R.**, Walker, E.D. 2009. Spatial variation in *Culex pipiens* host selection and avian community reservoir competence within an urban focus of West Nile virus transmission. 7 Dec. 2009. Midwest Fish and Wildlife Conference. Springfield, IL.
15. Hamer, G. L., Goldberg, T.L., Anderson, T.K., Kitron, U.D., Brawn, J.D., Ruiz, M.O., **Loss, S.R.**, Walker, E.D. 2009. Spatial variation in *Culex pipiens* host selection and avian community reservoir competence within an urban focus of West Nile virus transmission. 20 Nov. 2009. American Society of Tropical Medicine and Hygiene. Washington D.C.
14. **Loss, S.R.**, et al. 2008. Nestling passerines are not important hosts for amplification of West Nile virus in a transmission "hot spot." Research presented at the American Ornithological Union/Cooper Ornithological Society/Society of Canadian Ornithologists joint conference, Portland, Oregon.
13. Hamer, G. L., Kitron, U.D., Brawn, J.D., **Loss, S.R.**, Ruiz, M.O., Goldberg, T.L., Hayes, D., Walker, E.D. 2008. Host selection by *Culex pipiens* and West Nile virus amplification. Illinois Mosquito and Vector Control Association meeting, Peoria, Illinois.
12. Hamer, G. L., Kitron, U.D., Brawn, J.D., **Loss, S.R.**, Ruiz, M.O., Goldberg, T.L., Hayes, D., Walker, E.D. 2008. Host selection by *Culex pipiens* and the relative importance of avian species to West Nile virus transmission. Michigan Mosquito Control Association meeting, Kalamazoo, Michigan.
11. Hamer, G. L., Kitron, U.D., Brawn, J.D., **Loss, S.R.**, Ruiz, M.O., Goldberg, T.L., Hayes, D., Walker, E.D. 2007. *Culex pipiens* driving West Nile virus transmission by opportunistic host selection. Entomological Society of America, San Diego, California.
10. Hamer, G. L., Kitron, U.D., Brawn, J.D., **Loss, S.R.**, Ruiz, M.O., Goldberg, T.L., Hayes, D., Walker, E.D. Dec. 2007. *Culex pipiens* driving West Nile virus transmission by opportunistic host selection. Midwest Fish and Wildlife Conference, Madison, Wisconsin.
9. **Loss, S.R.**, Ruiz, M.O., Kitron, U.D., Brawn, J.D. 2007. Assessing the determinants of avian community structure in a large metropolitan area using socio-economic and environmental factors. Research presented at the Midwest Fish and Wildlife Conference, Madison, Wisconsin.
8. Hamer, G. L., Kitron, U.D., Brawn, J.D., **Loss, S.R.**, Ruiz, M.O., Goldberg, T.L., Hayes, D., Walker, E.D. 2007. Ecology of West Nile virus: Mechanisms of amplification and vector incrimination. Indiana Vector Control Association meeting, 26 Mar. 2007. Middlebury, Indiana
7. Hamer, G.L., Walker, E.D., Brawn, J.D., Loss, S.R., Ruiz, M.O., Goldberg, T.L., Kitron, U.D. 2007. Host selectivity by vectors of West Nile virus. Michigan Mosquito Control meeting, 7 Feb. 2007. Traverse City, Michigan.
6. Hamer, G.L., Walker, E.D., Ruiz, M.O., Brawn, J.D., **Loss, S.R.**, Goldberg, T.L., Shottthoeffer, A.M., Brown, W.M., Smith, R.J., Wheeler, E.R., Kitron, U.D. 2006. Rapid amplification of West Nile virus in mosquito populations: the role of hatch year birds. Society of Vector Ecology meeting. 2 Oct. 2006. Anchorage, Alaska.
5. Hamer, G.L., Walker, E.D., Ruiz, M.O., Brawn, J.D., **Loss, S.R.**, Goldberg, T.L., Shottthoeffer, A.M., Brown, W.M., Smith, R.J., Wheeler, E.R., Kitron, U.D. 2005. West Nile virus transmission ecology: field investigations from the Chicago epicenter. Ohio Mosquito Control Association Meeting. Toledo, OH.

4. Hamer, G.L., Walker, E.D., Brawn, J.D., **Loss, S.R.**, Ruiz, M.O., Goldberg, T.L., Kitron, U.D. 2007. Host selectivity by vectors of West Nile virus. Fisheries and Wildlife Symposium, East Lansing, Michigan.
3. Hamer, G.L., Walker, E.D., Ruiz, M.O., Brawn, J.D., **Loss, S.R.**, Goldberg, T.L., Schotthoefer, A.M., Brown, W.M., Smith, R.J., Wheeler, E.R., Kitron, U.D. 2006. Avian and mosquito West Nile virus infection in greater Chicago Illinois during the 2005 epizootic. Entomological Society of America –North Central Branch Meeting, Bloomington, Illinois.
2. Hamer, G.L., Walker, E.D., Ruiz, M.O., Brawn, J.D., **Loss, S.R.**, Goldberg, T.L., Schotthoefer, A.M., Brown, W.M., Smith, R.J., Wheeler, E.R., Kitron, U.D. 17 Mar. 2006. Avian and mosquito West Nile virus infection in greater Chicago Illinois during the 2005 epizootic. Fisheries and Wildlife Symposium, East Lansing, Michigan
1. **Loss, S. R.**, Brawn, J.D., Hamer, G.L., et al. 2006. Avian diversity and prevalence of West Nile virus in the Chicago, Illinois, epicenter. North American Ornithological Conference, Veracruz, Mexico.

Invited Talks

(*Indicates advised postdoctoral/graduate student; **Indicates advised undergraduate student)

28. **Loss, S.R.** August 2016. The state of the science on human-caused bird mortality as a basis for threat management. Bird Conservation Alliance Meeting in conjunction with North American Ornithological Congress, Washington, DC.
27. **Loss, S.R.** August 2016. Beyond the Treaty: Conservation of birds under new anthropogenic threats. North American Ornithological Conference - Symposium: Celebrating 100 years of bird conservation: The USFWS and the Migratory Bird Treaty Act, Washington, DC.
26. **Loss, S.R.** August 2016. The state of the science of cat predation on birds. North American Ornithological Conference – Symposium: Linking scientists and practitioners: Current anthropogenic issues and the best management practices and decision support tools for bird conservation in practice, Washington, DC.
25. *Riding, C.R. **Loss, S.R.** August 2016. Correlates of avian vulnerability to collisions with manmade structures. North American Ornithological Conference – Symposium: Identifying unifying factors driving bird population declines: Are life history traits all that matter? Washington, DC.
24. **Loss, S.R.**, Elmore, R.D., *Fogarty, D. February 2016. Northern Bobwhite in eastern Oklahoma: Current research and future opportunities. Oklahoma Natural Resources Conference – Symposium: Northern Bobwhite Research, Oklahoma City, OK.
23. *Riding, C.R. **Loss, S.R.** December 2015. A proposed field study of the role of lighting in bird-building collisions. Fundraiser of the Zoological Lighting Institute, San Francisco, CA
22. **Loss, S.R.** July 2015. Discussion panelist for screening of the documentary “The Messenger.” Joint Meeting of The American Ornithologists’ Union and The Cooper Ornithological Society, Norman, OK.
21. **Loss, S.R.**, Will, T., Marra, P.P. June 2015. Direct human-caused mortality of birds: A summary of major threats, management approaches, and research needs. Bird Education Alliance for Conservation (webinar presented to >100 bird conservation educators).
20. **Loss, S.R.**, Will, T., Marra, P.P. April 2015. Direct human-caused bird mortality: From analysis of individual threats to assessing cumulative impacts. University of Oklahoma, Department of Biological Sciences Seminar Series, Norman, OK.
19. **Loss, S.R.** March 2015. Free-ranging domestic cats as invasive species: Impacts on native wildlife and management controversies. Oklahoma Invasive Species Conference, Norman, OK.
18. **Loss, S.R.** January 2015. A comparison of sources of accidental human-caused bird mortality in the US: Bringing scientific data to conservation and policy decision-making. University of Central Oklahoma, Student Chapter of the Wildlife Society, Edmond, OK.

17. **Loss, S.R.**, Paudel, S. November 2014. Non-native invasive earthworms as ecosystem engineers: Assessing impacts on plant communities and vertebrate populations from forests to grasslands. Soil Biology Interest Group Seminar Series, Oklahoma State University, Stillwater, OK.
16. **Loss, S.R. (Invited plenary talk)**. October 2014. A comparison of sources of accidental human-caused bird mortality in the US: Bringing scientific data to conservation and policy decision-making. Annual Meeting of the Oklahoma Ornithological Society, Stillwater, OK.
15. **Loss, S.R.**, Will, T., Marra, P.P. (*Invited plenary talk*). August 2014. An overview of anthropogenic bird mortality in the United States: Systematic quantification and identification of research needs Midwest Bird Conservation and Monitoring Conference, Port Washington, WI.
14. **Loss, S.R.**, Will, T., Marra, P.P. May 2014. An overview of anthropogenic bird mortality in the United States: Systematic quantification and identification of research needs. XIX Meeting of the Canada/Mexico/U.S. Trilateral Committee for Wildlife and Ecosystem Conservation and Management; Migratory Bird Working Table. Queretaro City, Mexico (webinar presentation).
13. **Loss, S.R.** February 2014. Predation of US wildlife by free-ranging domestic cats: A systematic data-driven approach to mortality estimation. Oklahoma State University College of Veterinary Medicine – Seminar Series, Stillwater, OK.
12. **Loss, S.R.**, Will, T., Marra, P.P. August 2013. An overview of anthropogenic bird mortality in the United States: Systematic quantification and identification of research needs 5th International Partners in Flight Conference and Conservation Workshop – Special Session on Anthropogenic causes of bird mortality, Salt Lake City, UT.
11. **Loss, S.R.**, Will, T., Marra, P.P. April 2013. Bird-building collisions in the United States: data-driven estimates of annual mortality and species vulnerability. U.S. Fish and Wildlife Service - Roundtable on Bird Collisions and Building/Glass/Lighting, Arlington, VA.
10. **Loss, S.R.** March 2013. Informal presentation/discussion about my research program. American Association for the Advancement of Science (AAAS) – Science and Technology Policy Fellows Biodiversity Affinity Group, Washington, DC.
9. **Loss, S.R.** March 2013. How many birds are killed by humans in the United States? Maret School – Advanced High School Biology Class, Washington, DC.
8. **Loss, S.R.**, Will, T., Marra, P.P. September 2012. Quantitative estimation of the magnitude of direct bird mortality caused by anthropogenic threats in the U.S. Association of Fish and Wildlife Agencies – Bird Conservation Committee, Hilton Head Island, SC.
7. **Loss, S.R.**, Blair, R.B., Niemi, G. October 2011. Impacts of invasive earthworms on ground-nesting songbirds in northern forests. National Zoological Park - Conservation Seminar Series, Washington, DC.
6. **Loss, S.R.** May 2010. Earth Day presentation on invasive species. Our Savior's Lutheran Church, Hibbing, MN.
5. **Loss, S.R.**, Blair, R.B., Hale, C., Frelich, L., Hueffmeier, R., Host, G., Sjerven, G. July 2010. A rapid assessment technique for invasive earthworms in hardwood forests. Chequamegon-Nicolet National Forest Botany Camp, Woodruff, WI.
4. **Loss, S.R.**, Niemi, G., Blair, R.B. July 2010. An investigation of invasive earthworm impacts to ground-nesting songbirds in the Chequamegon-Nicolet National Forest. Chequamegon-Nicolet National Forest Botany Camp, Woodruff, WI.
3. **Loss, S.R.**, Blair, R.B. July 2009. Invasive earthworm impacts to ground-nesting songbirds: An update on research in the northwoods. Joseph Jenkins Lecture Series, Cable Natural History Museum, Cable, WI.
2. **Loss, S.R.**, Blair, R.B. July 2008. Exotic invaders in northern hardwood forests: Are earthworms altering native bird communities. Joseph Jenkins Lecture Series, Cable Natural History Museum, Cable, WI.
1. **Loss, S.R.**, Ruiz, M.O., Brawn, J.D. March 2008. Assessing determinants of avian community structure in a large metropolitan area using socio-economic and environmental factors. University of Minnesota, Dept. of Fisheries, Wildlife, & Conservation Biology Seminar Series, St. Paul, MN.

EXTRAMURAL GRANTS AWARDED as PI or CO-PI (**\$1,861,533 total**)

- Noden, B. (co-PI), Loss, S.R., (co-PI). Local and landscape-scale drivers of tick distribution and tick-borne pathogen prevalence in rapidly expanding urban and suburban areas. **Oklahoma Center for the Advancement of Science and Technology**. Amount Awarded: \$135,000.
- Loss, S.R. (PI), Eckles, J., Takekawa, J, Blair, R.B. Monitoring bird collisions at the new U.S. Bank Stadium: Capitalizing on a unique opportunity to benefit migratory bird conservation. **Minnesota Sports Facilities Authority**. Amount awarded: \$300,000 (\$85,397 to OSU). Period of service: 8-1-16 to 7-31-19.
- Katzner, T., (PI), Nelson, D., Diffendorfer, J., Loss, S.R., (co-PI), Yee, J., Allison, T., Duerr, A., Miller, T., Braham, M. Learning from real-world experience to understand renewable energy impacts to wildlife. **California Energy Commission, Electric Program Investment Charge (EPIC)**. Amount awarded: \$1,000,000 (**\$33,065** to OSU). Period of service: 8-1-15 to 7-31-18.
- Loss, S.R. (PI). Systematic analysis of collision mortality data to investigate impacts of wind energy development on U.S. wildlife and to evaluate biases influencing mortality estimates. **U.S. Geological Survey**. Research Work Order #47 (additional funding to previous cooperative agreement); Amount awarded: \$6,000; Period of Service: 4-30-14 to 12-31-15.
- Loss, S.R. (PI). Simultaneous assessment of factors influencing both visual and olfactory concealment of Northern Bobwhite nests in eastern Oklahoma. **McFarlin-Ingersoll Ranch, Inola, OK**. Amount awarded: \$130,533. Period of Service: 5-1-14 to 8-30-16.
- Loss, S.R., (PI), Longcore, T. (co-PI). San Clemente Island Invasive Species (earthworm) Assessment for Control or Eradication. **U.S. Department of Defense**, Cooperative Agreement # W9126G13-2-0047; Amount awarded: \$174,500; Period of Service: 9-30-13 to 9-30-15.
- Loss, S.R. (PI). Systematic analysis of collision mortality data to investigate impacts of wind energy development on U.S. wildlife and to evaluate biases influencing mortality estimates. **U.S. Geological Survey**; Research Work Order #47; Amount awarded: \$85,000; Period of Service: 4-30-13 to 12-31-15.
- Loss, S.R., (co-PI). Effects of invasive European earthworms on ground-nesting songbirds in northern hardwood forests. Amount awarded: \$30,500 from 14 awards.
- **American Museum of Natural History**, Chapman Ornithological Grant, \$1,000, Duration: May-September 2010.
 - **Explorer's Club** – Expedition Fund, \$750, Duration May-September 2010.
 - **National Science Foundation IGERT, Risk analysis for introduced species and genotypes, University of Minnesota**, Grant to support undergraduate research assistant, \$5,500, Duration: May-July 2010.
 - **U.S. Forest Service, Chequamegon-Nicolet National Forest**, Research Contract, \$2,500, Duration: May-September 2010.
 - **Minnesota Ornithologists' Union**, Research Grant, \$1,500, Duration: May-September 2010.
 - **University of Minnesota, Bell Museum of Natural History** – Wilkie Natural History Fund, \$950, Duration: May-September 2010.
 - **University of Minnesota, Bell Museum of Natural History** – Avian Conservation Research Fellowship, \$8,000, Duration: May-September 2009.
 - **Minnesota Ornithologists' Union**, Research Grant, \$3,000, Duration: May-September 2009.

- **Wisconsin Society for Ornithology**, Small Grant Program, \$500, Duration: May-Sept. 2009.
- **University of Minnesota, Graduate School** - Thesis Research Grant, \$2,500, Duration: May-September 2009.
- **University of Minnesota, Bell Museum of Natural History** – Wilkie Natural History Fund, \$1,000, Duration: May-September 2009.
- **American Ornithologists' Union**, Research grant \$1,700, Duration: May-September 2008.
- **University of Minnesota, Bell Museum of Natural History** – Wilkie Natural History Fund, \$800, Duration: May-September 2008.
- **St. Paul (MN) Audubon Society**, \$800, Duration: May-September 2008.

RESEARCH FUNDING AWARDED TO STUDENT ADVISEES (*\$7,000 total*)

(*Indicates advised postdoctoral/graduate student; **Indicates advised undergraduate student)

- **Ashton Roberts. The relationship between nighttime light levels and bird-window collisions. **Oklahoma Ornithological Society**. Amount awarded: \$500; Date of award: 4-1-16.
- **Riley Lawson. Effect of habitat fragmentation on the altitudinal distribution of mesocarnivores in the Ozark Mountain Forests: Implications for predation on birds. Wentz Scholarship Program, Oklahoma State University. Amount awarded: \$5,000; Date of award: 4-6-16.
- *Corey Riding. The effects of artificial illumination on window collisions by nocturnally migrating birds. **Payne County Audubon Society**. Amount awarded: \$1,000; Date of award: 3-21-16.
- **Elisa Elizondo. Investigation of free-ranging domestic cat density in Stillwater, Oklahoma: Potential associations with human population density and bird abundance and diversity. Oklahoma Ornithological Society. Amount awarded: \$500; Date of award: March 2014.

SELECTED HONORS, RECOGNITION, & ACADEMIC AWARDS

- **Oklahoma State University, Student Chapter of the Wildlife Society** – Wildlife Professional Award (given to recognize service to the organization); May 2015.
- **Smithsonian Postdoctoral Fellowship** – Smithsonian Conservation Biology Institute, National Zoological Park (2011-2013).
- **Outstanding Conservation Biology Graduate Student** – Conservation Biology Graduate Program; University of Minnesota (2009-2010).
- **National Science Foundation IGERT Fellowship** – Interdisciplinary graduate education and research traineeship (IGERT); Risk analysis for introduced species and genotypes; University of Minnesota (2008-10).
- **University of Minnesota Graduate School Fellowship** – Graduate School, University of Minnesota (2007-08 & 2010-11).
- **Avian Conservation Fellowship** – Bell Museum of Natural History, Univ. of Minnesota (2009).
- **Conservation Biology Graduate Program Summer Fellowship** – Univ. of Minnesota (2008).
- **American Ornithologists' Union Student Travel Grant** – 2010 Conference, San Diego, California.
- **Cooper Ornithological Society Student Travel Grant** – 2009 Conference, Tucson, Arizona.
- **American Ornithologist's Union Student Travel Grant**, 2008 Conference, Portland, Oregon.
- **Graduate and Professional Student Assembly Travel Grant** – Univ. of Minnesota (Spring 2009 and Spring 2010).

- **Janice Lee Fenske Memorial Award (Finalist)** – North-central Chapter of the Wildlife Society, presented at the 68th Midwest Fish and Wildlife Conference, Madison, WI (2007).
- **University of Illinois Jonathan Baldwin Turner Fellowship** – College of Agriculture, Consumer, and Environmental Sciences (2005-07).
- **University of Illinois Graduate College Fellowship** – (2005-06).
- **Educational Opportunity Travel Grant** – Department of Natural Resources and Environmental Sciences, University of Illinois (2006).
- **Arol Epple Ornithology Award** – Dept. of Biology, Univ. of Wisconsin - Stevens Point (2004).
- **Martha Sorensen Scholarship** – College of Natural Resources, Univ. of Wisconsin – Stevens Point (2004).
- **Sentry Insurance Scholarship** – College of Natural Resources, Univ. of Wisconsin – Stevens Point (2004).
- **Student Conservation Scholarship** – Waukesha Cty. (WI) Conservation Alliance (2002-03).
- **Jacques Vallier Memorial Scholarship** – College of Natural Resources, Univ. of Wisconsin – Stevens Point (2002).
- **Elda Barker Scholarship** – University of Wisconsin, Stevens Point (2000-2004).

TEACHING

Issues in Global Change Course, Oklahoma State University (NREM 4001), Spring 2014

- Implemented active learning techniques (e.g. group discussions and critical thinking exercises) to stimulate student interest and creativity, and development of oral communication skills
- Included special writing assignment (as part of Provost’s Faculty Development Initiative through ITLE) that promoted development of student critical thinking and writing communication skills

Applied Ecology and Conservation Laboratory Course, Oklahoma State University (NREM 3012), Fall 2014

- Major learning objective of course is to provide undergraduate students with hands-on experience with the scientific method, culminating in a 4-week independent research project.
- Consulted pedagogy literature to conducted review of outcomes for different types of hands-on research experiences for undergraduate students in the sciences; implemented several best practices when designing and teaching the course.

Special Topics in NREM Course, Oklahoma State University (NREM 5030)

- “Methods to model avian nest survival” (Spring 2015, 1 student)
- “Designing a citizen science monitoring program for amphibians” (Summer 2015, 1 student).

Undergraduate Research, Oklahoma State University (NREM 4980)

- Spring 2014 (2 students: Lisa Elizondo, Alicia Maple)
- Spring 2016 (2 students: Katie Schwartz, Ashton Roberts)

Natural Resources Ecology and Management Internship, Oklahoma State University (NREM 4960).

- Advised Joshua Sparks –internship at Woods and Associates, Inc. (summer 2014)
- Advised Bryce Owen – internship at Reagan Smith Energy Solutions (summer 2016)

CASNR Honors Thesis, Oklahoma State University (NREM 4980)

- Faculty advisor (Katie Schwartz), Spring 2016
- Faculty reader (Cassandra Rodebaugh), Spring 2015

Oklahoma Louis Stokes Alliance for Minority Participation, Participating Faculty Member

- Faculty research advisor, Spring 2016
- Faculty research advisor, Spring 2015

Guest Lectures

- Oklahoma State University – Ecology of Invasive Species (NREM 4033; Instructor: Karen Hickman), 2 lectures in Spring 2016
- Oklahoma State University - Ornithology (NREM 4464; Instructor: Tim O’Connell), Spring 2015
- Oklahoma State University - Ecology of Invasive Species (NREM 4033; Instructor: Karen Hickman), Spring 2016
- Oklahoma State University - Environmental Writing (ENGL 5583; Instructor: Rebecca Damron), (4 times in Spring 2016)
- University of Minnesota – Undergraduate Conservation Biology Course (Instructor: Karen Oberhauser), Spring 2011)
- University of Minnesota – Graduate Conservation Biology Course (Instructor: Rob Blair, Spring 2011)

NSF-IGERT Capstone Teaching Practicum, University of Minnesota (Fall 2010)

- Learned major approaches to teaching for higher education, including undergraduate and graduate courses.
- Extensive training to use cases studies as a teaching method, including development of a teaching case for the U of MN IGERT program’s curriculum and for the UN – Secretariat for the Convention on Biological Diversity’s teaching program to improve risk assessment approaches for genetically modified organisms.

Teaching Fellow – U. of Minnesota – Osher Lifelong Learning Inst. (Spring 2010-11)

- Developed and led course “An Introduction to the Birds of Minnesota”; classes primarily comprised of retirees with non-environmental professional backgrounds.

Educational Presentations

- **Bird Education Alliance for Conservation**. June 2015. Direct human-caused mortality of birds: A summary of major threats, management approaches, and research needs (webinar presented to >100 bird conservation educators across U.S.).

ADVISING AND MENTORING

Postdoctoral Research

- Dr. Shishir Paudel – study of earthworm invasions on San Clemente Island, California (Jan 2014-present)

Graduate Research

- Jared Elmore – PhD Student; study of large-scale threats to avian populations in the Great Plains as part of Dr. Fritz L. Knopf Fellowship program (to begin in Fall 2016)
- Matt Fullerton – MS Student and ODWC Endangered Species Biologist; study of factors affecting population recovery of Red-cockaded Woodpecker in Oklahoma (to begin in Fall 2016)
- Maureen Thompson – M.S. student; study of collision mortality data to investigate impacts of wind energy on U.S. wildlife and to evaluate biases influencing mortality estimates (Jan 2014-present)
- Corey Riding – PhD student; study of factors influencing bird-building collisions across multiple spatial scales (Aug 2014-present)
- Dillon Fogarty – M.S. student; study of visual and olfactory habitat characteristics associated with predation risk on ground-nesting birds (Aug 2014-present)

Undergraduate Research Projects:

- Chrissy Barton (OSU Temporary Technician) – Assessment of bird collisions with transparent bus shelters in Stillwater, Oklahoma.
- Ashton Roberts (OSU student) – Development of a protocol to measure light emission from buildings as a potential driver of bird-building collisions
- Katie Schwartz (OSU student) – Analysis of cat captures from the Operation catnip Trap-Neuter-Return operation (Jan-2016-present)
- Faithful Williams (OSU student) – Meta-analysis and database management study of the role of birds in carrying ticks and tick-borne pathogens (Jan-Jun 2015)
- Lisa Elizondo (OSU student) – independent study estimating free-ranging cat population density in Stillwater, OK (Jan 2014-present)
 - Submitted 2 small research grants under my advisor-ship (Oklahoma Ornithological Society, Payne County Audubon Society)
 - Awarded 1 research grant under my mentorship (\$250; Oklahoma Ornithological Society)
- Matthew Sharrow (University of Minnesota, Northstar STEM Alliance) - for PhD research studying invasive earthworm impacts on forest songbirds. Advised independent research project: "Non-native earthworm invasions in northern hardwood forests: How do plant communities change over time?" (2009)

Serves on Graduate Committees

- Erica Perez, MS Student, OSU NREM (Advisor: Sue Fairbanks)
- Caitlin Laughlin, MS Student, OSU NREM, (Advisor: Tim O'Connell)
- Danielle Perriman, MS Student, Dept. of Integrative Biology (Advisor: Jennifer Grindstaff)
- Daniel Logue, MS Student, OSU NREM (Advisor: Shannon Brewer)

PROFESSIONAL SERVICE/ACTIVITIES

Oklahoma State University

- Internal advisory board member – National Energy Solutions Institute

OSU Division of Agricultural Science and Natural Resources (DASNR)

- Internal reviewer for Oklahoma Cooperative Extension Service publication “The Basics of Vermicomposting” (Douglas W. Hamilton)

OSU Department of Natural Resource Ecology and Management (NREM)

- Search Committee Member – NREM department head position (2015)
- Ad hoc Committee Member – Natural Resource Management faculty position (2015)
- Ad hoc Committee Member and Search Committee Member – Landscape Hydrologist/Sustainability faculty position (2015)
- Volunteered to demonstrate and train students on bird mist-netting and banding for Student Chapter of the Wildlife Society “field day” (March 2015).
- Served on ad hoc committee to develop position description for Landscape Hydrology faculty position (Nov-Dec 2014)
- Served on ad hoc committee to develop position description for Forest Management faculty position (Mar-Apr 2015)

PROFESSIONAL

Journal Editorial Board Member – Studies in Avian Biology

Standardized Bird Mortality Reporting System – Serves as a science advisor for effort led by American Bird Conservancy (in collaboration with Cornell Lab of Ornithology, New York City Audubon, Toronto Fatal Light Awareness Program, National Audubon, and Smithsonian Migratory Bird Center) to develop a national bird mortality reporting system

BirdSafe™ Building Risk Assessment – Served as a science advisor for development of bird friendly building guidelines and risk assessment for an assessment tool to be implemented throughout Canada by the Canada Fatal Light Awareness Program (2014)

USFWS Advisory panel for bird-building collisions – Served on panel for USFWS effort to reduce bird-window collisions at federal buildings (2013-2014)

5th International Partners in Flight Conference and Conservation Workshop – steering committee member for special session: “Anthropogenic causes of avian mortality” (2013).

Smithsonian Conservation Biology Institute, National Zoological Park

- Coordinated weekly seminar series.
- Interacted with public at annual open house for science programs of the Smithsonian Conservation Biology Institute.
- Guided Smithsonian Migratory Bird Club field trips.
- Interacted with public about Smithsonian research and education programs during 2012 International Migratory Bird Day event (“An evening with Kenn Kaufman”).

Kolshorn Lecture Committee – Department of Fisheries, Wildlife, and Conservation Biology, University of Minnesota (2011) – organized and hosted guest lecture (Dr. David Wilcove) for department’s annual keynote seminar.

Conservation Biology Seminar Coordinator - Conservation Biology Graduate Program, University of Minnesota (2008-09) – invitation and hosting of internationally renowned guest speakers; procured funding to support guest lecture for the keynote talk by Dr. Keith Hobson.

Referee for peer-reviewed journals: Proceedings of the Royal London Society B, American Midland Naturalist, Avian Conservation and Ecology, Biological Conservation, BioScience, Conservation Biology, Diversity and Distributions, Ecohealth, Ecosystems, International Journal of Environmental Research and Public Health, Journal of Vector Ecology, Journal of Zoology, Landscape and Urban Planning, Studies in Avian Biology, Vector-borne Zoonotic Diseases, Wildlife Society Bulletin, Wilson Journal of Ornithology

Referee for grant programs: Graduate Women in Science (GWIS) Research Grant

Informal Consulting:

- Osage Nation (Pawhuska, OK) – Scoping meeting for a study of the impacts of the Osage Wind facility on birds (Dec 2015).
- TechVen Industries (Stillwater, OK) – Provided expertise related to bird-building collisions for effort to develop bird-friendly glass

PROFESSIONAL AFFILIATIONS

- American Ornithologists Union (2005-Present)
- Cooper Ornithological Society (2005-Present)
- Ecological Society of America (2005-Present)
- The Wildlife Society (2012-Present)

EXTENTION AND OUTREACH ACTIVITIES

Extension Meetings/Presentations

Payne County Master Gardeners. July 2016. Presentation on ecological effects of invasive earthworms.

Highland Park Elementary School After School Science Club. Feb-May 2016. Four-part educational program with OSU’s Environmental Writing graduate course (Instructor: Rebecca Damron): Using invasive earthworms to teach the scientific method.

Bird Education Alliance for Conservation. June 2015. Direct human-caused mortality of birds: A summary of major threats, management approaches, and research needs (webinar presented to >100 bird conservation educators).

Oklahoma Invasive Species Conference. March 2015. Free-ranging domestic cats as invasive species: Impacts on native wildlife and management controversies.

University of Central Oklahoma, Student Chapter of the Wildlife Society. January 2015. A comparison of sources of accidental human-caused bird mortality in the US: Bringing scientific data to conservation and policy decision-making.

Maret School – Advanced High School Biology Class. “Estimating how many birds are directly killed by human-caused threats in the United States” (March 2013) – Washington, DC.

Our Savior’s Lutheran Church, Hibbing, Minnesota (May 2010) - Earth Day presentation on invasive species

Chequamegon-Nicolet National Forest Botany Camp (July 2010; 2 presentations) – Woodruff, WI

- “A rapid assessment technique for invasive earthworms in hardwood forests.”
- “An investigation of invasive earthworm impacts to ground-nesting songbirds in the Chequamegon-Nicolet National Forest.”

Joseph Jenkins Lecture Series, Cable Natural History Museum, Cable, WI

- “Invasive earthworm impacts to ground-nesting songbirds: An update on research in the northwoods” (July 2009).
- “Exotic invaders in northern hardwood forests: Are earthworms altering native bird communities?” (July 2008)

Policy and Management Implications of Research

- Work on the impacts of cat predation on wildlife used and cited in development of District of Columbia State Wildlife Action Plan. Coverage at <http://www.washingtoncitypaper.com/blogs/citydesk/2015/09/01/district-may-target-feral-cats-as-part-of-wildlife-action-plan/>
- Bat mortality data summarized as part of USGS-funded research on wind energy used by U.S. Fish and Wildlife personnel to decide whether to include different bat species in regional Habitat Conservation Plans (required as part of an application for an incidental take permit).
- Work on direct anthropogenic mortality included in “The State of the Birds 2014”, an annual national report published by a consortium of 23 federal agencies and non-profit conservation organizations. (report available at: http://www.stateofthebirds.org/2014%20SotB_FINAL_low-res.pdf)
- Cat predation paper cited in American Bird Conservancy letter to the Secretary of the Interior (<http://www.abcbirds.org/abcprograms/policy/cats/pdf/FeralCatLetter.pdf>).
- U.S. Fish and Wildlife Service, Division of Migratory Birds, is using our papers that provide national estimates of bird mortality from different human-related threats (e.g., cats, windows, power lines, automobiles, wind turbines) to inform broad prioritizing decisions and to suggest service-wide policies for management of incidental take of birds.
- Biologists and conservation practitioners from federal agencies (e.g., National Park Service) and municipalities (e.g., city of San Jose, California) requested our mortality review papers to inform management decisions

Extension and outreach presentations and publications

- Presented educational talk about bird mortality research via webinar to the Bird Education Alliance for Conservation (>100 bird conservation educators), June 2015.
- Served as internal reviewer for OSU-DASNR/OCES publication “The Basics of Vermicomposting” (authored by Douglas Hamilton)

- Loss, S.R., Loss, S.S., Will, T., Marra, P.P. 2014. Best Practices for data collection in studies of bird-window collisions”. Covered in January 2014 article of Living Bird Magazine and available on the website of National Audubon Society: <http://bird-friendly.audubon.org/research-and-monitoring>
- “That smells like quail research” March 2016. Interviewed and quoted for OSU-DASNR Press Release. www.dasnr.okstate.edu/Members/sean-hubbard-40okstate.edu/that-smells-like-quail-research.
- “A more holistic approach to animal research needed” October 2015. Interviewed and quoted for OSU-DASNR Press Release: <http://www.dasnr.okstate.edu/Members/sean-hubbard-40okstate.edu/a-more-holistic-approach-to-animal-research-needed>
- “OSU researchers hunting for dead birds” May 2015. Interviewed and quoted for OSU-DASNR Press Release: <http://www.dasnr.okstate.edu/Members/sean-hubbard-40okstate.edu/osu-researchers-hunting-for-dead-birds>
- “Bird watching in winter weather” Feb 2015. Interviewed and quoted for OSU-DASNR Press Release: <http://www.dasnr.okstate.edu/Members/sean-hubbard-40okstate.edu/bird-watching-in-winter-weather>.
- “Unique visitor to Lake Carl Blackwell in Stillwater” Jan 2015. Interviewed and quoted for OSU-DASNR Press Release: <http://www.dasnr.okstate.edu/Members/sean-hubbard-40okstate.edu/unique-visitor-to-lake-carl-blackwell-in-stillwater>.
- ”Cold weather provides bird watching opportunities” 2-10-14. Interviewed and quoted for OSU-DASNR Press Release: <http://www.dasnr.okstate.edu/Members/sean-hubbard-40okstate.edu/cold-weather-provides-bird-watching-opportunities>.
- “Bird collisions with wind turbines reviewed” 11-20-13. Interviewed and quoted for OSU-DASNR Press Release. <http://www.dasnr.okstate.edu/Members/sean-hubbard-40okstate.edu/bird-collisions-with-wind-turbines-reviewed>

Media coverage of research

Olfactory ecology research

- “That Smells Like Quail Research.” 3-9-16. **High Plains Journal**. http://www.hpj.com/ag_news/that-smells-like-quail-research/article_3561a78e-d61d-509a-bc04-c1ea7a4aa0e5.html

Research comparing multiple sources of anthropogenic mortality of birds

- “Trump’s hot air on wind energy.” 6-2-16. **FactCheck.org**. <http://www.factcheck.org/2016/06/trumps-hot-air-on-wind-energy/>
- “Donald Trump said some things about energy.” 5-26-16. **The Huffington Post**. http://www.huffingtonpost.com/entry/donald-trump-energy_us_57475807e4b055bb1171a811

- “Carbon Capture.” 4-6-15. By Jonathan Franzen (in **The New Yorker** magazine). <http://www.newyorker.com/magazine/2015/04/06/carbon-capture>
- “Why birds can’t stop flying into things.” 1-11-15. **Test Tube, A Discovery Channel Digital Network**. <http://testtube.com/dnews/why-birds-can-t-stop-flying-into-things/>
- “Bye-bye birdies.” (infographic on bird mortality) November 2014. **Discover Magazine**
- “Wind turbines kill fewer birds than do cats, cell towers.” 9-15-14. **USA Today**. <http://www.usatoday.com/story/money/business/2014/09/15/wind-turbines-kill-fewer-birds-than-cell-towers-cats/15683843/>
- “Pecking order: energy’s toll on birds.” 8-22-14. **U.S. News and World Report**. <http://www.usnews.com/news/blogs/data-mine/2014/08/22/pecking-order-energys-toll-on-birds>

Highlights of media coverage of cat predation research (>300 stories total)

- Paper in Nature Communications covered by >300 media outlets worldwide, including most major television and radio outlets.
- “Cats kill billions” the #1 trending topic on both Google and Yahoo! on 1-29-13.
- New York Times article “That cuddly kitty is deadlier than you think” the most downloaded and most emailed article of the week for NYTimes.com.
- Smithsonian Office of Public Affairs estimated media coverage (not including TV) reached ≥ 550 million unique viewers and generated media attention equivalent to $\geq \$5.2$ million spent on advertising.
- Paper ranked #62 globally on Altmetric 2013 top 100 of academic research (<http://www.altmetric.com/top100>).

Example U.S Stories:

- “Trump’s hot air on wind energy.” 6-2-16. **FactCheck.org**. <http://www.factcheck.org/2016/06/trumps-hot-air-on-wind-energy/>
- “Donald Trump said some things about energy.” 5-26-16. **The Huffington Post**. http://www.huffingtonpost.com/entry/donald-trump-energy_us_57475807e4b055bb1171a811
- “Donald Trump says wind power is ‘killing all the eagles.’” 5-26-16. **The Independent**. <http://www.independent.co.uk/news/world/americas/donald-trump-says-wind-power-is-killing-all-the-eagles-a7051041.html>
- “Feast of cat shown on eagle cam scares feline owners: ‘Nature isn’t pretty.’” 5-2-16. **The Guardian**. <https://www.theguardian.com/environment/2016/may/02/eagle-cam-pittsburgh-cat-owners>
- “Are these cats the answer to Chicago’s rat problem?” 5-2-16. **MarketWatch**. <http://www.marketwatch.com/story/are-these-cats-the-answer-to-chicagos-rat-problem-2016-05-02?siteid=rss&rss=1>
- “The cat people vs. bird people war has made it to federal court.” 4-8-16. **The Washington Post**. <https://www.washingtonpost.com/news/animalia/wp/2016/04/08/the-cat-people-vs-bird-people-war-has-made-it-to-federal-court/>
- “Safe cat patios on display for Santa Cruz County Catio Tour.” 4-6-16. **San Jose Mercury News** and **Santa Cruz Sentinel**.
- “When animal rights backfire.” 4-8-16. **Takepart**. <http://www.takepart.com/article/2016/04/07/deer-cull-animal-rights?cmpid=tp-rss>

- “Cats as invasive species? The less-known facts about their wildlife impact.” 2-26-16. **The Huffington Post**. http://www.huffingtonpost.com/charles-knapp-phd/cats-as-invasive-species-_b_9320262.html
- “Australia wants to kill more than 2 million cats in the next five years.” 10-7-15. **Business Insider**. <http://www.businessinsider.com/australia-wants-to-kill-more-than-2-million-cats-in-the-next-five-years-2015-10>
- “Feral cats can destroy the environment.” 9-15-15. **Gizmodo**. <http://gizmodo.com/feral-cats-can-destroy-the-environment-1730710563>
- “Island’s feral cats kill surprisingly few birds, video shows.” 9-1-15. **National Geographic**. <http://news.nationalgeographic.com/2015/09/150901-feral-cats-birds-animals-science-nation/>
- “Could ‘catios,’ a.k.a. ‘Cat Patios’ prevent cats from destroying the planet? 8-12-15. **Vice**. http://www.vice.com/en_dk/read/how-portland-is-preventing-cats-from-destroying-the-planet-511
- “Pet owners won’t admit their cats harm wildlife.” 7-2-15. **Conservation Magazine**. <http://conservationmagazine.org/2015/07/pet-owners-wont-admit-their-cats-harm-wildlife/>
- “Cats vs. birds: Who has to die?” 3-13-15. **CBS News**. <http://www.cbsnews.com/news/cats-v-birds-who-has-to-die/>
- “Are songbirds the forgotten wind power victim?” 9-23-14. **Conservation Magazine**. conservationmagazine.org/2014/09/are-songbirds-the-forgotten-wind-power-victim/
- “Community discussion: Can pets be sustainable.” 8-29-14. **Salon**. http://www.salon.com/2014/08/29/community_discussion_can_pets_be_sustainable/
- “Outdoor cats no more than serial killers in fur coats.” 5-1-14. **Tampa Bay Times**. <http://www.tampabay.com/features/humaninterest/outdoor-cats-no-more-than-serial-killers-in-fur-coats/2177860>
- “Massive conservation coalition calls on Interior Department to stop wildlife deaths from feral cats.” 3-11-14. **American Bird Conservancy Press Release**. <http://www.abcbirds.org/newsandreports/releases/140311.html> (our paper was cited in a letter to the Secretary of the Interior)
- “Canadian and U.S. studies agree: Cats are the most lethal threat to birds”. 1-6-14. **Bird Watching Magazine**. <http://www.birdwatchingdaily.com/blog/2014/01/06/canadian-u-s-studies-agree-cats-lethal-threat-birds/>
- “North American birds declining as threats mount.” 6-21-13. **National Geographic**. <http://news.nationalgeographic.com/news/2013/06/130621-threats-against-birds-cats-wind-turbines-climate-change-habitat-loss-science-united-states/>
- “Are domestic cats backyard superpredators?” 2-26-13. **American Association for the Advancement of Sciences Member Central**. <http://membercentral.aaas.org/blogs/qualia/are-domestic-cats-backyard-superpredators>
- "Cats Kill Billions of Animals Annually, Study Finds". 1-29-2013. **ABC World News with Diane Sawyer** and ABCNews.com.
- "On the Hunt" 1-29-2013. NBC Nightly News with Brian Williams and nbcnews.com.
- "Study: Cats kill billions of animals a year". 1-29-13. **CBS This Morning** and **cbsnews.com**
- "Killer Kitties? Cats Kill Billions of Creatures Every Year" 1-29-13. **NPR Radio**
- "Behind Cute Face, A Cold-Blooded Killer: Study Finds Cats Kill Billions of Animals" 1-29-13. **NPR News**
- "That Cuddly Killer is Deadlier Than You Think" 1-29-13. **New York Times** (most emailed and shared NYTimes.com article of the week).

- "Cats, Soft and Deadly" 1-30-13. **New York Times Editorial.**
- "Cats Kill up to 3.7B Birds Annually" 1-29-13. **USA Today.**
- "Outdoor Cats Kill Between 1.4 and 3.7 Billion Birds A Year, Study Says" 1-31-13. **Washington Post**
- "Cats Kill 2.4 Billion Birds Annually" 1-31-13. **Smithsonian Science**
- "Cats Kill Billions of Small Critters Each Year" 1-29-13. **Smithsonian Magazine**
- "Cats Kill More Than One Billion Birds Each Year" 2-23-13. **Science News**
- "When Domesticated Cats Turn Deadly" 1-30-13. **Voice of America**
- "Hello Kitty! Please Don't Kill Me!" 1-29-13. **National Geographic**
- "Cats Kill Billions of Animals A Year" 1-29-13. **Discovery News**
- "Domestic Cats Kill Billions of Mice and Birds Per Year, Study Estimates" 1-30-2013. **Huffington Post**
- "Free-roaming Cats are Top Bird Killer Researchers Say" 1-29-13. **Bloomberg News**

Example International Stories:

- "Killer cats: deadly pets murder nearly 4 billion birds a year." 1-30-13. **The Telegraph.** <http://www.telegraph.co.uk/news/worldnews/northamerica/usa/9836471/Killer-cats-deadly-pets-murder-nearly-4-billion-birds-a-year.html>
- "Cats Killing Billions of Animals in the US" 1-29-13. **BBC.** Front page story on BBC News Website.
- "Killer Cats Take Down Billions of Birds, Report Says" 1-29-13. **CBC News.**
- "Killer cats leave billions of avian, rodent victims, study finds" 1-31-13. **CNN International**
- "Cats Are Responsible For Killing Billions Of Animals In The US, Warn Scientists" 1-30-13. **Huffington Post UK**
- "Cats killing billions of animals in US" 1-30-13. **News Track India**
- "Cats in US kill billions of birds, mammals" 1-30-13. **The Australian**
- "'Stone-cold serial killers': Domestic cats slaughter billions upon billions of animals in US every year" 1-30-13. **The Independent**
- "The Biggest Threat to U.S. Wildlife? Cats" 1-31-13. **Time Magazine Europe**
- "Cats responsible for 15 billion deaths a year" 1-31-13. **Voice of Russia**
- "US study says cats kill 'billions'" 1-30-13. **The New Zealand Herald**
- "Loving and Cute Cats – Greatest Threat to Wildlife" 1-30-13. **Top News Arab Emirates**

Research on Bird-window collisions

- "MSFA, Vikings announce bird collision study with Audubon Society.7-15-16. **CBS Minnesota.** <http://minnesota.cbslocal.com/2016/07/15/vikings-announce-bird-collision-study/>
- "Three-year, \$300000 study planned for bird deaths at new Vikings stadium." **NBCSports.com.** <http://profootballtalk.nbcsports.com/2016/07/15/three-year-300000-study-planned-for-bird-deaths-at-new-vikings-stadium/>
- "Vikings, US Bank Stadium officials propose bird study." 7-14-16. **NFL.com.** <http://www.nfl.com/news/story/0ap3000000674571/article/vikings-us-bank-stadium-officials-propose-bird-study>

- “US Bank Stadium officials plan three-year, \$300000 bird fatality study. 7-13-16. **Minneapolis Star Tribune**. <http://www.startribune.com/u-s-bank-stadium-officials-plan-three-year-300-000-bird-fatality-study/386676761/>
- “When a bird hits the glass, what to measure?” 7-5-16. **Minnesota Public Radio**. <http://www.mprnews.org/story/2016/07/05/vikings-bird-study>
- “Vikings stadium bird study in the works.” 6-30-16. **Minnesota Public Radio**. <http://www.mprnews.org/story/2016/06/30/vikings-stadium-bird-study>
- “Trump’s hot air on wind energy.” 6-2-16. **FactCheck.org**. <http://www.factcheck.org/2016/06/trumps-hot-air-on-wind-energy/>
- “Donald Trump said some things about energy.” 5-26-16. **The Huffington Post**. http://www.huffingtonpost.com/entry/donald-trump-energy_us_57475807e4b055bb1171a811
- “There’s a lot to unpack in just one of Donald Trump’s answers about energy policy.” 5-26-16. **The Washington Post**. <https://www.washingtonpost.com/news/the-fix/wp/2016/05/26/theres-a-lot-to-unpack-in-donald-trumps-answers-about-energy-policy/>
- “This pattern is made of 2,100 dead birds.” 3-10-16. **Smithsonian.com**. <http://www.smithsonianmag.com/smart-news/pattern-made-2100-dead-birds-180958379/?no-ist>
- Migratory birds are distracted by porch and streetlights. 4-13-16. **Newsweek**. <http://www.newsweek.com/migratory-birds-are-distracted-porch-and-streetlights-447582>
- “Is the new Vikings stadium giving birds concussions? 3-25-16. **Complex Sports**. <http://www.complex.com/sports/2016/03/vikings-stadium-bird-concussions>.
- “Rising skyscrapers are sentencing hundreds of millions of birds to death a year.” 12-9-15. **Nautilus**. http://nautil.us/blog/rising-skyscrapers-are-sentencing-hundreds-of-millions-of-birds-to-death-a-year?utm_source=RSS_Feed&utm_medium=RSS&utm_campaign=RSS_Syndication
- “Lights Out for Birds in New York.” 5-7-15. The Wildlife Society website and eNews bulletin. <http://wildlife.org/lights-out-for-birds-in-new-york/>
- “Saving the Songbird” April 2015. **Carnegie Magazine**. <http://www.carnegiemuseums.org/cmag/feature.php?id=503>
- “Danger in the mirror.” 2-8-15. **Hindustan Times (India)**. <http://www.hindustantimes.com/chandigarh/scarlet-in-the-spring/article1-1314758.aspx>
- “Energy production and wildlife: using syntheses for evidence-based decisions.” 10-30-14. **Journal of Applied Ecology – The Ecologist’s blog**. <http://jappliedecologyblog.wordpress.com/2014/10/30/energy-production-and-wildlife-using-syntheses-for-evidence-based-decisions/>
- “Are songbirds the forgotten wind power victim?” 9-23-14. **Conservation Magazine**. conservationmagazine.org/2014/09/are-songbirds-the-forgotten-wind-power-victim/
- “Risk of bird strikes embroil new stadium.” 7-27-14. **The Wall Street Journal** (interviewed for story). <http://online.wsj.com/articles/risk-of-bird-strikes-embroil-new-minnesota-vikings-stadium-1406503912>
- “Vikings won’t enhance stadium to save birds.” 7-24-14. **Minneapolis Star-Tribune**. <http://www.startribune.com/local/268319662.html>
- “Audubon society tags new Minnesota Vikings home as bird death trap.” 7-24-14. **Tech Times**. <http://www.techtimes.com/articles/11131/20140724/audubon-society-tags-new-minnesota-vikings-home-as-bird-death-trap.htm>
- “Vikings stadium plan pits fans vs. fowl.” 7-24-14. **Mother Nature Network**. <http://www.mnn.com/earth-matters/animals/stories/vikings-stadium-plan-pits-fans-vs-fowl>

- “New home of the Minnesota Vikings strongly condemned by Audubon.” 7-23-14. **Science Recorder**. <http://www.sciencerecorder.com/news/new-home-of-the-minnesota-vikings-strongly-condemned-by-audubon/>
- “Audubon Society, Vikings at odds over new stadium’s windows.” 7-23-14. **Fox Sports**. <http://www.foxsports.com/north/story/audubon-society-vikings-at-odds-over-new-stadium-s-windows-072314>
- “The Audubon Society calls the new Minnesota Vikings stadium a ‘death trap.’” 7-23-14. **The Washington Post**. <http://www.washingtonpost.com/blogs/early-lead/wp/2014/07/23/the-audubon-society-calls-the-new-minnesota-vikings-stadium-a-death-trap/>
- “New Minnesota Vikings stadium threatens Minnesota’s birds.” 7-23-14. **Audubon**. <http://www.audubon.org/newsroom/press-releases/2014/new-minnesota-vikings-stadium-threatens-minnesota-s-birds>
- “Audubon: Glassy new Vikings stadium poses serious threat to birds.” 7-23-14. **Wisconsin Gazette**. <http://www.wisconsin gazette.com/green-gaze/audubon-glassy-new-vikings-stadium-poses-serious-threat-to-birds.html>
- “Urban landscapes becoming increasingly bird-unfriendly.” 7-14-14. **Smithsonian Science**. <http://smithsonianscience.org/2014/07/urban-landscape-increasingly-bird-unfriendly/>
- “A window of opportunity.” 6-16-14. **Earthwise Radio**. A production of WAMC Northeast Public Radio and the Cary Institute for Ecosystem Studies. <http://wamcradio.org/EarthWise/?p=4542>
- “Researching stop signs in the skies for birds.” 5-14-14. **New York Times**. http://www.nytimes.com/2014/05/14/nyregion/researchers-hope-bird-friendly-glass-can-help-reduce-migration-deaths.html?ref=nyregion&_r=0
- “How many birds are killed by windows?” 5-4-13. **BBC**. <http://www.bbc.com/news/magazine-22395664>
- “High tower decisions.” 4-4-14. **Earthwise radio**. A production of WAMC Northeast Public Radio and the Cary Institute for Ecosystem Studies. <http://wamcradio.org/EarthWise/?p=4180>.
- “Collisions with buildings kill 365-988 million birds annually.” 4-2-14. **BirdWatching Magazine**. <http://www.birdwatchingdaily.com/blog/2014/04/02/collisions-with-buildings-kill-365-988-million-birds-annually/>
- “Birds versus windows.” 2-24-14. **Student Science – A resource of the Society for Science & the Public**. <https://student.societyforscience.org/article/birds-versus-windows>.
- “Birds should fear windows.” 2-20-14. **Nature** 506:269 (<http://www.nature.com/nature/journal/v506/n7488/full/506269c.html>) and (<http://www.nature.com/nature/journal/v506/n7488/pdf/506269c.pdf>)
- “Billion birds die annually in U.S. building collisions.” 2-17-14. **Environment News Service**. <http://ens-newswire.com/2014/02/17/american-feb-17-2014/>
- “Hundreds of millions of birds killed annually from building collisions.” 2-12-14. **Audubon Magazine**. <http://mag.audubon.org/articles/birds/hundreds-millions-birds-killed-annually-building-collisions-0>
- “Millions of birds killed annually due to window collisions.” 2-11-14. **Environmental News Network**. <http://www.enn.com/wildlife/article/47025>
- “Bird-building collisions in the United States: Estimates of annual mortality and species vulnerability” 2-10-14. **Smithsonian Migratory Bird Center, National Zoological Park**. http://nationalzoo.si.edu/scbi/migratorybirds/science_article/?id=339

- “Study finds up to one billion birds killed in building collisions each year.” 2-10-14. **EcoNews – Powered by EcoWatch**. <http://ecowatch.com/2014/02/10/study-one-billion-birds-killed-building-collisions/#/BlackoutGallery/320789/7>
- “365-988 million birds killed annually in U.S. window collisions. 2-10-14. **Mongabay**. <http://news.mongabay.com/2014/0210-bird-collisions.html>
- “Up to one billion birds may be killed annually in building collisions, new study says”. 2-7-14. **American Bird Conservancy** <http://www.abcbirds.org/newsandreports/releases/140207.html>
- “Windows kill up to 10% of America’s birds each year.” 2-5-14. **Newser**. <http://www.newser.com/story/181814/windows-kill-up-to-10-of-americas-birds-each-year.html>
- “Windows kill up to 10% of America’s birds each year”. 2-5-14. **World News Network**. http://article.wn.com/view/2014/02/05/Windows_kill_up_to_10_of_Americas_birds_eac_h_year/
- “Cats aren’t the only thing killing birds” 2-5-14. **Mother Nature Network**. <http://www.mnn.com/earth-matters/animals/stories/cats-arent-the-only-things-killing-birds>
- “As many as 988 million birds die annually in window collisions: 2-3-14. **The Washington Post**. (Interviewed for story) http://www.washingtonpost.com/national/health-science/stop-blaming-cats-as-many-as-988-million-birds-die-annually-in-window-collisions/2014/02/03/9837fe80-8866-11e3-916e-e01534b1e132_story.html
- “Collisions with windows kills between 365m to 988m birds in US annually: study” 1-28-14. **Newsnextbd.com**. <http://newsnextbd.com/en/collision-with-windows-kills-between-365m-to-988m-birds-in-us-annually-study/>
- “Windows may kill up to 988 million birds a year in the United States. 1-27-14. **Science News Magazine** (Interviewed for story). <https://www.sciencenews.org/article/windows-may-kill-988-million-birds-year-united-states>
- “Collisions with buildings claim about 600 million birds each year”. 1-23-14. **BirdWatching Magazine**. <http://www.birdwatchingdaily.com/blog/2014/01/23/collisions-buildings-claim-600-million-birds-year/>
- “Bird Friendly Buildings Could Save Millions” 1-13-14. **Conservation Magazine**.
- “Glass Action for Birds”. Winter 2014 print issue of **Living Bird Magazine**, A publication of the Cornell Laboratory of Ornithology. (Interviewed for story)
- "Collision Course: Scientists Struggle to Make Windows Safer for Birds" 9-21-13. Cover story in **Science News Magazine** (Interviewed for story)
- “Bird Strike: Deaths Caused by Collisions with Buildings Severely Dent Populations.” 3-1-2013. **The Ecologist** (Interviewed for story).
- “Visual innovations are letting birds and buildings coexist” 8-4-13. **Associated Press** (picked up in many newspapers).
- “Some cities adopting bird-friendly building rules.” 7-31-13. **Associated Press** <http://news.yahoo.com/cities-adopting-bird-friendly-building-rules-130645039.html> (picked up in many newspapers, including
- "House windows may kill 22 million Canadian birds each year" 11-15-12. **Mongabay.com** (Interviewed for story)

Research on Avian Interactions with Energy Infrastructure

- “Trump’s hot air on wind energy.” 6-2-16. **FactCheck.org**. <http://www.factcheck.org/2016/06/trumps-hot-air-on-wind-energy/>
- “Donald Trump said some things about energy.” 5-26-16. **The Huffington Post**. http://www.huffingtonpost.com/entry/donald-trump-energy_us_57475807e4b055bb1171a811
- “There’s a lot to unpack in just one of Donald Trump’s answers about energy policy.” 5-26-16. **The Washington Post**. <https://www.washingtonpost.com/news/the-fix/wp/2016/05/26/theres-a-lot-to-unpack-in-donald-trumps-answers-about-energy-policy/>
- “New studies highlight energy development’s impact on birds.” 4-20-16. **ScienceDaily**. <https://www.sciencedaily.com/releases/2016/04/160420083943.htm>
- “New studies highlight energy development’s impact on birds.” 4-20-16. **Science Newsline**. <http://www.sciencenewline.com/news/2016042020520012.html>
- “New studies highlight energy development’s impact on birds.” 4-20-16. **EurekaAlert**. http://www.eurekaalert.org/pub_releases/2016-04/copo-nsh041316.php
- “Will wind turbines ever be safe for birds?” 3-16-16. **Audubon**. <http://www.audubon.org/news/will-wind-turbines-ever-be-safe-birds>
- “Are songbirds the forgotten wind power victim?” 9-23-14. **Conservation Magazine**. conservationmagazine.org/2014/09/are-songbirds-the-forgotten-wind-power-victim/
- “Urban landscapes becoming increasingly bird-unfriendly.” 7-14-14. **Smithsonian Science**. <http://smithsonianscience.org/2014/07/urban-landscape-increasingly-bird-unfriendly/>
- “Will Newer Wind Turbines Mean Fewer Bird Deaths?” 4-27-14. **National Geographic**. <http://news.nationalgeographic.com/news/energy/2014/04/140427-altamont-pass-will-newer-wind-turbines-mean-fewer-bird-deaths/>
- “8 ways wind power companies are trying to prevent deadly collisions.” 1-6-14. **Mother Jones**. <http://www.motherjones.com/environment/2014/01/birds-bats-wind-turbines-deadly-collisions>
- “For the birds (and the bats).” 1-3-14. **Climate Desk** (<http://climatedesk.org/2014/01/for-the-birds-and-the-bats/>)
- “For the birds (and the bats). 8 ways wind power companies are trying to prevent deadly collisions.” 1-3-14. **Grist**. <http://grist.org/climate-energy/for-the-birds-and-the-bats-8-ways-wind-power-companies-are-trying-to-prevent-deadly-collisions/>
- “How many birds do wind turbines really kill?” 12-16-13. **Smithsonian.com**. <http://www.smithsonianmag.com/smart-news/how-many-birds-do-wind-turbines-really-kill-180948154/>
- “Estimating the extent of fatal bird collisions with wind turbines.” 12-11-13. **Natural Reactions**. <http://naturalreactions.wordpress.com/2013/12/11/estimating-the-extent-of-fatal-bird-collisions-with-wind-turbines/>
- “Study says wind farms kill more than 300K birds a year.” 12-11-13.” **Governer’s Wind Energy Coalition**. <http://www.governorswindenergycoalition.org/?p=7284>
- “Study shows newer wind turbines still killing hundreds of thousands of birds”. 12-10-13. **American Bird Conservancy** website (<http://www.abcbirds.org/newsandreports/releases/131210a.html>)
- “Study: Taller wind turbines kill more birds” 11-21-13. **KOSU – NPR affiliate in Oklahoma**. <http://kosu.org/2013/11/study-taller-wind-turbines-kill-more-birds/>
- “California wind power is the worst for wildlife”. 11-20-13. **KCET - Los Angeles**, California Independent and Educational TV/Radio. Study:

<http://www.kcet.org/news/rewire/wind/study-california-wind-turbines-deadliest-in-us.html>

- “Study: Taller wind turbines kill more birds.” 11-20-13. **The Journal Record**
<http://journalrecord.com/2013/11/20/taller-wind-turbines-kill-more-birds-study-says-energy/>
- “Researchers study estimates of bird collisions with wind turbines” 11-25-13. **The High Plains/Midwest Ag Journal**.
<http://www.hpj.com/archives/2013/nov13/nov25/1120BirdCollisions1PIXsr.cfm>
- Coverage by several Oklahoma newspapers including: **Broken Arrow Ledger, Comanche County Chronicle, Daily Ardmoreite, Piedmont-Surrey Gazette, Sapulpa Daily Herald, Stillwater News Press, Weatherford Daily News**

Research on Bird Collisions with Automobiles

- “Why birds can’t stop flying into things.” 1-11-15. **TestTube, A Discovery Channel Digital Network**. <http://testtube.com/dnews/why-birds-can-t-stop-flying-into-things/>
- “Urban landscapes becoming increasingly bird-unfriendly.” 7-14-14. **Smithsonian Science**. <http://smithsonianscience.org/2014/07/urban-landscape-increasingly-bird-unfriendly/>
- “Bird deaths from car crashes number in millions.” 5-29-14. **USA Today**
<http://www.usatoday.com/story/tech/2014/05/29/bird-deaths-car-crashes/9623931/>

Research on Bird Collisions and Electrocutions at Power Lines

- “Trump’s hot air on wind energy.” 6-2-16. **FactCheck.org**.
<http://www.factcheck.org/2016/06/trumps-hot-air-on-wind-energy/>
- “Donald Trump said some things about energy.” 5-26-16. **The Huffington Post**.
http://www.huffingtonpost.com/entry/donald-trump-energy_us_57475807e4b055bb1171a811
- “Urban landscapes becoming increasingly bird-unfriendly.” 7-14-14. **Smithsonian Science**. <http://smithsonianscience.org/2014/07/urban-landscape-increasingly-bird-unfriendly/>

Research on Invasive earthworm impacts on forest birds

- “The Ground Around Us.” 5-11-15. Conducted Interview for book project by Paul Bogard (author of “The End of Night”)
- "Earthworms to Blame for Decline of Ovenbirds in Northern Midwest Forest, Study Reveals" 2-29-12. **Smithsonian Science** (*Interviewed for story*) (This article was also linked to or re-posted on >200 websites).
- “Early Worm Gets the Bird” 3-10-12. **CBC Radio Science Program "Quirks and Quarks"** (*Interviewed for 9-minute long story*)
- "Earthworms to Blame for Decline of Ovenbirds in Northern Midwest Forests" 2-29-13. **ScienceDaily** (*Interviewed for story*)
- "Early Worm Gets the Bird" 12-5-11. **Conservation Magazine** (*Interviewed for story*)
- "The Worm Turns" Jan/Feb 2012. **Bird Watchers Digest**
"Little Worms, Big Consequences" December 2012. **Wisconsin Natural Resources Magazine** (*Interviewed for story*)
Also covered in (*and interviewed for*): **The Vancouver Sun, Montreal Gazette, and Ottawa Citizen newspapers, The Wildlife Professional, KAXE Northern**

Community Radio (Minnesota), WXPR Public Radio (Wisconsin), Ashland Current, and Wisconsin Outdoors Journal.

Research on Urban Ecology and Transmission of West Nile virus in Chicago, Illinois

- "Study: Latino Neighborhoods Have Less Green Space." 2012. **Chicago Sun Times**
- "Hispanic neighborhoods less green" 12-12-12. **University of Illinois at Chicago News Center.**
- "West Nile's Super Spreader: How About the American Robin?" 8-23-12. **University of Wisconsin-Madison News**
- "Robins Provide Clues in Tracking West Nile Virus. June 2010. Rock River Times
- "Do Chicago's Suburbs Hold the Key To Understanding West Nile Virus?" 7-22-09. **University of Wisconsin-Madison News**