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Faculty in Graduate Degree Program in Ecology  
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**EDUCATION**

B.S., Wildlife and Fisheries Biology, 1978, University of California - Davis  
M.S., Fisheries and Wildlife Biology, 1983, Utah State University  
Ph.D., Fishery and Wildlife Biology, 1991, Colorado State University

**PROFESSIONAL EXPERIENCE**

- Jan 2021 – Present: Professor Emeritus - Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- July 2004 – Dec 2020: Professor - Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- July 2007 – Aug 2018: Department Head - Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins, CO.
- July 2006 – June 2007: Interim Department Head - Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins, CO.
- June 2001 – Aug 2005: Chair, Undergraduate Major in Wildlife Biology - Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO
- 1995 – Present: Faculty, Graduate Degree Program in Ecology, Colorado State University, Fort Collins, CO
- July 1997 – June 2004: Associate Professor - Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- Aug 1991 – June 1997: Assistant Professor - Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- Aug 1987 – Aug 1991: Graduate Research Assistant - Colorado Cooperative Fish and Wildlife Research Unit, Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- June 1988 – Oct 1988: Wildlife Biologist - U.S. Fish and Wildlife Service, Patuxent Wildlife Research Center, Migratory Bird Research Branch, Laurel, MD.

Jan 1981– Sept 1983: Graduate Research Assistant - Utah Cooperative Wildlife Research Unit,  
Department of Fisheries and Wildlife, Utah State University, Logan, UT.

Spring Semester 1983: Teaching Assistant - Utah State University, College of Natural Resources,  
Logan, UT.

June 1981 – Sept 1981: Wildlife Biologist - Fish & Wildlife Service, Denver Wildlife Research  
Center,  
Albuquerque, NM.

**PUBLICATIONS (REFEREED)**

(Bold indicates student or postdoc under my supervision)

1. Wilson, K. R., and D. R. Anderson. 1985. Evaluation of two density estimators of small mammal population size. *Journal of Mammalogy* 66:13-21.
2. Wilson, K. R., and D. R. Anderson. 1985. Evaluation of a nested grid approach for estimating density. *Journal of Wildlife Management* 49:675-678.
3. Wilson, K. R., and D. R. Anderson. 1985. Evaluation of a density estimator based on a trapping web and distance sampling theory. *Ecology* 66: 1185-1194.
4. Wilson, K. R. 1992. An efficiency comparison between capture-recapture estimators derived using maximum likelihood and martingale theory. Pages 102-113 in *Wildlife 2001: Populations*, McCullough and Barrett eds. Elsevier Science Publishers.
5. Yip, P., D.Y.T. Fong, and K. Wilson. 1993. Estimating population size by recapture sampling via estimating function. *Communications in Statistics - Stochastic Models* 9:179-193.
6. Wilson, K. R., and L. E. O'Brien. 1994. Parameters for monitoring small mammal populations. *Transactions of the North American Wildlife and Natural Resources Conference*.59: 211-218.
7. Miller, J.R., T.T. Schulz, N.T. Hobbs, K.R. Wilson, D.L. Schrupp, and W.L. Baker. 1995. Changes in landscape structure of a southeastern Wyoming riparian zone following shifts in stream dynamics. *Biological Conservation* 72: 371-379.
8. Wilson, K.R., and D.R. Anderson. 1995. Continuous time capture-recapture population estimation when capture probabilities vary by time. *Environmental and Ecological Statistics* 2:55-69.
9. Dean, D. J., K. R. Wilson, and C. H. Flather. 1997. Spatial error analysis of species richness for a gap analysis map. *Photogrammetric Engineering and Remote Sensing* 63:1211-1217.
10. Flather, C. H., K. R. Wilson, D. J. Dean, and W. C. McComb. 1997. Identify gaps in conservation networks: of indicators and uncertainty in geographic-based analyses. *Ecological Applications* 7:531-542.

11. Andersen, D. C., K. R. Wilson, M. S. Miller, and M. Falck. 2000. Movement patterns of riparian small mammals during predictable floodplain inundation. *Journal of Mammalogy* 81:1087-1099.
12. Breck, S. W., K. R. Wilson, and D. C. Andersen. 2001. The demographic response of bank-dwelling beavers to flow regulation on the Green River. *Canadian Journal of Zoology* 79:1957-1964.
13. Harness, R. E., and K. R. Wilson. 2001. Electric-utility structures associated with raptor electrocutions in rural areas. *Wildlife Society Bulletin* 29:612-623.
14. Wilson, K. 2001. An efficiency comparison between capture-recapture estimators derived using maximum likelihood and martingale theory. Pages 102-113 In *Wildlife 2001: Populations*, D. R. McCullough and R. H. Barrett, editors. Springer.
15. Davis, R. D., Sr., S. Diswood, A. Dominguez, R. W. Engel-Wilson, A. K. Miles, R. Reidinger, S. Ruther, R. Valdez, K. R. Wilson, M. A. Zablan, K. Jefferson, E. F. Moore. 2002. Increasing Diversity in Our Profession. *Wildlife Society Bulletin* 30:628-633. (Peer edited)
16. Breck, S. W., K. R. Wilson, and D. C. Andersen. 2003. Beaver herbivory and its effect on cottonwood trees: influence of flooding along matched regulated and unregulated rivers. *River Research and Applications* 19: 43-58.
17. Falck, M., K. R. Wilson, and D. R. Andersen. 2003. Small mammals within riparian habitats of a regulated and unregulated arid-land river. *Western North American Naturalist* 63:35-42.
18. Root, J. J., W. C. Black, IV, C. H. Calisher, K. R. Wilson, R. S. Mackie, T. Schountz, J. N. Mills, and B. J. Beaty. 2003. Analyses of gene flow of deer mice (*Peromyscus maniculatus*) at sites near hantavirus pulmonary syndrome case-patient residences. *Journal of Wildlife Diseases* 39:287-298.
19. Miller, M. S., K. R. Wilson, and D. C. Andersen. 2003. Ord's kangaroo rats living in floodplain habitats: factors contributing to habitat attraction. *The Southwestern Naturalist* 48:411-418.
20. Breck, S. W., K. R. Wilson, and D. C. Anderson. 2003. Beaver herbivory of willow under two flow regimes: a comparative study on the Green and Yampa Rivers. *Western North American Naturalist* 63:463-471.
21. Root, J. J., W. C. Black, C. H. Calisher, K. R. Wilson, and B. J. Beaty. 2004. Genetic relatedness of deer mice (*Peromyscus maniculatus*) infected with Sin Nombre virus. *Vector-borne and Zoonotic Diseases* 4: 149-157.
22. Hadley, G. L., and K. R. Wilson. 2004. Patterns of small mammal density and survival following ski-run development. *Journal of Mammalogy* 85:97-104.
23. Hadley, G. L., and K. R. Wilson. 2004. Patterns of density and survival in small mammals in ski runs and adjacent forest patches. *Journal of Wildlife Management* 68:289-299.

24. Root, J. J., K. R. Wilson, C. H. Calisher, K. D. Wagoner, K. D. Abbott, T. L. Yates, A. J. Kuenzi, M. L. Morrison, J. N. Mills, and B. J. Beaty. 2005. Spatial clustering of murid rodents infected with hantaviruses: implications from meta-analyses. *Ecological Applications* 15: 565–574.
25. Reese, G. C., K. R. Wilson, J. A. Hoeting, and C. H. Flather. 2005. Factors affecting species distribution predictions: a simulation modeling experiment. *Ecological Applications* 15: 554–564.
26. Neubaum, D. J., T. J. O’Shea, and K. R. Wilson. 2006. Autumn migration and selection of rock crevices as hibernacula by big brown bats in Colorado. *Journal of Mammalogy* 87:470–479.
27. Holland, A. A., K. R. Wilson, and M. S. Jones. 2006. Characteristics of boreal toad (*Bufo boreas*) breeding habitat in Colorado. *Herpetological Review* 37:157–159.
28. Shriner, S. A., K. R. Wilson, and C. H. Flather. 2006. Reserve networks based on richness hotspots and representation vary with scale. *Ecological Applications* 16:1660–1673.
29. Trainor, A. M., T. S. Shenk, and K. R. Wilson. 2007. Characteristics of Preble’s meadow jumping mouse micro-habitat use in Colorado. *Journal of Wildlife Management* 71:469–477.
30. Neubaum, D. J., K. R. Wilson, and T. J. O’Shea. 2007. Urban maternity roost selection by big brown bats in North-central Colorado. *Journal of Wildlife Management* 71:728–736.
31. Trainor, A. M., K. R. Wilson, and T. S. Shenk. 2007. Spatial distribution of Preble’s meadow jumping mouse (*Zapus hudsonius preblei*) in response to resource supplementation. *American Midland Naturalist* 158:338–353.
32. Van Etten, K. W., K. R. Wilson, and R. L. Crabtree. 2007. Habitat use of red foxes in Yellowstone National Park based on snow tracking and telemetry. *Journal of Mammalogy* 88:1498–1507.
33. Baruch-Mordo, S., S. W. Breck, K. R. Wilson, and D. M. Theobald. 2008. Spatiotemporal distribution of black bear-human conflicts in Colorado. *Journal of Wildlife Management* 72:1853–1862.
34. Flather, C.H., K. R. Wilson, and S. A. Shriner. 2009. Geographic approaches to biodiversity conservation: implications of scale and error to landscape planning. Pages 85–121 In *Models for planning wildlife conservation in large landscapes*. J. J. Millspaugh and F. R. Thompson, III, editors. Elsevier.
35. Baruch-Mordo, S., S. W. Breck, K. R. Wilson, and J. Broderick. 2009. A tool box half full: how social science can help solve human-wildlife conflict. *Human Dimensions of Wildlife* 14:219–223.
36. Burdett, C. L., K. R. Crooks, D. M. Theobald, K. R. Wilson, E. E. Boydston, L. M. Lyren, R. Fisher, T. W. Vickers, S. A. Morrison, and W. M. Boyce. 2010. Interfacing models of wildlife habitat and human development to predict the future distribution of puma habitat. *Ecosphere* 1:Article4 (Inaugural July Issue).
37. Baruch-Mordo, S., S. W. Breck, K. R. Wilson, and J. Broderick. 2011. The carrot or the stick? Evaluation of education and enforcement as management tools for human-wildlife conflicts. *PLoS ONE* 6(1): e15681.

doi:10.1371/journal.pone.0015681

38. Trainor, A. M., T. S. Shenk, and K. R. Wilson. 2012. Spatial, temporal, and biological factors associated with Preble's meadow jumping mouse (*Zapus hudsonius preblei*) home range. *Journal of Mammalogy* 93:429-438.
39. Snider, E. A., P. M. Cryan, and K. R. Wilson. 2013. Day-roost selection by western long-eared myotis (*Myotis evotis*) at Mesa Verde National Park, Colorado. *Journal of Mammalogy* 94: 640-649.
40. Baruch-Mordo, S., Webb, C. T., S. W. Breck, and K. R. Wilson. 2013. Use of patch selection models as a decision support tool to evaluate mitigation strategies of human-wildlife conflict. *Biological Conservation* 160:263-271.
41. Reese, G. C., K. R. Wilson, and C. H. Flather. 2013. Program SimAssem: software for simulating species assemblages and estimating species richness. *Methods in Ecology and Evolution* 4:891-896.
42. Reese, G. C., K. R. Wilson, and C. H. Flather. 2014. Performance of species richness estimators across assemblage types and survey parameters. *Global Ecology and Biogeography*. 23: 585-594. doi: 10.1111/geb.12144
43. Baruch-Mordo, S., K. R. Wilson, D. L. Lewis, J. Broderick, J. S. Mao, and S. W. Breck. 2014. Stochasticity in natural forage production affects use of urban areas by black bears: implications to management of human-bear conflict. *Plos One* 9(1): e85122. doi: 10.1371/journal.pone.0085122
44. Garza, S. J., G. Bowser, and K. R. Wilson. 2014. Plant community changes following closure of artesian wells in Great Sand Dunes National Park, Colorado. *Western North American Naturalist* 74: 335-342.
45. Lewis, D. L., S. W. Breck, K. R. Wilson, and C. T. Webb. 2014. Modeling black bear population dynamics in a human-dominated stochastic environment. *Ecological Modelling* 294: 51-58. <http://dx.doi.org/10.1016/j.ecolmodel.2014.08.021>
46. H.E. Johnson, S.W. Breck, S. Baruch-Mordo, D.L. Lewis, C.W. Lackey, K.R. Wilson, J. Broderick, J.S. Mao and J.P. Beckmann. 2015. Shifting perceptions of risk and reward: dynamic selection for human development by black bears in the Western United States. *Biological Conservation* 187:164-172. doi:10.1016/j.biocon.2015.04.014
47. Lewis, D. L., S. Baruch-Mordo, K. R. Wilson, S. W. Breck, J. Mao, and J. Broderick. 2015. Foraging ecology of black bears in urban environments: guidance for human-bear conflict mitigation. *Ecosphere* 6:141. <http://dx.doi.org/10.1890/ES15-00137.1>
48. Garza, S. J., K. R. Wilson, and G. Bowser. 2015. Removal of artesian wells in Great Sand Dunes National Park and its aftermath on small mammals, plant cover, and area disturbance by ungulates. *Park Science* 32: 57-64.
49. Dannemiller, N. G., C. T. Webb, K. R. Wilson, K. T. Bentler, N. L. Mooers, J. W. Ellis, J. J. Root, A. B. Franklin, and S. A. Shriner. 2017. Impact of Body Condition on Influenza A Virus Infection Dynamics in

Mallards Following a Secondary Exposure. Plos One 12(4): e0175757.  
<https://doi.org/10.1371/journal.pone.0175757>

50. Schafer, T., S. W. Breck, S. Baruch-Mordo, D. L. Lewis, K. R. Wilson, and J. S. Mao. 2018. Black bear den site selection and characteristics in an urban environment. *Ursus* 29:25-31.  
<https://doi.org/10.2192/URSUS-D-17-00004.2>
51. Gorsich, E. E., C. T. Webb, A. A. Merton, J. A. Hoeting, R. S. Miller, M. L. Farnsworth, S. R. Swafford, T. J. DeLiberto, K. P., K. Pedersen, A. B. Franklin, R. G. McLean, K. R. Wilson, and P. F. Doherty, Jr. 2020. Continental-scale dynamics of avian influenza in U.S. waterfowl are driven by demography, migration and temperature. *Ecological Applications*. Online 24 Oct 2020. <https://doi.org/10.1002/eap.2245>

#### TECHNICAL PAPERS & REPORTS

- Wilson, K. R., J. D. Nichols, and J. E. Hines. 1989. A computer program for sample size computations for banding studies. U.S. Fish Wildl. Serv., Fish Wildl. Tech. Rep. 23. 19pp.
- Flather, C. H., K. R. Wilson, and D. J. Dean. 1996. The National Gap Analysis Program: a review and inspection of ecological assumptions. Pages 141 in *The National Gap Analysis Program: ecological assumptions and sensitivity to uncertainty*. NCASI Tech. Bull. 720. National Council of the Paper Industry for Air and Stream Improvement, Inc. Research Triangle Park, NC.
- Dean, D. J., K. R. Wilson, and C. H. Flather. 1996. The National Gap Analysis Program: sensitivity of GAP analysis to uncertainty in faunal distribution data and habitatbased predictions of species occurrence. Pages 4256 in *The National Gap Analysis Program: ecological assumptions and sensitivity to uncertainty*. NCASI Tech. Bull. 720. National Council of the Paper Industry for Air and Stream Improvement, Inc. Research Triangle Park, NC.
- Shenk, T. M., A. B. Franklin, and K. R. Wilson. 1996. A model to estimate the annual rate of golden eagle population change at the Altamont Pass Wind Resource Area. Pages 47-54 in *Proceedings of National Avian - Wind Power Planning Meeting II, Palm Springs, CA, 20-22 Sept. 1995*. Prepared for the Avian Subcommittee of the National Wind Coordinating Committee by RESOLVE Inc., Washington, D.C. and LGL Ltd., King City, Ont.
- Wilson, K. R. 1996. Population models: Their use and misuse. Pages 40-46 in *Proceedings of National Avian - Wind Power Planning Meeting II, Palm Springs, CA, 20-22 Sept. 1995*. Prepared for the Avian Subcommittee of the National Wind Coordinating Committee by RESOLVE Inc., Washington, D.C. and LGL Ltd., King City, Ont.
- Cook, R. R., C. H. Flather, and K. R. Wilson. 2000. Faunal Characteristics of the Southern Rocky Mountains of New Mexico: Implications for Biodiversity Analysis and Assessment. General Technical Report RMRS-GTR-58. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 55 p.
- Bender, D. J., C. H. Flather, K. R. Wilson, and G. C. Reese. 2005. Regional data to support biodiversity assessments: terrestrial vertebrate and butterfly data from the Southwest. General Technical Report

RMRS-GTR-152. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 43 p. + DVD.

Crooks, K., C. Haas, S. Baruch-Mordo, K. Middledorf, S. Magle, T. Shenk, K. Wilson, and D. Theobald. 2006. Roads and Connectivity in Colorado: Animal-Vehicle Collisions, Wildlife Mitigation Structures, and Lynx-Roadway Interactions. Final Report to the Colorado Department of Transportation. Colorado State University. 179 p.

Doherty, P. F., and K. R. Wilson, Editors. 2009. Avian influenza risk assessment for the United States: modeling pathways of disease spread by wild birds. Final Report to USDA-WS-APHIS-National Wildlife Research Center. Colorado State University. 106 p.

Yellowstone Ecological Research Center. 2011. Decision support for climate change adaptation in the GPLCC: creating geospatial data products for ecosystem assessments and predictive species modeling. Submitted to Great Plains Landscape Conservation Cooperative, U.S. Fish & Wildlife Service. Bozeman, MT, 25 p. [Collaborative Research Report with Yellowstone Ecological Research Center, Robert Crabtree-PI].

#### PUBLICATIONS (NON-REFEREED)

Harness, R. E., and K. Wilson. 1998. Raptor electrocutions. *IEEE Industry Applications Magazine* 4(3):25-31.

Harness, R. E., and K. Wilson. 1998. Review of falconers' electrocution data. *Hawk Chalk* XXXVII:79-81.

Wilson, K. R., T. S. Shenk, and A. M. Trainor. 2009. Of mice and politics: a long and tangled riparian tale. *Colorado Water Newsletter* 26(2): 2-4.

#### SUBMITTED OR IN PREPARATION

Samsel, M. K., J. W. Ellis, K. R. Wilson, and S. A. Shriner. Water transmission and infection dynamics of influenza A viruses in mallards and chickens. *In prep.*

Warner, K., K. R. Wilson, and K. Fristrup. Are two mics better than one? Comparing bat detector strategies. *In prep.*

Warner, K., K. R. Wilson, and K. Fristrup. Impacts of noise from energy development on bat activity levels in the field. *In prep.*

Wilson, K. R., J. L. Siemers, and S. Baruch-Mordo. Monitoring wildlife-vehicle collisions: analysis and cost-benefit of escape ramps for deer and elk. *In prep.*

#### PRESENTATIONS

(Indicates supervised graduate student or post-doctoral research associate)

Wilson, K. R. 1984. A comparison of four density estimators of small mammal population size. American Society of Mammalogist Annual Meeting. Humboldt State University.

- Anderson, D. R., K. R. Wilson, K. P. Burnham, and G. C. White. 1985. The trapping web: A design allowing a new analysis framework. Biometrics Society Meetings, ENAR section, Raleigh, NC.
- Anderson, D. R., K. R. Wilson, G. C. White, and K. P. Burnham. 1985. Comparison of four methods for estimating density of small mammal populations. Biometrics Society Meetings, WNAR section, San Luis Obispo, CA.
- Wilson, K. R. 1991. An efficiency comparison between capture-recapture population estimators derived using maximum likelihood and martingale theory. Wildlife 2001: Populations. Oakland, CA.
- Rexstad, E. A., and K. R. Wilson. 1992. Detection of changes in survival rates from treatment-control small mammal mark-recapture studies. Ecological Society of America Annual Meeting. Honolulu, HI.
- Wilson, K. R. 1994. Small mammal population estimation: Why abundance isn't the whole story. Department of Biology and Wildlife, University of Alaska, Fairbanks, AK. Invited.
- Wilson, K. R. and L. E. O'Brien. 1994. Parameters for monitoring small mammal populations. 59th North American Wildlife and Natural Resources Conference. Anchorage, AK. Invited.
- Wilson, K. R. 1995. Population Modeling: Uses and misues. Avian – Wind Power Planning Meeting II. Palm Springs, CA. Invited
- Falck, M. J., K. R. Wilson, and D. C. Andersen. 1995. Effect of altered flow regimes on movement patterns of riparian small mammals in northwestern Colorado. The Wildlife Society 2<sup>nd</sup> Annual Conference. Portland, OR.
- Johnson, B. M., K. R. Wilson, M. Vogelsang, and R. S. Stewart. 1996. Assessing effectiveness and sustainability of a walleye enhancement program. American Fisheries Society National Conference. Dearborn, MI.
- Miller, M. S., K. R. Wilson, and D. C. Andersen. 1997. Persistence of small mammal populations in regulated and unregulated riparian zones in Northwest Colorado. Society for Conservation Biology Annual Meeting. Victoria, British Columbia.
- Keldsen, T. J., and K. R. Wilson. 1997. The potential impacts of climate change on California clapper rail habitat. Ecological Society of America Annual Meeting. Albuquerque, NM.
- Miller, M. S., K. R. Wilson, and D. C. Andersen. 1997. Persistence and distribution of small mammal populations in response to disturbance, competition, and resource density in riparian areas of northwest Colorado. The Wildlife Society 4<sup>th</sup> Annual Conference, Snowmass Village, CO.
- Wilson, K. R. 1998. Design of population monitoring studies. Society of Environmental Toxicology and Chemistry - Rocky Mountain Chapter Meeting. Colorado State University, Fort Collins, CO. Invited.
- Wilson, K. R. 1998. Modeling/statistics for population monitoring studies. Wildlife Monitoring



- Design/Analysis Workshop. Wildlife Symposium: Integrating Wildlife Habitats & People Across Landscapes. Conflicts, Consequences & Solutions for the New West. Thorne Ecological Institute. University, April 19-22. Glenwood Springs, CO. Invited.
- Wilson, K. R. 1998. Effects of river regulation on small mammals and beaver in NW Colorado. Dept. of Biology, Montana State University, Bozeman, MT Invited.
- Wilson, K. R. 1998. Effects of river regulation on small mammals and beaver in NW Colorado. Dept. of Fishery & Wildlife, Oregon State University, Corvallis, OR. Invited.
- Breck, S. W., K. R. Wilson, and D. C. Andersen. 1999. Foraging of beaver as a function of changes in the distribution of willow and cottonwood due to flow regulation. International Association for Landscape Ecology: 5<sup>th</sup> World Congress, Snowmass, CO.
- Cook, R., C. Flather, and K. Wilson. 1999. Spatial differentiation among forest vertebrate communities of New Mexico. International Association for Landscape Ecology: 5<sup>th</sup> World Congress, Snowmass, CO.
- Breck, S. W., K. R. Wilson, and D. C. Andersen. 2000. River regulation influences on beaver herbivory. Ecological Society of America 85<sup>th</sup> Annual Meeting. Snowbird, UT.
- Root, J.J., W.C. Black, C.H. Calisher, K.R. Wilson, R.S. Mackie, T. Schountz, J.N. Mills, and B.J. Beaty. 2001. Microsatellite analyses of gene flow among populations of *Peromyscus maniculatus* at human hantavirus pulmonary syndrome case-patient residences. American Society of Mammalogists, Missoula, MT.
- Hadley, G. L., and K. R. Wilson. 2001. Short- and long-term effects of ski run development on small mammal populations at Vail Ski Area, Colorado. The Wildlife Society 8<sup>h</sup> Annual Conference, Reno, NV.
- Karl, B. A., K. R. Wilson, M. J. Hooper, and N. M. DuTeau. 2001. Population-based biomarkers: population genomics study of *Peromyscus maniculatus* mouse populations at the Anaconda Mine Superfund site. The Wildlife Society 8<sup>h</sup> Annual Conference, Reno, NV. Poster
- Breck, S. W., K. R. Wilson, and D. C. Andersen. 2001. Habitat changes and demographic response of bank-dwelling beavers to flow regulation on the Green River. The Wildlife Society 8<sup>h</sup> Annual Conference, Reno, NV. Poster
- Reese, G. C., K. R. Wilson, J. A. Hoeting, C. H. Flather, and D. J. Bender. 2002. Investigating the effects of sampling design on predicting species distributions using an autologistic regression model and covariates. 17th Annual Symposium, International Association for Landscape Ecology - United States Regional Association, Lincoln, NE.
- Bender, D. J., C. H. Flather, and K. R. Wilson. 2002. Evaluating methods for geographic-based biodiversity assessment: potential problems with identifying biodiversity hotspots from species-range data. Ecological Society of America 86<sup>th</sup> Annual Meeting. Madison, WI.

- Shriner, S. A., K. R. Wilson, D. J. Bender, C. H. Flather, and G. C. Reese. 2003. Biodiversity hotspots: is there empirical evidence that spurious relationships exist where species-range boundaries overlap? 19th Annual Symposium, International Association for Landscape Ecology - United States Chapter, Banff, Alberta, Canada.
- Trainor, A. M., K. R. Wilson, and T. M. Shenk. 2003. Microhabitat characteristics of Preble's meadow jumping mouse habitat and influences of resource additions on their distribution. The Wildlife Society 10th Annual Conference. Burlington, VT.
- Wilson, K. R., R. L. Crabtree, and M. A. Harter. 2003. What does relative abundance really mean? A case study using small mammals. 3rd International Wildlife Management Congress. Christchurch, New Zealand. Invited.
- Shriner, S. A., K. R. Wilson, C. H. Flather, and G. C. Reese. 2004. What is the appropriate resolution for hotspot analysis? Ecological Society of America 88<sup>th</sup> Annual Meeting. Portland, OR.
- Reese, G. C., K. R. Wilson, and C. H. Flather. 2004. The robustness of predicted species distribution maps to substitute 'absence' data. Ecological Society of America 88<sup>th</sup> Annual Meeting. Portland, OR.
- Baruch-Mordo, S., K. R. Wilson, and S. W. Breck. 2004. Spatial and temporal distribution of black bear-human conflicts in Colorado. Carnivores 2004: Expanding Partnerships in Carnivore Conservation. Defenders of Wildlife. 14-17 November. Santa Fe, New Mexico
- Baruch-Mordo, S., K. R. Wilson, and S. W. Breck. 2005. Spatial and temporal distribution of black bear-human conflicts in Colorado. Colorado Chapter of The Wildlife Society Winter Meeting: 12-14 January. Colorado Springs, CO.
- Wilson, K. R., T. F. Seibert, W. C. Leininger, R. O. Coleman, and D. Hein. 2005. Natural resource ecology and measurements: A summer, residential course in the Colorado rocky mountains. Symposium: The importance of extended field programs (summer camps) to undergraduate education: benefits and limitations. The Wildlife Society 12th Annual Conference. Madison, WI.
- Shriner, S. A., C. H. Flather, K. R. Wilson, G. C. Reese, and L. J. O'Gan. 2005. Where to conserve biodiversity: does map error affect our choice? Symposium: Overview and treatment of spatial errors in GIS applications. The Wildlife Society 12th Annual Conference. Madison, WI. Invited.
- Wilson, K. R. 2005. Issues in mapping biodiversity: consequences of map error & Preble's meadow jumping mouse: If you build it will they come? U.S. Geological Survey, Leetown Science Center, Kearneysville, WV. Invited.
- Neubaum, D. J., T. J. O'Shea, and K. R. Wilson. 2005. A year in the life of the dusky house flyer (*Eptesicus fuscus*). 35th Annual North American Symposium on Bat Research, 19-22 October, Sacramento, CA.
- Wilson, K. R., D. J. Neubaum, and T. J. O'Shea. 2006. Characteristics of urban maternity roosts and mountain hibernacula of the big brown bat in Colorado. 16 February, Eastern Oregon Agricultural Research Center, Oregon State University, Union, OR. Invited.

- Wilson, K. R., A. M. Trainor, and T. M. Shenk. 2006. If You Build It Will They Come? Insights about habitat requirements of the Preble's meadow jumping mouse. 8 March, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR. Invited.
- Baruch-Mordo, S., S. W. Breck, and K. R. 2006. Modeling predictors of black bear-human conflicts in Colorado. 9th Western Black Bear Workshop, April, Raton, NM.
- Baruch-Mordo, S., J. Broderick, S.W. Breck, K.R. Wilson. 2006. The ecology of black bears in mountain towns and a search for solutions to manage the conflict. Colorado Wildlife Commission, Steamboat Springs, August.
- Baruch-Mordo, S., J. Broderick, S. W. Breck, and K. R. Wilson. 2006. Modeling predictors of black bear-human conflicts in Colorado, and Roaring Fork valley urban black bear study: a search for better solutions to manage bear-human conflicts. Program for Interdisciplinary Mathematics, Ecology, and Statistics' workshop on wildlife conservation. Invited.
- Baruch-Mordo, S., K. R. Wilson, S. W. Breck, J. Broderick. 2007. Roaring fork valley urban black bear ecology. Association of Zoos and Aquariums Western Regional Conference, Denver, CO. Invited.
- Baruch-Mordo, S., K. R. Wilson, S. W. Breck, J. Broderick. February 2008. Urban black bear ecology – Part III. Aspen Center for Environmental Studies, Aspen, CO. Invited.
- Snider, E. A., K. R. Wilson, C. L. Cooke, and E. A. Sadler. 2008. Insect communities in burned and unburned piñon-juniper woodlands of Mesa Verde National Park, Colorado. The Association for Fire Ecology Regional Conference. Poster
- Wilson, K. R. 2008. The human footprint: managing wildlife resources in a growing world. Plenary Session, Texas Chapter of The Wildlife Society 43<sup>rd</sup> Annual Conference, San Antonio, TX. Invited.
- Snider, E. A., P. M. Cryan, and K. R. Wilson. 2008. Roost selection of western long-eared bats in Mesa Verde National Park, Colorado. The Wildlife Society 15th Annual Conference. Miami, FL.
- Baruch-Mordo, S., K. R. Wilson, S. W. Breck, and J. Broderick. 2008. Black bear-human conflicts: Understanding, modifying, and predicting human and bear behaviors in a Colorado urban setting. Berryman Institute Symposium, Starkville, MS. Invited.
- Baruch-Mordo, S., K. R. Wilson, S. W. Breck, and J. Broderick. 2008. Efficacy of education as a management tool in reducing bear-human conflicts in a Colorado urban setting. Pathways to Success: Integrating Human Dimensions into Fisheries and Wildlife Management, Estes Park, CO.
- Baruch-Mordo, S., K.R. Wilson, S. W. Breck, and J. Broderick. September 2009. Roaring Fork bear study – investigating the urban black bear legend. Invited presentation – Colorado Division of Wildlife Area Wildlife Managers meeting, Glenwood Springs, CO. Invited.
- Reese, G., K. Wilson, and C. Flather. 2009. Performance of species richness estimators across variations in

- community parameters. US-International Association for Landscape Ecology Annual Meeting, Snowbird, UT.
- Baruch-Mordo, S., S. W. Breck, K. R. Wilson, and J. Broderick. 2009. Investigating the urban black bear legend. 10th Western Black Bear Workshop, Reno, NV.
- Baruch-Mordo, S., S. W. Breck, K. R. Wilson, and J. Broderick. July 2009. Urban Bears. Rocky Mountain National Park, Science Behind the Scenery Series, Estes Park, CO. Invited.
- Baruch-Mordo, S., S. W. Breck, Wilson, K. R., and J. Broderick. 2009. Investigating the urban black bear legend. Colorado Chapter of The Wildlife Society summer meeting, Fort Collins, CO.
- Baruch-Mordo, S., Breck S.W, Wilson, K.R., Broderick J. 2009. Foraging ecology of black bears in a Colorado urban setting. Carnivores 2009 by the Defenders of Wildlife, Denver, CO.
- Burdett, C. L., D. M. Theobald, K. R. Wilson, W. M. Boyce, R. N. Fisher, L. M. Lyren, S. A. Morrison, T. W. Vickers, and K. R. Crooks. 2010. Interfacing models of species distribution and human development to predict the future distribution of suitable habitat and potential for human-wildlife conflict. Ecological Society of America 95<sup>th</sup> Annual Meeting. Pittsburgh, PA.
- Baruch-Mordo, S., Wilson, K. R., S. W. Breck, and J. Broderick. 2010. Urban black bear ecology: fluctuating synanthropy and its implications for management. The Wildlife Society 17th Annual Conference. Snowbird, UT.
- Burdett, C. L., D. M. Theobald, K. R. Wilson, W. M. Boyce, T. Winston Vickers, E. E. Boydston, L. M. Lyren, R. N. Fisher, S. A. Morrison, and K. R. Crooks. 2010. Scale-dependent effects of human development on wildlife distribution. Pathways to Success, Integrating Human Dimensions into Fisheries and Wildlife Management, Biennial meeting, Estes Park, CO
- Burdett, C. L., D. M. Theobald, K. R. Wilson, and K. R. Crooks. 2010. Predicting future habitat conditions with dynamic species-distribution models. NR493/793: Seminar on GIS and Remote Sensing Applications. Colorado State University and the U.S. Geological Survey's Fort Collins Science Center. Fort Collins, CO.
- Wilson, K.R., S. Baruch-Mordo, S. W. Breck, and J. Broderick. 2010. Managing Black Bear – Human Conflicts in Aspen, Colorado. 10 Sept 2010 Symposium for Beijing Normal University on Pandas, Black Bears and People: Managing Human Wildlife Conflict in China and the US. Colorado State University. Fort Collins, CO. Invited.
- Wilson, K. R., and M. Paschke. 2011. Piceance Basin Wildlife Study and Piceance Basin Ecological Restoration Project Updates. 2011 West Slope Colorado Oil & Gas Association Environmental Summit. Grand Junction, CO. Invited.
- Burdett, C., D. Theobald, K. Wilson, C. Rondinini, L. Boitani, and K. R. CROOKS. 2011. Novel tools for puma conservation. Tenth Mountain Lion Workshop. Bozeman, MT.

- Baruch-Mordo, S., C. Webb, S. Breck, and K. Wilson. 2012. Using pat selection models to evaluate effects of human-wildlife conflict management on wildlife foraging decisions. Society for Conservation Biology, N. American Congress for Conservation Biology. Oakland, CA.
- Garza, S. J., K. Wilson, and G. Bowser. 2012. POSTER: The effect of capping artesian wells on small mammal and plant biodiversity in the Great Sand Dunes National Park, Colorado. The Wildlife Society 19th Annual Conference. Portland, OR.
- Garza, S. J., K. Wilson, and G. Bowser. 2013. Ecological characteristics of capping artesian wells in the great sand dunes ecosystem, colorado: impacts on plant biodiversity. 2013 George Wright Society Conference on Parks, Protected Areas, and Cultural Sites. Denver, CO.
- Garza, S. J., K. Wilson, and G. Bowser. 2013. Changes in small mammal populations following capping of artesian wells in Great Sand Dunes National Park and Preserve. American Society of Mammalogists 93rd Annual Meeting, Philadelphia, Pennsylvania.
- Siemers, J. L., K. R. Wilson, S. Baruch-Mordo. 2013. Wildlife fencing and escape ramp monitoring: preliminary results for mule deer in southwest Colorado. International Conference on Ecology and Transportation. Scottsdale, Arizona.
- Breck, S., D. Lewis, S. Baruch-Mordo, K. Wilson, N. Lance, and V. Seher. 2013. Selective foraging for anthropogenic resources by black bears: how can this knowledge help managers? 22<sup>nd</sup> International Conference on Bear Research and Management. Provo, UT.
- Baruch-Mordo, S., K. R. Wilson, and S. W. Breck. 2013. Challenging current paradigms of urban bear management: lessons learned from Aspen, Colorado. 22<sup>nd</sup> International Conference on Bear Research and Management. Provo, UT.
- Warner, K., K. R. Wilson, and K. Fistrup. 2014. Field experiment to assess potential impacts of noise pollution on a bat community. Ecological Society of America 99th Annual Meeting. Sacramento, CA. Poster.
- Warner, K., K. R. Wilson, and K. Fistrup. 2014. Field experiment to assess potential impacts of noise pollution on a bat community. Colorado State University's 4th Annual Natural Gas Symposium. Denver, CO. Poster.
- Warner, K., K. R. Wilson, and K. Fistrup. 2015. A designed experiment to assess potential impacts of noise pollution on a bat community. The Wildlife Society 22nd Annual Conference. Winnipeg, Manitoba, Canada.
- Wilson, K. R. 2015. Tombstones for Wildlife Biologists: Unfounded Fear of the Public! Special Event: Ignite TWS. The Wildlife Society 22nd Annual Conference. Winnipeg, Manitoba, Canada. Invited.
- Huyvaert, K. P., K. N. Kita, L. Thornes, K. R. Wilson, and P. F. Doherty Jr. 2016, Developing new international courses at a new international center: lessons learned. Biennial Conference on University Education in Natural Resources, University of Wisconsin-Stevens Point.

- Wilson, K. R. 2017. Urban Bears & Cultural Diversity: Cost-Benefit of Foraging within UnNatural Resources. Department of Wildland Resources. Utah State University. Invited.
- Franklin, A. B., P. C. Carlson, A. Rex, J. T. Rockweit, K. Wilson, and P. Krueger. 2019. State of Northern Spotted Owls on U.S. Forest Service Lands. California Northern Spotted Owl Stakeholder Forum, Santa Rosa, California.
- Wilson, K. R. 2020. Speaker, Symposium: Dismantling Systemic Racism in the Wildlife Profession. The Wildlife Society 2020 Annual Conference. Virtual.

## TEACHING

### Courses Taught

- NR 120. Environmental Conservation, 3 credits. 1992-93. Introductory course in environmental science. Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- NR 220. Natural Resources Ecology and Measurements, 5 credits. 2001, 2003, 2004. Summer field course. Ecology of Rocky Mountain ecosystems. Basic measurements and integrated management of natural resources. College of Natural Resources, Pingree Park Campus, CO.
- NR 360. Quantitative Analysis for Natural Resources Management, 3 credits. Winter 1983. Lecture-discussion section to the main course. College of Natural Resources, Utah State University, Logan, UT.
- FW 100. Wildlife Fundamentals, 3 credits. 1994-2001. Introductory fisheries and wildlife biology course, Department of Fishery and Wildlife Biology, Fort Collins, CO.
- FW 111. Basic Outdoor Skills, 1 credit. 2010-2015. Introduction to basic field skills used in the profession, Department of Fish, Wildlife, and Conservation Biology, Fort Collins, CO.
- FWCC 192. Wildlife Inquiries, 1 credit. 1999, 2000. First-year undergraduate seminar in fishery and wildlife issues, includes laboratory and discussion sections, Department of Fishery and Wildlife Biology, Fort Collins, CO.
- FW 370. Design of Wildlife Projects, 3 credits. 1993-2001. Design of fishery and wildlife projects with emphasis on philosophy of science and proposal writing, Department of Fishery and Wildlife Biology, Fort Collins, CO.
- FW 492. Seminar-Wildlife Biology, 1 credit. 1991-94. Senior seminar. Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO.
- FW471. Wildlife Data Collection and Analysis, 4 credits. 2002-2007, 2019. Senior lecture and lab course in field and computer analyses methods used in wildlife management and research.

FW 551. Design of Fish and Wildlife Studies, 3 credits. 1993-2003, 2010, 2012. Graduate-level experimental design and philosophy of science course, Department of Fish, Wildlife, and Conservation Biology, Fort Collins, CO.

FW 552. Applied Sampling for Fish and Wildlife Studies, 3 credits. 2017. Graduate-level course on introduction to sampling with an emphasis on wildlife and fish problems. Department of Fish, Wildlife, and Conservation Biology, Fort Collins, CO.

FW 692. Graduate-Faculty Seminar in Fishery & Wildlife Biology, 1 credit. 1999, 2000, 2005. Department of Fishery and Wildlife Biology, Fort Collins, CO.

FW696. Graduate Student Orientation Seminar, 1 credit. Fall 2007-2010, 2018. Department of Fish, Wildlife, and Conservation Biology, Fort Collins, CO.

#### Workshops/Meetings/Symposia

Capture-recapture methods for closed populations. 17-18 July 1989. Savannah River Ecology Laboratory, Aiken, SC. Assistant.

Survival analysis of recapture data from marked animal populations. 23-27 September 1991 and 13-17 January 1992. Colorado State University, Fort Collins, CO. Assistant.

Ecological Risk Assessment and Management. Topic - "GIS: An Assessment Tool". 7-11 June 1993. Colorado State University, Fort Collins, CO. Lecturer.

Northern Spotted Owl survival analysis workshop. 10-21 December 1993. Colorado State University, Fort Collins, CO. Assistant.

Society of Environmental Toxicology and Chemistry (Rocky Mountain Chapter) short course, Topic: - "Experimental Design". April 1998. Colorado State University, Fort Collins, CO. Lecturer.

Wildlife Management Short Course. Topic: "Wildlife habitat, ecological succession, biodiversity". 2001-2004; 2007-2017. Colorado State University, Fort Collins, CO. Lecturer.

Bayesian Methods for Population Ecology Course. 4 - 8 September 2005. University of Cambridge, U.K. Participant.

Introduction to Distance Sampling 2 to 3-Day Workshops. Colorado State University, Fort Collins, CO January 2005, January 2006. Ohio State University, Columbus, OH August 2005; University of Missouri-St. Louis, MO January 2006. Texas Chapter of The Wildlife Society, San Antonio, TX February 2008. With Dr. Paul Doherty.

Using PDAs in teaching and the field Workshop. Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR. 8 March 2006. Organizer.

Bird Monitoring and Detectability: Understanding and Applying Appropriate Methods. Colorado Division of Wildlife and Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort

Collins, CO. 27 Feb – 1 Mar 2009. Co-organizer.

Applications Workshop: Programs Distance and Presence. Colorado Division of Wildlife and Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins, CO. 27-28 Feb 2009. Co-organizer.

Wildlife Management Short Course. Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins, CO. 26-30 March 2018. Organizer.

Basics of Distance Sampling. University of Rwanda-Huye. 16-17 May 2018. Co-organizer with T. Shenk.

Symposium: Dismantling Systemic Racism in the Wildlife Profession. 1 Oct 2020, Organizers: Jamila Blake, Carol Chambers, Tricia Fry Tracy Melvin, Gary White, and Ken Wilson. The Wildlife Society 2020 Annual Conference. Virtual.

#### ADVISING

##### Post-doctoral Research Associates:

- 1998-1999 Rosamond Cook. Faunal characteristics of the southern Rocky Mountains of New Mexico: implications for biodiversity analysis and assessment. Currently, Lead Biologist/Data Manager, Santa Ana Watershed.
- 2000-2001 Darren Bender. Regional data to support biodiversity assessments: terrestrial vertebrate and butterfly data from the southwestern U.S. Currently, Associate Professor, Department of Geography, University of Calgary, Alberta, Canada.
- 2002-2006 Susan Shriner. Using biological databases to improve biodiversity assessments and evaluation of two avian monitoring protocols for documenting trends in bird management of indicator species. Currently Research Scientist, USDA-APHIS National Wildlife Research Center, Fort Collins, CO.
- 2007-2010 Chris Burdett. Predicting changes in mountain lion distribution across the west. Current position unknown.
- 2012-2014 Graeme Shannon. Investigating the effects of noise on wildlife behavior. Lecturer, School of Biological Sciences, Bangor University, UK

##### Graduate Students: Completed as Advisor (18 M.S. and 4 Ph.D.)

- 1996 Shaunda K. Wenger. M.S. Evaluation of an impacted riparian wetland's soil seed bank for use in restoration. (co-adviser). Home maker, writer, and substitute teaching, Nibley, Utah.
- 1996 Miles Falck. M.S. Small mammal population dynamics in regulated versus unregulated riparian zones of Northwest Colorado. Wildlife biologist, Great Lakes Indian Fish and Wildlife Commission, Odanah, Wisconsin.
- 1997 Richard E. Harness. M.S. Raptor electrocutions caused by rural electric distribution powerlines. Environmental specialist with EDM, International, Fort Collins, Colorado
- 1997 Timothy J. Keldsen. M.S. Potential impacts of global climate change on California clapper rail habitat of South San Francisco Bay. Currently wildlife biologist with USFWS, San Luis NWR Complex, California.
- 1999 Michael S. Miller. M.S. (Ecology) Ecology of deer mice and Ord's kangaroo rat in riparian zones of regulated versus unregulated rivers in northwestern Colorado. Self employed GIS consultant.



- 1999 Cynthia L. McDonald. M.S. An object-oriented fuzzy knowledge-based system for use in population viability analysis. Self employed.
- 2001 Stewart W. Breck. Ph.D. (Ecology) The effects of flow regulation on the population biology and ecology of beavers in northwestern Colorado. Currently research wildlife biologist with USDA-APHIS-National Wildlife Research Center, Fort Collins, Colorado.
- 2002 Gillian L. Hadley. M.S. Effects of ski-run development on small mammals at Vail Ski Area, Colorado. At-home-mom and self-employed consultant on wildlife research.
- 2002 A. Andrew Holland. M.S. Evaluating boreal toad (*Bufo boreas*) breeding habitat suitability. State big game manager, Colorado Division of Parks and Wildlife, Durango, Colorado.
- 2003 Gordon C. Reese. M.S. (Ecology) Factors affecting the accuracy of predicted species distributions: a simulation experiment. Entered PhD program.
- 2003 J. Jeffrey Root. Ph.D. (Ecology) Transmission and trafficking of Sin Nombre virus in the deer mouse (*Peromyscus maniculatus*). Currently research wildlife biologist with USDA-APHIS-National Wildlife Research Center, Fort Collins, Colorado
- 2004 Anne M. Trainor. M.S. Influence of resource supplementation on movements of Preble's meadow jumping mouse (*Zapus hudsonius preblei*) and habitat use characteristics. (Co-adviser). 2005  
Barbara A. Gibson. M.S. Population genetic analysis of deer mice (*Peromyscus maniculatus*) on the Anaconda smelter site. (Co-adviser). Currently research associate at Colorado State University.
- 2005 Daniel J. Neubaum. M.S. Selection of urban maternity roosts and mountain hibernacula by big brown bats (*Eptesicus fuscus*) along a plains-mountain interface. (Co-adviser). Currently conservation biologist with the Colorado Parks and Wildlife, Grand Junction, Colorado.
- 2006 Keith van Etten. M.S. Habitat selection by red fox in Yellowstone National Park and mechanisms of coexistence with coyotes. Status unknown.
- 2007 Brooke Roeper, M.S. Plan B. (Co-adviser) History and ecology of Sin Nombre virus, a new world hantavirus in the United States. Currently High School Educator for the DNA Learning Center, Cold Spring Harbor, NY.
- 2007 Sharon Baruch-Mordo, M.S. (Co-Advisor) Black bear-human conflicts in Colorado: spatiotemporal patterns and predictors. Entered PhD program, see below.
- 2009 Elise Apple Snider, M.S. Post-fire insect communities and roost selection by western long-eared Myotis (*Myotis evotis*) in Mesa Verde National Park, Colorado. Regional Interdisciplinary Natural Resource / Environmental Education Specialist, SW Region, US Forest Service, Albuquerque, NM.
- 2012 Gordon C. Reese, Ph.D. (Ecology) Simulating species assemblages and evaluating species richness estimators. Science Technician, USGS-Fort Collins Science Center.
- 2012 Sharon Baruch-Mordo, Ph.D. (Ecology, Co-Advisor) Black bear ecology and human-bear interactions in an urban system. Spatial Ecologist with The Nature Conservancy, Fort Collins, CO.
- 2013 Sarah Garza, M.S. (Co-Advisor) Small mammal populations and plant community succession at artesian well sites in Great Sand Dunes National Park, Colorado. Research Associate, CSU Contractor with USDA-APHIS-National Wildlife Research Center, Fort Collins, CO
- 2013 David Lewis, M.S. (Co-Advisor) Influence of urban environments on black bear populations and foraging behavior. Wildlife Biologist, Colorado Parks and Wildlife, Durango, CO.
- 2016 Kathryn Warner, Ph.D. (Ecology) Investigating the effects of noise pollution from energy development on the bat community in the Piceance Basin. Program Director, Natural Resource Management, Colorado Mountain College, Leadville, CO.

Graduate Students: as Major Advisor (Current)

None

Graduate Students: as Committee Member

41 Completed (26 M.S.; 15 Ph.D.) 2 Ph.D., 1 M.S. in progress

Undergraduate and Other Students: as Mentor or Advisor or Honors Committee Member

1993-1994. Chris Carusona (Native American student). University Mentoring Program.

1994-2001. Patricia Ortiz. (Hispanic American student. Academic advising to motivate completion of B.S. degree in wildlife biology, conferred in 2001.

1994-1995. Janet Haslerig (African American) with Dr. David Anderson. Mentored in preparation for Ph.D. program. Successfully graduated with a Ph.D. from University of Florida.

1997 Melissa Schnier. NSF Research Experience for Undergraduates in Water Resources. Comparison of beaver herbivory following creation of Flaming Gorge Dam.

2002 Chris Olson. NSF Research Experience for Undergraduates in Water Resources. Characterizing microclimate of Preble's meadow jumping mouse habitat.

2003 Ryan Hale. NSF Research Experience for Undergraduates in Water Resources. Comparing microclimate in intensively used and unused areas of Preble's meadow jumping mouse.

2003 Laura Jamison. Research assistant on NSF project. Identification of hotspots of species richness: implications of error in GIS layers.

2005 Lindsey Rich. Honors Thesis: Effectiveness of wildlife regulations in minimizing human-black bear conflicts.

2009 Nicole Sedgeley. Honors Thesis: Wildlife-human interactions in Kenya.

2010 Elinor Jones. The Endangerment of Southern Sea Otters - 5th Grade Science Project. O'Dea Elementary School, Fort Collins, CO.

2017 Kira Paik. Honors Thesis Committee Defense. Spatial distributions of little brown bat day and maternity roosts in the Yampa Valley.

2018 Toryn Walton. Honors Thesis Committee.

2019 Mikaela Samsel. Avian Influenza Research with USDA-APHIS-NWRC. Co-adviser.

RESEARCH CONTRACTS (PI unless indicated otherwise)

1992-1995. Effects of global climate change on the endangered clapper rail in San Francisco Bay . U.S. Fish and Wildlife Service. \$23,165.

1992-1996. Effect of landscape heterogeneity on the estimation of survival. Colorado Division of Wildlife. \$38,356.

1993. Small mammal sampling design. Yellowstone Project. \$21,000.

1993-1995. Evaluation of GAP analysis. Rocky Mountain Research Station. \$25,000.

1995-1996. Density estimation of fresh water shrimp using distance sampling. USDA Forest Service. \$10,350. Co-PI.

1995-1997. A Comparison of small mammal population dynamics in an unregulated versus regulated riparian system. U.S. National Biological Service. \$97,236.

- 1996-1999. Biodiversity of the Jemez Mountains, New Mexico and Biological Diversity Assessment of New Mexico and Arizona. USDA Forest Service. Rocky Mountain Research Station. \$164,215.
- 1996-2000. Foraging behavior and population dynamics of beaver in regulated and unregulated, arid riparian ecosystems. U.S. Geological Survey, Biological Resource Division. \$147,218.
- 1999-2000. Potential grazing impacts on regional biodiversity in New Mexico and Arizona. USDA Forest Service. Rocky Mountain Research Station. \$48,977.
- 1998-2001. Effect of ski-run development on small mammal populations. Vail Associates. \$84,288.
- 1999-2001. Boreal toad habitat modeling. Colorado Division of Wildlife. \$57,244.
- 2000-2001. Development of a species database for New Mexico and Arizona for use in the management of grazing and other resource utilization activities. USDA Forest Service. \$172,306.
- 2001-2002. Migration of species database for New Mexico and Arizona to the national NRIS database. USDA Forest Service. Rocky Mountain Research Station. \$26,450.
- 2001-2003. Patterns of biodiversity in the southwestern USDA Forest Service. Rocky Mountain Research Station. \$46,092.
- 2001-2003. Preble's meadow jumping mouse – habitat restoration. Colorado Division of Wildlife. \$68,000.
- 2001-2003. Using biological databases to improve biodiversity assessments: new methods for geographic-based analysis. National Science Foundation \$294,838.
- 2002-2004. Potential impacts of a communication tower on avian species in Larimer County. Clear Channel Communication of Colorado \$38,049.
- 2003-2005. Ecology of Red Fox on Yellowstone's Northern Range. Yellowstone Ecological Research Center. \$32,077.
- 2003-2005. Spatial distribution of black bear-human conflicts in Colorado. USDA APHIS, National Wildlife Research Center. \$30,671.
- 2004-2007. Highway corridor, wildlife mitigation/habitat connectivity. Colorado Department of Transportation. \$150,000. Co-PI.
- 2004-2007. Wildlife Underpass (Lynx) Monitoring. Colorado Department of Transportation. \$50,000. Co-PI.
- 2004-2006. Effects of design, scale, and error on biodiversity assessment methods. USDA Forest Service. Rocky Mountain Research Station. \$40,444.
- 2005-2006. Evaluation of two avian monitoring protocols for documenting trends in bird Management

- Indicator Species. USDA Forest Service Southwest Region. \$57,500.
- 2005-2007. Development of a monitoring protocol for snowshoe hares in the Central Alaska Network. U.S. National Park Service. \$37,760.
- 2006-2007. Academic program in nuisance wildlife management. Jack H. Berryman Institute-Utah State University. \$16,665.
- 2007-2008. Human-black bear conflicts. City of Aspen. \$13,000.
- 2007-2009. Assessing the Conservation Status of Pumas through Habitat Modeling and Mapping. The Summerlee Foundation. \$111,600.00. Co-PI
- 2007-2009. Avian influenza risk assessment for the United States: modeling pathways of disease spread by wild birds. USDA-APHIS. \$499,981. Co-PI
- 2005-2010. Nuisance black bear conflicts in Colorado. USDA-APHIS National Wildlife Research Center. \$184,214.
- 2009-2010. Understanding Black Bear-Human Conflicts in Urban Environments. Jack H. Berryman Institute-Utah State University. \$15,000.
- 2009-2010. Environmental and Social Monitoring at Maxwell Ranch Wind Farm. 2009 Clean Energy Supercluster CSU Grant. \$29,000. Co-PI
- 2009-2013. Monitoring Wildlife Responses to Noise. National Park Service. \$30,028.
2010. Modeling the effects urban environments, conflict management, and variation in natural habitat on black bear populations. Jack H. Berryman Institute-Utah State University. \$16,500.
- 2009-2012. Development of geospatial habitat models for priority species in the Rocky Mountain Region. USDA-Forest Service. \$100,153.
- 2010-2011. Decision support for climate change adaptation in the GPLCC: Creating geospatial data products for ecosystem assessments and predictive species modeling. US Fish & Wildlife Service, sub-award through Yellowstone Ecological Research Center. \$62,087.
- 2010-2011. Landscapes of Conflict: incorporating socio-ecological dynamics into risk assessments of human-wildlife interactions. USDA-APHIS National Wildlife Research Center. \$13,640.
- 2010-2012. Carnivore conflict in urban areas of Colorado. USDA-APHIS National Wildlife Research Center. \$99,954.
- 2010-2014. Piceance Basin Wildlife and Habitat Studies 2010. ExxonMobil. \$498,823 (Study Coordinator, several PIs)

2011-2014. Statewide Aquatic Sonar Research Technician Training. Colorado Division of Parks and Wildlife. \$121,771.

2011-2014. Piceance Basin Wildlife and Habitat Studies 2011. ExxonMobil. \$1,000,000 (Study Coordinator, several PIs)

2012-2014. Piceance Basin Wildlife and Habitat Studies 2012. ExxonMobil. \$1,000,000 (Study Coordinator, several PIs)

2012-2016. Assessing wildlife responses to noise from energy development. ExxonMobil. \$344,978.

2014-2019. Study 1: 2014 Exxon Mobil Piceance Basin Wildlife Study. ExxonMobil. \$199,706.

2013-2014. Human-coyote conflict in urban landscapes of Denver, Colorado. USDA-APHIS National Wildlife Research Center. \$12,238.

2014-2016. FS-WCNR 2014 Natural Resources Science Camp. U.S. Forest Service-Rocky Mountain Research Station. \$12,295.

2014-2016. Increasing Diversity in the Department of Fish, Wildlife and Conservation and the Warner College of Natural Resources. Colorado State University. \$33,717.

2010-2019. Piceance Basin Wildlife and Habitat Studies 2010. ExxonMobil. \$152,802 (Study Coordinator)

2017-2019. Barred owl surveys on willow creek and avian influenza in waterfowl. USDA-APHIS National Wildlife Research Center. \$88,959.

2017-2021. 2017 Spotted owl demographic study: willow creek study area. USDA-USFS-Pacific SW. \$964,461.

2019-2024. 2020 Spotted owl demographic study: willow creek study area. USDA-USFS-Pacific SW. \$350,000.

#### HONORS & AWARDS

1997-1998, 2005-2006. Sabbaticals. Colorado State University.

1999. Harry E. Troxell Distinguished Service-To-Students Award, Awarded by the College of Natural Resources, Colorado State University.

2002, 2004. Favorite Faculty in the Department of Fishery & Wildlife Biology, College of Natural Resources College Council, Colorado State University.

2003. Jack E. Cermak Outstanding Advisor Award. Awarded by Colorado State University.

2010. U.S. Department of Agriculture Certificate of Appreciation for Participation with the 2010 Natural

Resources Science Camp, Rocky Mountain Research Station.

2013. Douglas L. Gilbert Award for Outstanding Achievements in Wildlife Sciences. Colorado Chapter of The Wildlife Society.

2016. USDA National Wildlife Research Center Publication Award for Johnson et al. 2015 Biological Conservation paper.

2018. Outstanding Service Award. Warner College of Natural Resources. Colorado State University.

2020. Natural Resources Team Award. Part of the FWCB team that developed the Semester Abroad programs at the CSU Todos Santos Center in Baja California Sur, Mexico. Warner College of Natural Resources. Colorado State University.

#### SERVICE – DEPARTMENT, COLLEGE, AND UNIVERSITY

1991. Participant. CSU's Image and Culture Task Force - Office of the President, 1991. Colorado State University.

1991-2000. Member. Scholarship Committee. Department of Fishery and Wildlife Biology, Colorado State University.

1993. Participant. Colorado Cooperative Fish & Wildlife Research Unit. Attended coordinating meeting and mini-workshop on recruiting and hiring female and minority candidates.

1993. Participant. Curriculum Infusion. Academic year program to help infuse multiculturalism into advising and teaching. Colorado State University

1994. Faculty Advisor. Minorities in Agriculture, Natural Resources, and Related Sciences student organization. College of Natural Resources, Colorado State University, Fort Collins, CO.

1994 - Session moderator. Minorities in Agriculture, Natural Resources, and Related Sciences Conference. Colorado State University, Fort Collins, CO.

1995. Member. Search Committee. Visiting Lecturer. Department of Fishery and Wildlife Biology, Colorado State University.

1996- Member. Search Committee. Landscape Ecologist. Department of Fishery and Wildlife Biology, Colorado State University.

1997. Member. Martin Luther King Scholarship Committee - Graduate School. Colorado State University.

1997, 1998. Member. Search Committee. Department Head. Department of Fishery and Wildlife Biology, Colorado State University.

1999. Member. Search Committee. Fish Culture/Genetics. Department of Fishery and Wildlife Biology,

Colorado State University.

2000. Member. Search Committee. Pingree Park Director. College of Natural Resources.

2000. Member. Pingree Park Vision Committee. College of Natural Resources. Colorado State University.

2000-2002. Member. Biometrics & Informatics Vision Committee. College of Natural Resources. Colorado State University.

1991-2000. Member. Computer Committee. Department of Fishery and Wildlife Biology, Colorado State University.

2000 – 2005. Member. McNair Scholarship Committee. Colorado State University.

2001-2002. Chair. Pingree Park Action Committee. College of Natural Resources. Colorado State University.

2001-2002. Chair. Search Committee. Wildlife Biologist (Large Mammals). Department of Fishery and Wildlife Biology, Colorado State University.

2001-2005. Member. Curriculum Committee. Department of Fishery and Wildlife Biology and College of Natural Resources, Colorado State University.

2001-2005. Member. Equal Opportunity Committee, Colorado State University.

2001-2003. Co-adviser. Student Chapter of the Society for Conservation Biology. Colorado State University.

2004. Chair. Search Committee. Advisor/Instructor. Department of Fishery and Wildlife Biology, Colorado State University.

2006. Member. Search Committee. Dean, Warner College of Natural Resources. Colorado State University.

2007-2008. Technical Representative. Colorado Plateau Cooperative Ecosystem Study Unit (CESU). Colorado State University

2007. Chair. Search Committee. Director - Center for Environmental Management of Military Lands, Warner College of Natural Resources. Colorado State University.

2007. Chair. Search Committee. Instructor. Department of Fish, Wildlife, and Conservation Biology, Colorado State University.

2007-2009. Advisor. Student Chapter of The Wildlife Society. Colorado State University.

2008. Chair. Search Committee. Associate Dean of Research and Engagement. Warner College of Natural Resources. Colorado State University.

2008. Participant. Sexual Harassment Training. Office of Equal Opportunity and Diversity, Colorado State University.
- 2008-2009. Member. Search Committee. Dean of College of Agricultural Sciences. Colorado State University.
- 2009-2010. Member. Warner College of Natural Resources Computer Committee. Department Representative, Colorado State University.
2009. Member. Department of Statistics Program Review Team. Colorado State University.
2009. Chair. Search Committee. Director - Center for Environmental Management of Military Lands, Warner College of Natural Resources. Colorado State University.
2009. Participant. Sexual Harassment On-line Training. Colorado State University.
- 2009-2010. Member. Task Force To Review Tuition Distribution Models. Colorado State University.
2010. Member. Freshmen Preview "Insights from Faculty" Panel. Summer. Colorado State University.
2010. Chair. Ad hoc Computer Committee. Evaluate functionality of college website. Warner College of Natural Resources. Colorado State University.
2010. Presenter. U.S. Forest Service Science Camp at CSU Pingree Park Campus for African American Job Corps students. Warner College of Natural Resources. Colorado State University. 11 Sept.
2010. Session Moderator. Pathways to Success 2010: Integrating Human Dimensions in to Fish and Wildlife. Human Dimensions of Natural Resources-Warner College of Natural Resources. Estes Park, CO.
- 2010 to 2016. Member. Faculty of CSU Alliance for Graduate Education and the Professoriate (AGEP): Initially NSF funded program, now CSU funded, to recruit and mentor underrepresented minority graduate students.
- 2010-2013. IT Group Liaison to the Dean Warner College of Natural Resources.
2011. Acting Dean, Warner College of Natural Resources. June-July 2011.
2014. Faculty Participant. Rocky Mountain Sustainability and Science Network Summer Academy. Focus on developing leadership, science, collaborative partnerships and education in college students. Greater Yellowstone Ecosystem. May 23-26.
2014. Co-organizer and Faculty Mentor. U.S. Forest Service-WCNR Natural Resources Science Camp. USDA-USFS-Rocky Mountain Research Station. Colorado State University. 4-6 Aug.
2014. Co-organizer. Biodiversity and One Health: One Health Initiative Dinner Mini-Symposium, Colorado State University, Fort Collins, Colorado. 4 Nov.



2016-2018. Special Course Fee Committee. Committee member. Colorado State University.

2016-2018. Member Faculty of CSU Graduate Center for Diversity and Access (GCDA). CSU Graduate School program to increase graduate student diversity.

2019. Chair. Search Committee. Assistant/Associate Professor in Diversity and Inclusion in the Natural Resources. Warner College of Natural Resources. Colorado State University.

2019 (fall). Tenure and Promotion Committee. Department of Fish, Wildlife, and Conservation Biology, Colorado State University.

2019-2020. Mentoring and Reappointment Committee. Department of Fish, Wildlife, and Conservation Biology, Colorado State University.

2019-. Mentoring Committee for Gillian Bowser, Associate Professor. Department of Ecosystem Science and Sustainability, Colorado State University.

#### SERVICE – PROFESSIONAL

Reviews for: Asian Primates Journal, Biological Conservation, Central European Journal of Biology, Copeia, Ecology, Ecological Applications, Human Dimensions of Natural Resources, Journal of Applied Ecology, Journal of Mammalogy, Journal of Wildlife Management, Transactions of the American Fisheries Society, Landscape Ecology, Landscape and Ecological Engineering, National Science Foundation, PlosOne, River Research and Applications, Southwestern Naturalist, Western North American Naturalist, Wetlands, Wildlife Research, Wildlife Society Bulletin

1992. Northeast Rep to Executive Board. Colorado Chapter of the Wildlife Society.

1994. Member. Cultural Diversity Work Group. Colorado Division of Wildlife. Developed a plan to increase ethnic and gender diversity in the Terrestrial Section of the Colorado Division of Wildlife.

1995. The Wildlife Society 2nd Annual Conference, Session moderator, Portland, OR.

1995. Dynamics of Wildlife Populations. Session Moderator. The Wildlife Society 2<sup>nd</sup> Annual Conference. Portland, OR.

1998-2001. Member. The Wildlife Society's Gender and Ethnic Diversity Committee.

2002. Invited Participant. Scoping Workshop – Vital Signs Monitoring Program, Central Alaska Network. U.S. National Park Service. 2-3 April. Fairbanks, AK.

2004, 2005. Associate Editor (Ad hoc). Ecological Applications

2005. Member. Evolution and Population Ecology Panel. National Science Foundation. Arlington, VA.

2007. Member. External Review Committee. Program Review of Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR. USDA CREES Review.
2007. Member. Search Committee. Epidemiologist. USDA-APHIS-WS-National Wildlife Research Center, Fort Collins, CO.
2008. Invited Presenter. Rotary International Club. Black bear – human wildlife conflicts presentation. Estes Park, CO.
2008. Member. Search Committee for Assistant Director, USDA-APHIS-WS-National Wildlife Research Center, Fort Collins, CO.
2009. Participant. Congressional Black Caucus Institute, 21st Century Council, 20-22 February, Myrtle Beach, SC.
2010. Media Interviews – RealAspen.com Online Newspaper; KKFM Radio – Colorado Springs; KMPS Radio – Glenwood Springs, CO. Black bear-human conflicts. 21 July.
2011. Chair. External Program Review Committee. Department of Wildlife and Fisheries Sciences Academic Program Review. Texas A&M University. 6-9 February.
2011. Member. USGS North Central Climate Science Center Director Search. University Consortium Search Committee. Colorado State University. Fort Collins, CO.
- 2012- Alternate University Rep for CSU. USGS North Central Climate Science Center Colorado State University. Fort Collins, CO.
2012. Member. External Program Review Committee. Wildlife Program Review. University of Montana. 18-21 March.
2014. Co-organizer and Moderator, "Wildlife and Natural Gas Extraction in the Piceance Basin, Colorado: Impacts and Mitigation", XTO Energy, CPW, and WCNR-CSU Plenary Session at the CCTWS Annual Winter Meeting on Wildlife, Fort Collins, CO.
2015. Member. External Program Review Committee. Department of Fish and Wildlife Sciences. University of Idaho. 25-27 October.
- 2012-2016. Member, U.S. Department of Agriculture's National Wildlife Services Advisory Committee. USDA Office of the Secretary.
- 2012-2017. Secretary-Treasurer. National Association of Fisheries and Wildlife Programs.
2017. Minorities and Underrepresented Individuals in Natural Resource Sciences. Interview by Daniel Kinka. Science Reporter. Utah Public Radio. Utah State University.
2017. Panel Member, TWS Leadership Institute. Discussion with student leaders. September 25, 2017. The

Wildlife Society 24<sup>th</sup> Annual Conference, Albuquerque, NM.

2006-Present. Member. Scientific Advisory Council. Yellowstone Ecological Research Center. Bozeman, MT.

2020. Member. External Program Review Committee. Wildlife Program Review. University of Montana. 9-11 February.

2020. Member. Research Grade Evaluation (RGE) Panel. USDA National Wildlife Research Center. Fort Collins, CO. February.

2020. External Examiner for Doctor of Philosophy Candidate's Thesis. School of Biological, Earth and Environmental Sciences, Faculty of Science, University of New South Wales, Sydney, Australia. Spring.

PROFESSIONAL MEMBERSHIPS

The Wildlife Society (Certified Wildlife Biologist since 2000), Ecological Society of America, American Society of Mammalogists, U.S. International Association of Landscape Ecology, Society for Conservation Biology