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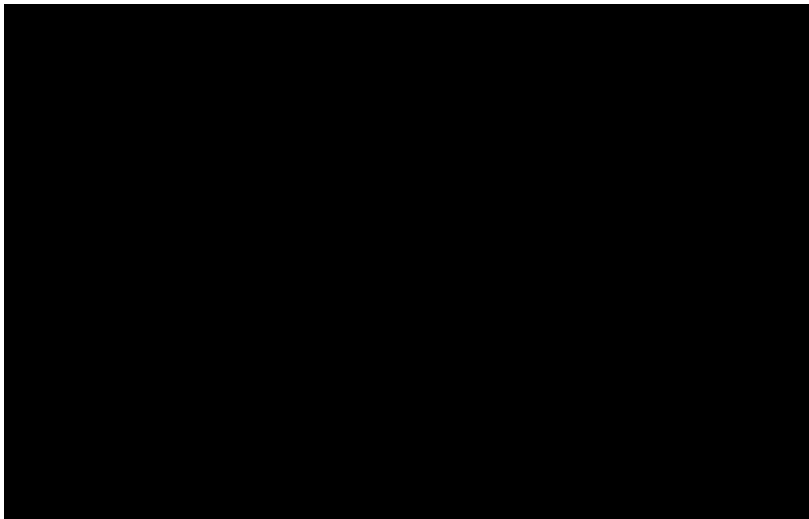
Russell Bacon  
Forest Supervisor  
Thunder Basin Plan Amendment Comments  
Thunder Basin National Grassland Supervisor's Office  
2468 Jackson Street  
Laramie, WY 82070

Re: Thunder Basin Plan Amendment Comments (EIS No. 20190250), sent via: <https://cara.ecosystem-management.org/Public/CommentInput?Project=55479>

Dear Mr. Bacon,

As an experts on black-footed ferret (*Mustela nigripes*) recovery, I respectfully submit this letter regarding the Thunder Basin National Grassland 2020 Plan Amendment Draft Environmental Impact Statement (DEIS), in response to notice 84 Federal Register 54899. Of primary concern in the three proposed action alternatives (e.g., proposed action, grassland-wide, and prairie dog emphasis) is the elimination of the Management Area 3.63 – Black-footed Ferret Reintroduction Habitat (MA 3.63) and associated conservation measures for black-tailed prairie dogs (*Cynomys ludovicianus*). These proposed action alternatives effectively reduce the prairie dog acreage needed to sustain a viable population of black-footed ferrets on this grassland. Black-footed ferret recovery relies on the restoration and conservation of large, connected prairie dog populations and Thunder Basin National Grassland has the biological potential to substantially advance recovery of this endangered species. In this letter I outline the ecological requirements for establishing and maintaining a black-footed ferret population that contributes to national delisting criteria.

Sincerely,



The proposed action alternatives (e.g., proposed action, grassland-wide, and prairie dog emphasis) in the Thunder Basin National Grassland 2020 Plan Amendment Draft Environmental Impact Statement (DEIS) fail to provide the ecological conditions to contribute to the recovery of the endangered black-footed ferret (*Mustela nigripes*).

As a Federal agency, the Forest Service has a responsibility to contribute to the recovery of threatened and endangered species according to section 7 of the Endangered Species Act. Building on the foundation of the National Forest Management Act, the 2012 Planning Ruler also states that ecosystem plan components, and when necessary, species-specific plan components must be in place to provide the ecological conditions to contribute to the recovery of federally listed threatened and endangered species (36 CFR 219.9(2)(b)). (DEIS, page 8.)

All proposed action alternatives eliminate the Management Area 3.63 (MA 3.63), call for prairie dog density control and prairie dog colony acreage limits, fail to include sylvatic plague mitigation in prairie dogs, and overall, are not consistent with black-footed ferret recovery needs. I outline below the ecological requirements for establishing and maintaining a black-footed ferret population that contributes to national delisting criteria (U.S. Fish and Wildlife Service 2013).

#### Black-footed Ferret Population Trends

The black-footed ferret is one of North America's most endangered mammals (Jachowski 2014, U.S. Fish and Wildlife Service 2017). It was listed as endangered throughout its range on March 11, 1967 (32 FR 4001), listed again on June 2, 1970 (35 FR 8491), and was "grandfathered" under the Endangered Species Act of 1973, as amended (ESA; 16 U.S.C. 1531 *et seq.*). The species endangered status is due, in large part, to its dependence on prairie dogs (*Cynomys spp.*) for survival (Hillman 1968; Biggins et al. 2006a; Biggins and Eads 2017). Prairie dog numbers and occupied habitat were reduced by habitat loss (i.e., conversion of native prairie to cropland), poisoning, and disease from the late 1800s to about 1960 (Biggins et al. 2006a); black-footed ferret populations subsequently declined (Biggins 2006) to a low point of 10 known individuals in the spring of 1985 (Biggins et al. 2006). Captive breeding, habitat protection, disease mitigation, reintroductions, and partnerships among federal, state, tribal and non-governmental agencies twice saved the black-footed ferret from the brink of extinction in the 20<sup>th</sup> century (U.S. Fish and Wildlife Service 2013, 2017). Continued efforts to establish and maintain populations of the endangered black-footed ferret, however, is critical to the species survival and its removal from the federal list of endangered and threatened wildlife. Delisting criteria (U.S. Fish and Wildlife Service 2013) are to:

Establish free-ranging black-footed ferrets totaling at least 3,000 breeding adults, in 30 or more populations, with at least one population in each of at least nine of 12 States within the historical range of the species, with no fewer than 30 breeding adults in any population, and at least 10 populations with 100 or more breeding adults, and at least five populations within colonies of Gunnison's and white-tailed prairie dogs.

To date, after nearly 30 years of reintroductions, the black-footed ferret recovery program has reached just 5.6% of this delisting goal. According to the U.S. Fish and Wildlife Service (J. Hughes, personal communication) there were an estimated 170 breeding adult black-footed ferrets in the wild (~340 total individuals) at 14 active reintroduction sites in 2019. Of these sites, only one has 30 breeding adults and zero sites have 100 breeding adults. A decade ago, the recovery program was nearly three times (14.9%) closer to reaching the black-footed ferret delisting criteria. In 2009, there were approximately 448 breeding adult black-footed ferrets at 13 reintroduction sites, and four of those populations had 30 breeding adults and one site had 100 breeding adults. Progress toward recovery has regressed in the past 10 years and this is very concerning. Sylvatic plague and a lack of suitably-sized prairie dog habitat (both

complex size and prairie dog density) are key factors limiting recovery efforts today (Cully and Williams 2001; Gage and Kosoy 2006; Jachowski and Lockhart 2009, Abbott and Rocke 2012; U.S. Fish and Wildlife Service 2013). Both factors can be addressed with adequate investment of resources, innovative solutions, and leadership by site managers.

### Ecological Requirements of Black-footed Ferrets

Black-footed ferret recovery relies on the restoration and conservation of large, connected prairie dog populations (Jachowski et al. 2011; U.S. Fish and Wildlife Service 2013). The minimum 1,500-acres of black-tailed prairie dogs suggested by the U.S. Fish and Wildlife Service in their 2013 Black-footed Ferret Programmatic Safe Harbor Agreement (64 FR 32717) for a site to be considered for a reintroduction is well below the acreage needed to host a black-footed ferret population that counts toward delisting criteria. This acreage number even defies the science outlined in the U.S. Fish and Wildlife Service's 2013 Black-footed Ferret Recovery Plan that 4,500 acres of black-tailed prairie dogs are needed to support 30 breeding adults black-footed ferrets and more than 15,000 acres are needed to support at least 100 breeding adults (U.S. Fish and Wildlife Service 2013). In the 2013 Black-footed Ferret Recovery Plan, the U.S. Fish and Wildlife Service suggested:

...that 225 ac (90 ha) of black-tailed prairie dog habitat per female ferret, or 3 times the 75 ac (30 ha) estimated by Biggins et al. (2006a) and Livieri and Anderson (2012), is appropriate based upon the Conata Basin data. (Recovery Plan, page 73.)

Furthermore, the 1,500-acre minimum has never supported even close to 30 breeding adult black-footed ferrets in the species' history. Under the more realistic stocking rates (225 acres/adult female), relied on in the 2013 Recovery Plan (U.S. Fish and Wildlife Service 2013), 1,500 acres of black-tailed prairie dogs results in no more than 7 female territories. While the adult sex ratio (2 females: 1 male) for black-footed ferrets suggests such a population would also contain at least 3 males, the 10 adults are far from the 30-breeding adult goal. The 2013 Recovery Plan clearly describes the current science, although more recent analysis of the data points to even more conservative estimates of black-footed ferret carrying capacity. All lines of evidence reject the notion that a 1,500-acre site could support 30 breeding adults over any length of time, thus failing to meet the criteria of providing habitat for the persistence of species for which the U.S. Forest Service has a federally mandated responsibility in recovery assistance.

For example, since black-footed ferrets were first reintroduced in 1991, only black-tailed prairie dog complexes of 6,000 acres and greater have hosted 30 breeding adults and reintroduction sites with over 30,000 black-tailed prairie dog acres or more of have supported 100 breeding adults. Today, in the presence of widespread sylvatic plague, the only site supporting 30 breeding adults is 13,500 acres (i.e., Conata Basin-Badlands, South Dakota) and no reintroduction site currently supports 100 breeding adults. In the case of the Conata Basin-Badlands, South Dakota black-footed population, where sylvatic plague is present yet managed for annually, one adult female occupied an average of 496 acres (range: 305-715) of black-tailed prairie dogs during 2013-2018 (Livieri 2014, 2015, 2016, 2017, 2018, 2019). This suggests a range of 20,495 (305 acres x 67 adult female ferrets) to 47,931 acres (714 acres x 67 adult female ferrets) with an average of 33,323 acres of occupied prairie dog colony area is likely needed to support 100 breeding adult black-footed ferrets.

A fundamental shortcoming in reintroduction strategies is releasing black-footed ferrets on increasingly smaller prairie dog complexes that do not have the potential to host a minimum of 30, let alone, 100 breeding adults. The basic biological habitat requirements of the species cannot be ignored in deference to political or social conflicts fearing too many prairie dogs on the landscape if there is to be any real expectation for black-footed ferret recovery progress. Restoration of adequate prairie dog habitat to sustain black-footed ferrets will require "more time, patience, and commitment by Federal, State, local,

Tribal, and private land managers than has occurred to date.” (U.S. Fish and Wildlife Service 2013). Recovery of black-footed ferrets is biologically achievable if provide the species with the following critical components:

- Large prairie dog complexes with naturally occurring prairie dog densities. In a systematic review of reintroduction attempts up to 2009 and the attributes contributing to establishment of a population with 30 breeding adults, Jachowski et al. (2011) found that the only significant predictors of success were prairie dog biomass and prairie dog complex size (a complex is an aggregation of prairie dog colonies in close proximity; Biggins et al. 1993). The State Wildlife Action Plan for Wyoming (Wyoming Game and Fish Department 2017) also asserts “... the size of prairie dog colonies and density of burrows are the most important factors in the success of reintroduction sites”. To sustain 100 breeding adult black-footed ferrets, black-tailed prairie dog complexes must be at least 15,000 acres – yet preferably 20,495 to 47,931 acres – where no one colony in complex is more than 0.9 miles from another colony in that same complex (1.5 km rule; Forrest et al. 1985; Biggins et al. 1993; Biggins et al. 2006b; and Eads et al. 2012).

Black-footed ferrets require prairie dog colony complexes with high prairie dog densities and high prairie dog burrow densities (Biggins et al. 2006b; Eads et al. 2011; Livieri and Anderson 2012; Eads et al. 2012; U.S. Fish and Wildlife Service 2013). Studies in Montana and South Dakota have found that that “high” may range from 101 to 168 prairie dogs per acre and from 207 to 528 active burrows per acre (Biggins et al. 2006b; Livieri and Anderson 2012; Eads et al. 2012; U.S. Fish and Wildlife Service 2013).

There is no scientific basis for what the U.S. Forest Service is calling “density control”. As noted above, black-footed ferrets fare best when prairie dog densities are high and not artificially depressed.

- Annual sylvatic plague mitigation. The key to sustaining black-footed ferret populations is prophylactic, annual sylvatic plague mitigation in both black-footed ferrets and their prairie dog prey (U.S. Fish and Wildlife Service 2013; Biggins and Eads 2017). Sylvatic plague is imminent, pervasive, and we know little about when or where it will erupt. We do know, however, that we need a suite of tools to prevent plague from occurring or to stop it in its tracks. There is an effective-for-a-lifetime, injectable plague vaccine for black-footed ferrets. The most reliable tool to prevent and curtail plague in prairie dog populations is deltamethrin (tradename DeltaDust), which when deployed into prairie dog burrows reduces flea populations – the vector of plague. Dusting burrows with deltamethrin has proven effective in suppressing the fleas that transmit plague, which is why it is one of the most effective tools for conserving black-footed ferret and prairie dog populations (Seery et al. 2003; Biggins et al. 2010; Matchett et al. 2010). In addition, it is the only plague mitigation tool currently available with no documented negative impacts to black-footed ferrets and their prairie dog prey.

Two additional plague mitigating tools for prairie dogs that are being tested and evaluated include sylvatic plague vaccine baits and fipronil (in grain and bait form), the systemic flea control product for prairie dogs. Although progress is being made, the jury is out on the latter two tools until we are assured that they work well at the scale needed to recover black-footed ferrets and they are safe for wildlife.

- Protection of prairie dogs within the complexes from poisoning and shooting. Recreational shooting and targeted poisoning of prairie dogs negatively impacts black-footed ferret populations by reducing abundance and density (Knowles 1988) of their primary prey (Pauli

2005; Reeve and Vosburgh 2006; U.S. Fish and Wildlife Service 2013). These lethal impacts are amplified when coupled with sylvatic plague.

#### Importance of Thunder Basin National Grassland for black-footed ferret recovery

Federal lands within the Thunder Basin National Grassland (TBNG) are essential to recovery of the black-footed ferret. As stated by the U.S. Fish and Wildlife Service, “it is one of the few grassland properties in North America capable of sustaining a black-footed ferret population that could significantly advance the species’ recovery.”<sup>1,2</sup> Consequently, the MA 3.63 should be maintained to the maximum extent possible to foster recovery and uphold the U.S. Forest Service’s obligations under section 7(a)(1) of the ESA (16 U.S.C. §§ 1536(a)(1) *et seq.*) and the National Forest Management Act of 1976, as amended (16 U.S.C. § § 1600 *et seq.*). Provisions must be made in black-tailed prairie dog management plans to include a large prairie dog complexes to support self-sustaining black-footed ferret populations.

With so few remaining prairie dog populations of suitable size required to successfully restore a black-footed ferret population, the TBNG represents a unique opportunity to contribute to the recovery of this species. As written in the current TBNG Land and Resource Management Plan and outlined in the “no action alternative”, the MA 3.63 can be managed to maintain at least 18,000 acres of prairie dog colonies. This is a great place to start to set the stage for black-footed ferret reintroduction. However, the amendment and action alternatives at outlined in the DEIS strip key protections and sufficient habitat that would preclude supporting a viable population of black-footed ferrets.

#### Recommendations

Modify the no-action alternative to include:

1. Retain the MA 3.63 as Black-footed Ferret Reintroduction Habitat.
2. Maintain the existing 1-mile buffer zone around residences and establish a ¼ mile buffer zone within MA 3.63 adjacent to private land.
3. Restore, maintain, and protect from lethal control (except in the buffer zone) a minimum of 18,000 acres of active prairie dog colonies within MA 3.63 with the goal of increasing these acres for the reintroduction of black-footed ferrets. For black-footed ferret recovery, the most recent science suggests 20,495 to 47,931 acres of active prairie dog colonies are needed to host 100 breeding adults. These prairie dog acres may be distributed in several subcomplexes that each follow the 1.5-km rule.
4. Create a sylvatic plague mitigation Standard for annual plague mitigation to occur on prairie dog colonies within MA 3.63.

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<sup>1</sup> Letter from Mr. J. Michael Lockhart (U.S. Fish and Wildlife Service, Black-footed Ferret Recovery Coordinator) to Mr. Bob Luce (Black-tailed Prairie Dog Interstate Coordinator). March 16, 2001.

<sup>2</sup> Letter from Ms. Noreen Walsh (Regional Director, U.S. Fish and Wildlife Service, Mountain-Prairie Region) to Mr. Brian Ferebee (Regional Forester, U.S. Forest Service, Rocky Mountain Region). May 30, 2017.

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## EDUCATION

- 2012                      Ph.D., Fisheries and Wildlife Sciences. University of Missouri, Columbia, Missouri.
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- 1992 – 1997          *Volunteer Research Technician*, Patuxent Wildlife Research Center, U.S. Geological Survey, Laurel, Maryland.

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40. Azad, S., T. Wactor, and **D. Jachowski**. 2017. Demographic trends of a harvested black bear population in northwestern South Carolina. *Ursus* 28:56-65.
39. Azad, S., T. Wactor, and **D. Jachowski**. 2017. Relationship of acorn mast production to black bear population growth rates and human-bear interactions in northwestern South Carolina. *Southeastern Naturalist* 16:235-251.
38. Wilson, S., R. Colquhoun, A. Klink, T. Lanini, S. Riggs, B. Simpson, A. Williams and **D.S. Jachowski**. 2016. Recent detections of eastern spotted skunks (*Spilogale putorius*) in South Carolina. *Southeastern Naturalist* 15:269-274.
37. **Jachowski, D.S.**, C.T. Rota, C.A. Dobony, W.M. Ford and J.W. Edwards. 2016. Seeing the forest through the trees: Multi-scale summer roost-site selection by Indiana bats at the northern edge of their range. *PLoS ONE* 11(3):e0150011.
36. **Jachowski, D.S.**, and N.J. Singh. 2015. Toward a mechanistic understanding of animal migration: Incorporating physiological measurements in studies of animal movement. *Conservation Physiology* 3:cov035.
35. **Jachowski, D.S.**, B.E. Washburn, and J.J. Millspaugh. 2015. Revisiting the importance of accounting for seasonal and diel rhythms in fecal stress hormone studies. *Wildlife Society Bulletin* 39:738-745.
34. **Jachowski, D.S.**, T. Katzner, J.L. Rodrigue, and W.M. Ford. 2015. Monitoring landscape-level distribution and migration phenology of raptors using a volunteer camera trap network. *Wildlife Society Bulletin* 39:555-563.
33. **Jachowski, D.S.**, S. McCorquodale, B.E. Washburn, and J.J. Millspaugh. 2015. Human disturbances and the physiological response of elk in Eastern Washington. *Wildlife Biology in Practice* 11:12-25.
32. Diggins, C.A., **D.S. Jachowski**, J. Martin, and W.M. Ford. 2015. Incidental captures of eastern spotted skunk in a high-elevation spruce forest in Virginia. *Northeastern Naturalist* 22:N6-N10.
31. **Jachowski, D.S.**, D.C. Kesler, D.A. Steen, and J.R. Walters. 2015. Rethinking baselines in endangered species recovery. *Journal of Wildlife Management* 79:3-9.
30. **Jachowski, D.S.**, C.A. Dobony, L.S. Coleman, W.M. Ford, E.R. Britzke, and J.L. Rodrigue. 2014. Disease and community structure: white-nose syndrome alters spatial and temporal niche partitioning in sympatric bat species. *Diversity and Distributions* 20:1002-1015.
29. **Jachowski, D.S.**, C.M.B. Jachowski, and W.M. Ford. 2014. Is white-nose syndrome causing insectivory release and altering ecosystem function in the eastern US? *Bat Research News* 55:21-24.
28. **Jachowski, D.S.**, T.W. Mong, B.E. Washburn, J.H. Schulz, and J.J. Millspaugh. 2014. Evaluating the effect of short-term capture and handling on fecal glucocorticoid metabolite levels in mourning doves. *Wildlife Biology in Practice* 10:39-50.
27. **Jachowski, D.S.**, J.B. Johnson, C.A. Dobony, J.W. Edwards, and W.M. Ford. 2014. Space use and resource selection by foraging Indiana bats at the northern edge of their distribution. *Endangered Species Research* 24:149-157.
26. Ayers, C.R., J.L. Belant, D.A. Eads, **D.S. Jachowski** and J.J. Millspaugh. 2014. Investigation of factors effecting black-footed ferret litter size. *Western North American Naturalist* 74:108-115.
25. **Jachowski, D.S.**, R. Slotow, and J.J. Millspaugh. 2014. Good virtual fences make good neighbors: Opportunities for conservation. *Animal Conservation* 17:187-196.
24. **Jachowski, D.S.**, R. Slotow, and J.J. Millspaugh. 2013. Corridor use and streaking behavior

- by African elephants in relation to physiological state. *Biological Conservation* 167: 276-282.
23. **Jachowski, D.S.**, R. Slotow and J.J. Millspaugh. 2013. Delayed physiological acclimatization by African elephants following reintroduction. *Animal Conservation* 16:575-583.
22. **Jachowski, D.S.**, R. Slotow, R.A. Montgomery and J.J. Millspaugh. 2013. Unravelling complex associations between physiological state and movement in African elephants. *Functional Ecology* 27:1166-1175.
21. Steen, D.A., and **D.S. Jachowski**. 2013. Expanding shifting baseline syndrome to accommodate increasing abundances. *Restoration Ecology* 21:527-529.
20. **Jachowski, D.S.**, R. Slotow and J.J. Millspaugh. 2012. Physiological stress and refuge behavior by African elephants. *PLoS ONE* 7:e31818.
19. **Jachowski, D.S.**, N. Brown, M. Wehtje, D.W. Tripp, J.J. Millspaugh and M.E. Gompper. 2012. Mitigating plague risk in Utah prairie dogs: Evaluation of a systemic flea control product. *Wildlife Society Bulletin* 36:167-175.
18. Eads, D.A., **D.S. Jachowski**, D.E. Biggins, T.M. Livieri, M.R. Matchett and J.J. Millspaugh. 2012. Resource selection models are useful in predicting distributions of black-footed ferrets in prairie dog colonies. *Western North American Naturalist* 72:206-215.
17. Eads, D.A., **D.S. Jachowski**, J.J. Millspaugh and D.E. Biggins. 2012. Importance of lunar and temporal conditions for spotlight surveys of adult black-footed ferrets. *Western North American Naturalist* 72:179-190.
16. **Jachowski, D.S.**, and J.A. Hubbart. 2012. Seasonal variation in pelage coloration of California ground squirrels (*Otospermophilus beecheyi*) in areas of differing land use. *Journal of Biology and Life Sciences* 3:13-19.
15. **Jachowski, D.S.** 2011. The sentimental ecologist. *Frontiers in Ecology and the Environment* 9:575-576.
14. **Jachowski, D.S.**, R. Gitzen, M.B. Grenier, B. Holmes and J.J. Millspaugh. 2011. The importance of thinking big: Large-scale prey conservation drives black-footed ferret reintroduction success. *Biological Conservation* 14:1560-1566.
13. Eads, D.A., J.J. Millspaugh, D.E. Biggins, T.M. Livieri and **D.S. Jachowski**. 2011. Post-breeding resource selection by adult black-footed ferrets in Conata Basin, South Dakota. *Journal of Mammalogy* 92:760-770.
12. **Jachowski, D.S.**, J.J. Millspaugh, D.E. Biggins, T.L. Livieri, M.R. Matchett and C.D. Rittenhouse. 2011. Resource selection by black-footed ferrets in South Dakota and Montana. *Natural Areas Journal* 31:218-225.
11. Eads, D.A., D.E. Biggins, J.J. Millspaugh, **D.S. Jachowski** and T.M. Livieri. 2011. Evaluation of a black-footed ferret resource utilization function model. *Journal of Wildlife Management* 75:1155-1163.
10. **Jachowski, D.S.**, S. Skipper and M.E. Gompper. 2011. Field evaluation of Imidacloprid as a systemic approach to flea control in black-tailed prairie dogs (*Cynomys ludovicianus*). *Journal of Vector Ecology* 36:101-107.
9. Hubbart, J.A., **D.S. Jachowski** and D.A. Eads. 2011. Seasonal and among-site variation in the occurrence and abundance of fleas on California ground squirrels (*Otospermophilus beecheyi*). *Journal of Vector Ecology* 36:117-123.
8. **Jachowski, D.S.**, J.J. Millspaugh, D.E. Biggins, T.L. Livieri and M.R. Matchett. 2010. Home range size and the spatial organization of black-footed ferrets in South Dakota. *Wildlife Biology* 16:66-76.
7. Eads, D.A., D.E. Biggins, **D.S. Jachowski**, T.M. Livieri, J.J. Millspaugh and M. Forsberg. 2010. Morning ambush attacks by black-footed ferrets on emerging prairie dogs. *Ethology, Ecology and Evolution* 22:345-352.
6. **Jachowski, D.S.** and J.M. Lockhart. 2009. Reintroducing black-footed ferrets to the Great Plains of North America. *Small Carnivore Conservation* 41:58-64.

5. **Jachowski, D.S.** and D.C. Kesler. 2009. Allowing extinction: Should we let species go? *Trends in Ecology and Evolution* 24:180.
4. Millspaugh, J.J., R.A. Gitzen, D.S. Licht, S. Amelon, T.W. Bonnot, **D.S. Jachowski**, D. T. Jones-Farrand, B.J. Keller, C.P. McGowan, M.S. Pruett, C.D. Rittenhouse and K.M. Suedkamp Wells. 2008. Effects of culling on bison demographics in Wind Cave National Park, South Dakota. *Natural Areas Journal* 28:240-250.
3. **Jachowski, D.S.**, J.J. Millspaugh, D.E. Biggins, T.L. Livieri and M.R. Matchett. 2008. Implications of black-tailed prairie dog spatial dynamics on black-footed ferrets. *Natural Areas Journal* 28:14-25.
2. **Jachowski, D.S.** 2007. Notes on black-footed ferret detectability and behavior. *The Prairie Naturalist* 39:97-102.
1. **Jachowski, D.S.** and C. Pizarra. 2005. Introducing an innovative semi-captive environment for the Philippine tarsier (*Tarsius syrichta*). *Zoo Biology* 24:101-109.

*In prep/review/revision*

10. Harris, S.N., E.A. Flaherty, T.J. Doonan, E.L. Hewett Ragheb, and **D.S. Jachowski**. *In prep.* Dietary composition of the Florida spotted skunk (*Spilogale putorius ambarvalis*) in a dry prairie ecosystem. *Southeastern Naturalist*.
9. Harris, S.N., E.A. Flaherty, T.J. Doonan, E.L. Hewett Ragheb, and **D.S. Jachowski**. *In prep.* Florida spotted skunk (*Spilogale putorius ambarvalis*) density and survival in a dry prairie ecosystem. *Journal of Mammalogy*.
8. Sirajuddin, P., S.C. Loeb, E.R. Britzke, and **D.S. Jachowski**. *In review.* Torpor patterns of tri-colored bats (*Perimyotis subflavus*) in white-nose syndrome-affected and non-affected hibernacula in the southeastern U.S. *Conservation Physiology*.
7. Butler, A., K. Bly, H. Harris, B. Inman, A. Moehrensclager, D. Schwalm, and **D. Jachowski**. *In review.* Life on the edge: Habitat fragmentation limits recovery of a reintroduced carnivore. *Animal Conservation*.
6. **Jachowski, D.S.**, L. Gigliotti, and S. Harris. *In review.* Identifying mesocarnivore release in multi-carnivore systems: a review of evidence from North America. *Mammal Review*.
5. Gigliotti, L.C., R. Slotow, L.T.B. Hunter, J. Fattebert, C. Sholto-Douglas, and **D.S. Jachowski**. *In review.* Habitat complexity and duration of predation risk influence mesopredator survival in a multi-predator system. *Journal of Applied Ecology*.
4. Bombaci, S.P., M.J. St. Germain, W.M. Ford, S.C. Loeb, R.E. Russell, C.A. Dobony, and **D.S. Jachowski**. *In revision.* Pathogen-mediated competition explains remnant bat community responses to white-nose syndrome. *Global Change Biology*.
3. McMillan, N.A., K.E. Kunkel, D.L. Hagan and **D.S. Jachowski**. *In revision.* Implementing measures of rangeland health to assess large herbivore management strategies in the Northern Great Plains. *Natural Areas Journal*.
2. Froehly, J.L., N.R. Beane, D.E. Evans, K.E. Cagle, and **D.S. Jachowski**. *In revision.* Using multi-scale behavioral investigations to inform wild pig (*Sus scrofa*) population management. *PLoS ONE*.
1. Butler, A., K. Bly, H. Harris, B. Inman, A. Moehrensclager, D. Schwalm, and **D. Jachowski**. *In revision.* Home range size and resource utilization by swift fox in northeastern Montana. *Journal of Mammalogy*.

Journal articles (not peer-reviewed)

4. Hayward, M.W., **D.S. Jachowski**, C. Shuttleworth, J. Linnell, B.L. Allen, A.S. Griffin, R.A. Montgomery, A. Caravaggi, F.J. Weise, A. Moehrensclager. 2019. Rewilding needs to clarify the role of management of invasive species. *Science eLetter* (<https://science.sciencemag.org/content/364/6438/eaav5570/tab-e-letters>)
3. **D.S. Jachowski**, S.P. Bombaci, A. Caravaggi, A. Chalmers, S. Clulow, A.S. Griffin, M.W.

Hayward, M. Heurich, J.D.C. Linnell, K.A. Marnewick, A. Moehrenschrager, R.A. Montgomery, C. Suttleworth, M.J. Somers, F.J. Weise. 2019. By trying to be everything, rewinding risks meaning nothing. *Science eLetter* (<https://science.sciencemag.org/content/364/6438/eaav5570/tab-e-letters>)

2. **Jachowski, D.S.** 2012. The Amboseli elephants: a long-term perspective on a long-lived mammal (Moss, C.J., H. Croze, and P.C. Lee, eds.). *Journal of Mammalogy* 93: 294-295.
1. Gompper, M.E., H.M. Hackett, **D.S. Jachowski**, R.J. Monello and N. Olifiers. 2006. Large carnivores and the conservation of biodiversity (Ray, J.C., Redford, K.H., Steneck, R.S. and Berger, J. eds.). *Animal Conservation* 9:355.

#### Book chapters

5. **Jachowski, D.S.**, A. Edelman, and B. Sasse. *In press*. Eastern spotted skunk. *Wild Furbearer Management and Conservation*. Wildlife Ecology Institute, Helena, MT.
4. Gitzen, R.A., B.J. Keller, M.A. Miller, S.M. Goetz, D. Steen, **D.S. Jachowski**, J. Godwin, and J.J. Millspaugh. 2016. Effective and purposeful monitoring of species reintroductions. *Reintroduction of Fish and Wildlife Populations*. University of California Press, Berkeley, CA.
3. **Jachowski, D.S.**, S. Bremner-Harrison, D.A. Steen and K. Aarestrup. 2016. Accounting for potential physiological, behavioral and community-level responses to reintroduction. *Reintroduction of Fish and Wildlife Populations*. University of California Press, Berkeley, CA.
2. **Jachowski, D.S.**, J.J. Millspaugh, P.L. Angermeier and R. Slotow. 2016. An introduction to animal reintroduction in the Anthropocene. *Reintroduction of Fish and Wildlife Populations*. University of California Press, Berkeley, CA.
1. **Jachowski, D.S.**, J.J. Millspaugh, P.L. Angermeier and R. Slotow. 2016. The future of animal reintroduction. *Reintroduction of Fish and Wildlife Populations*. University of California Press, Berkeley, CA.

#### Professional reports

9. Froehly, J. and **D.S. Jachowski**. 2018. Feral pig movement and dietary analysis on Fort Hood. Final report submitted to U.S. Army.
8. Van Neste, K., S. Loeb and **D.S. Jachowski**. 2017. Evaluating bat community structure post-WNS in Chickamauga and Chattanooga National Military Park. Final report submitted to National Park Service.
7. Gompper, M. and **D.S. Jachowski**. 2016. *Spilogale putorius*. The IUCN Red List of Threatened Species 2016: e.T41636A45211474.
6. **Jachowski, D.S.** and J.J. Millspaugh. 2013. Evaluation of a systemic flea control insecticide in prairie dogs. Report submitted to U.S. Fish and Wildlife Service, Colorado Ecological Services Office, Grand Junction, CO.
5. **Jachowski, D.S.** 2010. Systemic flea control evaluations in black-tailed prairie dogs at the Rocky Mountain Arsenal National Wildlife Refuge, Colorado. Report submitted to U.S. Fish and Wildlife Service, Denver, CO.
4. **Jachowski, D.S.** 2010. Systemic flea control evaluations on Utah prairie dogs. Report submitted to U.S. Fish and Wildlife Service, Utah Ecological Services Office, Salt Lake City, UT.
3. **Jachowski, D.S.** 2008. Guidelines for the translocation of black-footed ferrets. Report submitted to U.S. Fish and Wildlife Service, South Dakota Ecological Services Office, Pierre, SD.
2. Millspaugh, J., S. Amelon, T. Bonnot, D. T. Farrand, R. Gitzen, **D. Jachowski**, B. Keller, C. McGowan, S. Pruett, C. Rittenhouse and K. Suedkamp Wells. 2005. Natural herd demographics and effects of population control strategies in National Park Service bison

(*Bison bison*) and elk (*Cervus elaphus*) herds. Report submitted to the National Park Service, Keystone, SD. 192 pages.

1. **Jachowski, D.S.** 1991. Social behavior of the poison dart frog, *Dendrobates histrionicus*, in captivity. Report submitted to the National Aquarium in Baltimore, MD.

Popular articles (I also supervise 2 research and education related blog sites and am a contributing author for the wildlife blog [www.LivingAlongsideWildlife.com](http://www.LivingAlongsideWildlife.com))

3. **Jachowski, D.S.** 2012. UL Bend. *Camas: The Nature of the West*, Summer edition:16-21.
2. **Jachowski, D.S.** 2011. An era of restoration: What elk could mean to Missouri. *Missouri Wildlife* 72(5):6-7.
1. **Jachowski, D.S.** 2007. Black-footed ferrets: Fascinating since childhood. *U.S. Fish and Wildlife Service: Refuge Update* 4(1):16.

## TEACHING EXPERIENCE

*Co-Instructor.* Course: Wildlife Management Techniques, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (August – December 2019).

*Instructor.* Course: Carnivore Coexistence, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (August – December 2018).

*Instructor.* Course: Quantitative Ecology, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (January – May 2016, 2017, 2018).

*Instructor.* Course: Carnivore Ecology (graduate), Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (August – December 2017).

*Instructor.* Course: Carnivore Ecology (undergraduate), Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (January – May and August – December 2017, 2018, 2019).

*Instructor and Director.* Course: Montana Summer Field Program, Department of Forestry and Environmental Conservation, Clemson University, Roundup, Montana (June 2 – 22, 2016, 2017, 2018, 2019).

*Instructor.* Course: Restoration of Fish and Wildlife Populations, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (August – December 2015, 2016).

*Instructor.* Course: Camera Traps in Animal Ecology, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (January – May and August – December 2015, 2016, 2017, 2018, 2019).

*Instructor.* Course: Turkey Ecology, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (January – May 2017).

*Instructor.* Course: Prairie Ecology, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (January – May and August - December 2015, 2016, 2017, 2018, 2019).

*Co-instructor.* Course: Wildlife Management, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina (August – December 2014).

*Instructor.* Course: Wildlife Biology, Department of Fish and Wildlife Conservation, Virginia Polytechnic Institute and State University, Blacksburg, Virginia (January – May 2013).

*Instructor.* Course: Conservation of Biological Diversity, Department of Fish and Wildlife Conservation, Virginia Polytechnic Institute and State University, Blacksburg, Virginia (August – December 2012).

*Instructor.* Course: Wildlife Techniques, Department of Fisheries and Wildlife Sciences, University of Missouri, Columbia, Missouri (August – December 2008).

*Co-instructor.* Course: National Scholars Grand Canyon National Park Trip. Grand Canyon,

Arizona (May 10-26, 2016).

*Guest lecturer.* Course: The Values of National Parks and Protected Areas: Preparatory Seminar for the National Scholars Alaska Parks Trip, Department of Parks, Recreation and Tourism, Clemson University, Clemson, South Carolina. Title: The Importance of Parks in Preserving Biodiversity (March 2018).

*Guest lecturer.* Course: Past, Present and Future of the California grizzly bear, University of California, Santa Barbara, California. Title: Defining the reintroduction landscape (January 2017).

*Guest lecturer.* Course: Wildlife Biology, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina. Title: Wild Again: The struggle to save the black-footed ferret (November 2016).

*Guest lecturer.* Course: The Values of National Parks, Department of Parks, Recreation, and Tourism Management, Clemson University, Clemson, South Carolina. Title: The importance of parks in preserving biodiversity (January 2016).

*Guest lecturer.* Course: Introduction to Environmental and Natural Resources, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina. Title: Careers in wildlife management (September 2015, 2016).

*Guest lecturer.* Course: Forest Mensuration, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina. Title: Camera traps for wildlife research and monitoring (March 2015).

*Guest lecturer.* Course: Non-game Wildlife Management, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina. Title: Whole-animal Conservation: Managing African elephants in southern Africa (February 2015).

*Guest lecturer.* Course: Endangered Species Management, Department of Fisheries and Wildlife Conservation, Virginia Tech, Blacksburg, Virginia. Title: Progress in conserving species under the Endangered Species Act (September 2013).

*Guest lecturer.* Course: Population Dynamics, Department of Fisheries and Wildlife Sciences, University of Missouri, Columbia, Missouri. Title: Harvest models for assessing the effects of black-footed ferret translocation on donor sites (April 2007, 2008, 2009, 2010, 2011, and 2012).

*Guest lecturer.* Course: Fisheries and Wildlife Colloquium, Department of Fisheries and Wildlife Sciences, University of Missouri, Columbia, Missouri. Title: Reintroducing the endangered black-footed ferret to the Great Plains of North America (September 2008).

*Guest lecturer.* Course: Conservation of Wildlife Populations, Wildlife Biology Program, University of Montana, Missoula, Montana. Title: Black-footed ferret conservation in Montana (2005).

*Guest teacher,* Corella High School (Philippines). Courses: Biology and Environmental Education (2000-2001).

*Teaching Assistant/Laboratory Instructor.* Course: Population Dynamics, Department of Fisheries and Wildlife Sciences, University of Missouri, Columbia, Missouri (January – May 2006, 2008, 2009 and 2010).

*Teaching Assistant/Laboratory Instructor.* Course: Mammalogy, Department of Fisheries and Wildlife Sciences, University of Missouri, Columbia, Missouri (January – May 2011).

#### Graduate Students Advised

Elizabeth Saldo – Master of Science, Clemson University, 2019-present.

Anna Siegfried – Master of Science, Clemson University, 2019-present.

Alex Jensen – PhD, Clemson University, 2018-present.

Sze Wing Yu – Master of Science, Clemson University, 2018-present.

Keifer Titus – PhD, Clemson University, 2018-present.

Michael Muthersbaugh – PhD, Clemson University, 2018-present.



Kyle Shute – Master of Science, Clemson University, 2018 - present.  
Blaise Newman – Master of Science, Clemson University, 2018 - present.  
Amanda Williams – Master of Science, Clemson University, 2017 - present.  
Laura Gigliotti – PhD, Clemson University, 2016 - present.  
Allison Hody – PhD, Clemson University, 2017 – 2019 (withdrawn).  
Andrew Butler – Master of Science, Clemson University, 2016 - 2019.  
Pallavi Sirajuddin – Master of Science, Clemson University, 2016 - 2018.  
Stephen Harris – Master of Science, Clemson University, 2016 - 2018.  
Katie Teets – Master of Science, Clemson University, 2016 - 2018.  
Jennifer Froehly – Master of Science, Clemson University, 2016 - 2018.  
Robin Eng – Master of Science, Clemson University, 2015 - 2018.  
Ben Neece – Master of Science, Clemson University, 2015 - 2017.  
Nic McMillan – Master of Science, Clemson University, 2015 - 2017.  
Shefali Azad – Master of Science, Clemson University, 2014 - 2016.

#### Graduate Student Committee Member

Pragati Mandloi – PhD, Clemson University, ongoing.  
Narasimha Reddy – PhD, Clemson University, ongoing.  
John Nettles – Master of Science, Clemson University, ongoing.  
Emily Thorne – PhD, Virginia Tech, ongoing.  
Sarah Kimpel – Master of Science, Clemson University, ongoing.  
Katie Krafte – PhD, Clemson University, 2019.  
Glenda Lofink – Master of Science, Clemson University, 2018.  
Jesse Wood – Master of Science, Clemson University, 2018.  
Christie Sampson – PhD, Clemson University, 2018.  
Michael Carlo – Master of Science, Clemson University, 2018.  
Jill Newman – Master of Science, Clemson University, 2017.  
Jenifer Bunty – Master of Science, Clemson University, 2015.  
James Vance – Master of Natural Resources, Virginia Tech, 2014.

#### Undergraduate Student Researchers Advised

*In addition to these independently funded scholars, I annually teach 4 small (3-10 student) undergraduate student research courses under the Clemson Creative Inquiry Program.*

Erin McDaniel – CAFLS Undergraduate Research Award, Clemson University, 2019.  
Danielle Mocker – McNair Scholar, University of Missouri, 2011.  
Brian Jochems - National Science Foundation Prism Grant, University of Missouri, 2010.

### **GRANTS**

#### Research Grants and Contracts Received

*I have obtained 38 research grants and contracts worth over \$3,784,963 as either PI or Co-PI.*

38. Schwehr Family Global Service-Learning Endowment Program Development Grant (2019). Developing global citizens in a sub-Saharan African context. (\$100,000; Co-PIs Dr. Ed Bowers, Dr. James Burns, Dr. Lori Dickes, Dr. Lauren Duffy, Dr. Wayne Friemund)
37. Nemours Wildlife Foundation (2019). Coastal mesocarnivore community ecology. (\$33,081 extension)
36. South Carolina Department of Natural Resources (2018). Variation of Chronology of Wild Turkey Gobbling in the Upstate of South Carolina. (\$45,581; Co-PI with Beth Ross)
35. American Prairie Reserve (2018). Evaluating Grassland Community Response to Bison Restoration in the Northern Great Plains. (\$45,000)
34. South Carolina Department of Natural Resources (2018). Coyote ecology and deer

- interactions in the piedmont of South Carolina. (\$497,156)
33. South Carolina Department of Natural Resources (2018). NABat monitoring in South Carolina. (\$86,247)
32. South Carolina Department of Natural Resources (2018). Doe and fawn movement and survival in the piedmont of South Carolina. (\$1,045,220)
31. Clemson University Institute for Parks (2018). Beyond borders: Determining current and future wildlife co-existence landscapes at the private-public land interface in the Northern Great Plains. (\$10,000)
30. Nemours Wildlife Foundation (2018). Coastal mesocarnivore community ecology. (\$29,100 extension)
29. North Carolina Wildlife Resources Commission (2017). Ecological studies and monitoring strategies for eastern spotted skunks in North Carolina. (\$382,699)
28. South Carolina Department of Natural Resources (2017). Roosting and foraging ecology of rare and sensitive coastal bats. (\$73,835)
27. U.S. Fish and Wildlife Service (2017). Will use of alternate winter roosts by tri-colored bats protect them from white-nose syndrome? (\$94,314)
26. Nemours Wildlife Foundation (2017). Coastal mesocarnivore community ecology. (\$11,072)
25. US Army ERDC (2017). Stomach content analysis of feral hogs. (\$47,399)
24. Montana Fish, Wildlife and Parks (2017). Swift fox habitat and dispersal on the Northern Great Plains of Montana. (\$24,649)
23. Pete and Sally Smith Foundation (2016). Eastern spotted skunk ecology in Oconee County. (\$5,000)
22. Florida Fish and Wildlife Conservation Commission (2016). Conserving Florida grasshopper sparrows by understanding predation impacts and habitat use by a common nest predator, the eastern spotted skunk, in relation to on-going prescribed fire management. (\$117,000)
21. National Research Foundation (South Africa) (2016). Incentive funding for rated researchers. (240,000 rand)
20. National Fish and Wildlife Foundation (2016). Northern Great Plains swift fox connectivity project. (\$158,206)
19. U.S. Department of Agriculture (2016). Monitoring success of Farm Bill programs in conserving avian wildlife. (\$74,579; Co-PI with Beth Ross)
18. South Carolina Department of Natural Resources (2016). Loggerhead shrike distribution and population ecology in South Carolina (\$47,628)
17. National Park Service (2016). Evaluating bat community structure post-WNS in Chickamauga and Chattanooga National Military Park. (\$37,761)
16. U.S. Fish and Wildlife Service (2015). Understanding the vulnerability of tri-colored bats to white-nose syndrome in the South: Torpor patterns and hibernacula conditions. (\$95,409) (Co-authored with Susan Loeb and Eric Britzke)
15. U.S. Fish and Wildlife Service (2015). Evaluating the effect of white-nose syndrome on long-term bat community structure and remnant bat population ecology. (\$141,940) (Co-authored with Mark Ford, Susan Loeb, Joshua Johnson, Robin Russell, and John Kilgo)
14. U.S. Forest Service (2015). Bat monitoring on Andrew Pickens Ranger District. (\$45,995)
13. South Carolina Department of Natural Resources (2015). Boating safety forums project. (\$15,072)
12. South Carolina Department of Natural Resources (2015). Distribution, population ecology, genetic relatedness and habitat associations of eastern spotted skunks in South Carolina (\$100,000)
11. South Carolina Department of Natural Resources (2014). Carolina regional acoustic bat survey research (\$47,500)
10. Virginia Department of Game and Inland Fisheries (2013). Investigation into the distribution and habitat use of eastern spotted skunks in western Virginia (\$203,275) (Co-authored with Mark Ford)

9. U.S. Fish and Wildlife Service, Ecological Service Contingency Fund (2010). For development of landscape-level plague mitigation tools (\$22,500) (co-authored with Al Pfister, U.S. Fish and Wildlife Service)
8. Utah Division of Wildlife Resources (2010). Investigations into flea ecology and plague dynamics in Utah prairie dog populations (\$17,000) (co-authored with Dr. Matthew Gompper, University of Missouri)
7. U.S. Fish and Wildlife Service, Preventing Extinction Fund (2010). For investigations into systemic flea control on Utah prairie dogs (\$67,700) (co-authored with Al Pfister, U.S. Fish and Wildlife Service)
6. U.S. Fish and Wildlife Service, Colorado Ecological Services Field Office (2010). For analysis of tools to decrease flea abundance and mitigate sylvatic plague outbreaks in prairie dogs (\$21,463) (co-authored with Joshua Millspaugh, University of Missouri)
5. U.S. Fish and Wildlife Service, Utah Ecological Services Field Office (2009). For evaluations of systemic flea control on Utah prairie dogs (\$48,800) (co-authored with Nathan Brown, Utah Division of Wildlife)
4. Utah Department of Natural Resources, Endangered Species Mitigation Fund (exigency funds) (2009). For initiation of systemic flea control evaluations on Utah prairie dogs (\$25,400) (co-authored with Nathan Brown, Utah Division of Wildlife)
3. South Dakota Department of Game, Fish and Parks, Competitive Grants Program (2006). Black-footed resource selection (\$75,000) (co-authored with Joshua Millspaugh, University of Missouri)
2. South Dakota Department of Game, Fish and Parks, Small Grants Program (2006). Black-footed ferret resource selection (\$4,800) (co-authored with Joshua Millspaugh, University of Missouri)
1. National Fish and Wildlife Foundation (2005). Black-footed ferret resource selection (\$39,060) (co-authored with Joshua Millspaugh, University of Missouri)

#### Conservation/Outreach Grants Received

2. U.S. AID Grant (2001). For the creation of local hunters meeting area, wildlife protection program, and wildlife rehabilitation center in Bohol, Philippines.
1. U.S. AID Grant (2000). For development of the Philippine Tarsier and Wildlife Sanctuary visitors center and environmental education center. Also used funds to initiate alternative livelihood development in rural communities adjacent to protected forest lands.

#### **SELECTED HONORS AND AWARDS**

- 2019 Excellence in Stewardship Award (runner-up), Clemson University
- 2019 Researcher of the Year (Junior), College of Agriculture, Forestry and Life Sciences, Clemson University.
- 2017 April Book of the Month (Wild Again), The Center for Great Plains Studies.
- 2015 Finalist for the Stubbendieck Great Plains Distinguished Book Prize.
- 2011 TransWorld Airlines Scholarship.
- 2010 U.S. Fish and Wildlife Service, 10 Years of Service Certificate of Recognition.
- 2010 Natural Areas Association Student Scholarship.
- 2008 Dorris D. and Christine M. Brown Fellowship, University of Missouri.
- 2008 U.S. Fish and Wildlife Service, STAR Award (also received in 2007, 2004 and 2003).
- 2006 Missouri Chapter of The Wildlife Society Graduate Fellowship.
- 2005 National Wildlife Refuge System Disney Centennial Scholarship.
- 2005 Conservation Biology Graduate Fellowship, University of Missouri.
- 2004 Edward K. Love Fellowship, University of Missouri.
- 2003 U.S. Fish and Wildlife Service, On-the-Spot Award.

## PROFESSIONAL SERVICE AND AFFILIATIONS

2019 - present	<i>Member</i> , Centre for Functional Biodiversity, School of Life Sciences, University of KwaZulu-Natal, Durban, South Africa
2017 – present	<i>Southeastern Section Representative and Board Member</i> , South Carolina Chapter of the Wildlife Society
2016 – present	<i>Associate Fellow</i> , Center for Great Plains Studies
2016 – present	<i>Editor</i> , Southeastern Naturalist
2015 – present	<i>Fellow</i> , Clemson University Institute for Parks
2015 – 2018	<i>Founder/ Chair</i> , Eastern Spotted Skunk Cooperative Study Group
2014 – present	<i>Creator/Director</i> , Montana Summer Field Program, Clemson University, Roundup, Montana.
2013 – present	<i>Honorary Research Fellow</i> , School of Life Sciences, University of KwaZulu-Natal, Durban, South Africa.
2000 – 2003	<i>Science Advisor</i> , Philippine Tarsier Foundation, Corella, Bohol, Philippines.

## PROFESSIONAL SOCIETY MEMBERSHIPS

The Wildlife Society, General member in addition to membership in the South Carolina Chapter, Native Peoples' Wildlife Management Working Group, Wildlife and Habitat Restoration Working Group  
IUCN/SSC Re-introduction Specialist Group

## SPECIAL ASSIGNMENTS AND ELECTED COMMITTEES

2019 – present	<i>Search Committee</i> , Department Chair for Department of Forestry and Environmental Conservation, Clemson University
2018 – present	<i>Conservation Affairs Committee</i> , South Carolina Chapter of the Wildlife Society
2017 – present	<i>Vice President for Research Faculty Research Advisory Board</i> , College of Agriculture, Forestry and Life Sciences representative (Alternate), Clemson University
2017 – 2018	<i>Research Advisory Committee</i> , College of Agriculture, Forestry and Life Sciences, Clemson University
2016 – present	<i>Graduate Fellowships and Awards Committee</i> (College representative), Clemson University
2016 – present	<i>Assessment Committee</i> , Department of Forestry and Environmental Conservation (Wildlife and Fisheries Biology representative for BS, MS, online MS, and PhD programs), Clemson University.
2016	<i>Search Committee</i> , Assistant Professor of Fisheries/Aquatic Ecology, Department of Forestry and Environmental Conservation, Clemson University, Clemson, South Carolina.
2015	<i>Search Committee</i> , Assistant Unit Leader for South Carolina Cooperative Fish and Wildlife Research Unit, U.S. Geological Survey, Clemson, South Carolina.
2012 – 2014	<i>Outreach and Honorifics Committee</i> , Department of Fish and Wildlife Conservation, Virginia Polytechnic Institute and State University.
2010	<i>Biologist</i> , served as science advisor, media liaison, and boat field operations planner for coordinated multi-agency rapid response to Deepwater Horizon oil spill in Gulf of Mexico, Dennis Pass, Louisiana.

- 2002 – 2010      *Conservation Subcommittee*, Black-footed Ferret Recovery Implementation Team.
- 2008              *Field Supervisor*, coordinated field operations for multi-agency emergency response to sylvatic plague outbreak at the Conata Basin, South Dakota.
- 2004              *Biologist*, evaluated the reported existence of remnant black-footed ferret populations in eastern Colorado.
- 2004 & 2003      *Biologist*, participated in multi-agency effort to monitor only known successful black-footed ferret populations in Conata Basin, South Dakota.
- 2004 & 2003      *Biologist*, participated in international collaborative expeditions to find black-footed ferrets in Chihuahua Desert, Janos, Mexico.
- 2002              *Instructor*, assisted in training new U.S. Peace Corps volunteers on protected area management and working and living in the Philippines.

#### INVITED REVIEWER

Journals: *Acta Chiropterologica; Acta Theriologica; Animals; Animal Behaviour; Animal Conservation; Behavioral Ecology; Biological Invasions; Conservation Physiology; Ecology and Evolution; Ecological Modelling; Ethology, Ecology and Evolution; Frontiers in Ecology and the Environment; Integrative Zoology; Global Ecology and Conservation; International Journal of Primatology; Journal of the North Carolina Academy of Science; Journal of Animal Ecology; Journal of Applied Animal Welfare Science; Journal of Biology and Life Sciences; Journal of Mammalogy; Journal of the Arkansas Academy of Sciences; Journal of Vector Ecology; Journal of Wildlife Management; Journal of Zoology; Mammal Research; PLoS ONE; Raffles Bulletin of Zoology; Restoration Ecology; Small Carnivore Conservation; Southeastern Naturalist; Trends in Ecology and Evolution; Vector-Borne and Zoonotic Diseases; Western North American Naturalist*

Books: *Biology and Conservation of Martens, Sables, and Fishers: A New Synthesis; Conservation Science: Balancing the Needs of People and Nature; Mammals of Virginia*

Grants: *University of Missouri Research Board; U.S. Department of Defense - Strategic Environmental Research and Development Program (declined)*

Meeting contributed papers: *23<sup>rd</sup> Annual Meeting of The Wildlife Society (2016)*

#### PRESENTATIONS

##### Symposia and Meetings Organized

- Tiger Conservation. 2019. Symposium at Pathways 2019: Human Dimensions of Wildlife Conference, Estes Park, Colorado (co-organized with Shari Rodriguez and Matthew Brownlee).
- The Eastern Spotted Skunk: Multi-regional cooperative efforts to address the decline of a once abundant furbearer. 2018. Symposium at the 25<sup>th</sup> Annual Conference of The Wildlife Society, Cleveland, Ohio.
- Eastern Spotted Third Annual Cooperative Study Group Meeting. 2018. 28th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Roanoke, Virginia.
- Eastern Spotted Skunk Symposium and Second Annual Cooperative Study Group Meeting. 2017. 22nd Annual Meeting of the Southeastern Bat Diversity Network & 27th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Ashville, North Carolina.
- Enhancing Wildlife Reintroduction Success. 2016. Symposium at 23<sup>rd</sup> Annual Conference of The Wildlife Society, Raleigh, North Carolina.
- Eastern Spotted Skunk Symposium and Cooperative Study Group Meeting. 2016. 21st Annual

Meeting of the Southeastern Bat Diversity Network & 26th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Guntersville, Alabama.

University Seminars, Professional Society and Symposium Presentations (\* = undergraduate student, graduate student or post-doc mentored, \*\* = invited speaker)

- Shute, K.E.\*, S.C. Loeb, and D.S. Jachowski. 2020. Roost use and selection of northern yellow bats and tri-colored bats in coastal South Carolina. 30th Annual Southeastern Bat Diversity Network and Colloquium on the Conservation of Mammals in the Southeastern U.S., Athens, Georgia.
- Marneweck, C.J.\*, T. Katzner, and D.S. Jachowski. 2020. EagleCam: Camera trap bycatch data offers valuable insights into scavenger communities. 30th Annual Southeastern Bat Diversity Network and Colloquium on the Conservation of Mammals in the Southeastern U.S., Athens, Georgia.
- Muthersbaugh, M.\*, A.J. Jensen\*, C. Ruth, J. Cantrell, J.C. Kilgo, and D.S. Jachowski. 2020. Causes of white-tailed deer mortality in the Piedmont region of South Carolina. Annual Southeastern Deer Study Group Meeting, Auburn, Alabama.
- Siegfried, A.C.\*, S.C. Loeb, J. Kindel and D.S. Jachowski. 2019. Working with the North American Bat Monitoring Program (NABat): A Growing bat conservation plan in South Carolina. ACE Basin Research Symposium, Edisto Island, South Carolina.
- Shute, K.E.\*, S.C. Loeb, and D.S. Jachowski. 2019. Seasonal differences in nocturnal habitat use by northern yellow bats (*Dasypterus intermedius*) in the coastal plain of South Carolina. Annual meeting of the North American Society for Bat Researchers, Kalamazoo, Michigan.
- Newman, B.A.\*, S.C. Loeb, and D.S. Jachowski. 2019. Winter activity patterns of no-cave hibernating tri-colored bats. Annual meeting of the North American Society for Bat Researchers, Kalamazoo, Michigan.
- Siegfried, A.C.\*, S.C. Loeb, and D.S. Jachowski. 2019. Using NABat to determine factors affecting overall bat activity at various spatial scales throughout South Carolina. Annual meeting of the North American Society for Bat Researchers, Kalamazoo, Michigan.
- Jensen, A.J.\*, M. Muthersbaugh\*, J. Butfiloski, C. Ruth, J.C. Kilgo, and D.S. Jachowski. 2019. Deer and coyote ecology in the piedmont: An update on the first year. Annual meeting of the South Carolina Chapter of The Wildlife Society, Sandhills, South Carolina.
- Bombaci, S.\*, M. St. Germain, M. Ford, S. Loeb, D. Jachowski, R. Russell, and C. Dobony. 2019. Disease and wind energy development interact to restructure bat communities in Eastern North America. American Fisheries Society and The Wildlife Society Joint Annual Conference, Reno, Nevada.
- Bombaci, S.\*, and D. Jachowski. 2019. Community-level consequences of conservation translocations. American Fisheries Society and The Wildlife Society Joint Annual Conference, Reno, Nevada.\*\*
- Gigliotti, L.\*, R. Slotow, J. Fattebert, C. Sholto-Douglas, and D. Jachowski. 2019. Demographic consequences of habitat use: Effects of spatial variation in predation risk, prey availability, and habitat complexity on the survival of cheetahs. American Fisheries Society and The Wildlife Society Joint Annual Conference, Reno, Nevada.
- Jensen, A.J.\*, M. Muthersbaugh\*, J. Butfiloski, C. Ruth, J.C. Kilgo, and D.S. Jachowski. 2019. Coyote and deer interactions in South Carolina using concurrent GPS collars. American Fisheries Society and The Wildlife Society Joint Annual Conference, Reno, Nevada.
- Muthersbaugh, M.\*, A.J. Jensen\*, C. Ruth, J. Cantrell, J.C. Kilgo, and D.S. Jachowski. 2019. Causes of white-tailed deer mortality in the Piedmont region of South Carolina. American Fisheries Society and The Wildlife Society Joint Annual Conference, Reno, Nevada.
- Westwood, S.\*, L. Gigliotti, and D. Jachowski. 2019. The effects of moonlight on the activity patterns of spotted hyena (*Crocuta Crocuta*) in South Africa. Summer Creative Inquiry and Undergraduate Research Showcase, Clemson, University.
- Gigliotti, L.\*, R. Slotow, J. Fattebert, C. Sholto-Douglas, and D. Jachowski. 2019. Context-

- dependency of top-down, bottom-up, and density-dependent influences on cheetah demography. 29<sup>th</sup> International Congress for Conservation Biology, Kuala Lumpur, Malaysia.
- Jachowski, D.S. 2019. Mesos in the middle: Challenges with conserving the world's endangered mesocarnivores. Smithsonian Institution, Front Royal, Virginia. \*\*
- Newman, B.A.\*, S.C. Loeb, and D.S. Jachowski. 2019. Ambient temperature influences torpor patterns of alternate roosting tri-colored bats. 99<sup>th</sup> meeting of the American Society of Mammalogists, Washington, D.C.
- Jensen, A.\*, M. Muthersbaugh, J. Butfiloski, C. Ruth, J.C. Kilgo, and D.S. Jachowski. 2019. Coyote and deer interactions in South Carolina using concurrent GPS collars. 99<sup>th</sup> meeting of the American Society of Mammalogists, Washington, D.C.
- Jachowski, D.S.\*\* and A. Edelman. 2019. Eastern Spotted Skunk research and monitoring in the southeastern United States. 2019 Southeast/Midwest Joint Furbearer Meeting, Enid, Oklahoma.
- Harris, S.\*\*, C. Dukes, A. Hody\*, D. Jachowski, and C. Olfenbittel. 2019. Eastern spotted skunk ecology and monitoring in western North Carolina. Annual Meeting of the North Carolina Chapter of The Wildlife Society, Black Mountain, North Carolina.
- McDaniel, E.\*, M. Ferral\*, F. Slater\*, G. Taylor\*, G. Lascano, K. Titus\*, and D.S. Jachowski. 2019. Effects of Ponderosa Pine (*Pinus ponderosa*) Thinning on Forage Quality and Quality in the Northern Great Plains of Montana. 14th Annual Focus on Creative Inquiry Forum, Clemson, South Carolina.
- Goodman, K.\*, K. Rhodes\*, S. Stewart\*, M. Stowasser\*, Z. Chapman\*, L. Gigliotti\*, and Jachowski, D. 2019. Effects of vehicles on African wildlife activity and behavior. 14th Annual Focus on Creative Inquiry Forum, Clemson, South Carolina.
- Hody, A.\*, C. Olfenbittel, C. Dukes, S. Harris, and D.S. Jachowski. 2019. Distribution and rest site observations of eastern spotted skunks in North Carolina. 29th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Jacksonville, Florida.
- St. Germain, M.J., D.S. Jachowski, S. Bombaci, W.M. Ford, R.E. Russell, and S.C. Loeb. 2019. I shall be released! Clemency from the WNS parole board. 29th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Jacksonville, Florida.
- Newman, B.A.\*, S.C. Loeb, and D.S. Jachowski. 2019. Ambient temperature influences torpor patterns of alternate roosting tri-colored bats. 29th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Jacksonville, Florida.
- Shute, K.E.\*, S.C. Loeb, and D.S. Jachowski. 2019. Seasonal variation in habitat use by bats in coastal South Carolina. 29th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Jacksonville, Florida.
- Teets, K.D.\*, S.C. Loeb and D.S. Jachowski. 2019. Temporal changes of bat activity following the arrival of white-nose syndrome in northwestern South Carolina. 29th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Jacksonville, Florida.
- Jachowski, D.S. 2018. Improving success in working reintroduction landscapes: How changing socio-political dynamics support multi-species restoration in the Northern Great Plains. IUCN 2<sup>nd</sup> Wildlife Reintroduction Conference, Chicago, Illinois.
- Gigliotti, L.C.\*, R. Slotow, L. Hunter, and D.S. Jachowski. 2018. Factors influencing demography in a restored cheetah population: Context-dependency of top-down and bottom-up drivers. 25<sup>th</sup> annual meeting of The Wildlife Society, Cleveland, Ohio.
- Harris, S.N.\*, T.J. Doonan, E.L. Hewett Ragheb, and D.S. Jachowski. 2018. The spotted skunks of the Florida dry prairie: insights into resource selection, movement and diet. 25<sup>th</sup> annual meeting of The Wildlife Society, Cleveland, Ohio.\*\*
- Thorne, E.\*, R. Eng, C. Waggy, M. Ford, and D.S. Jachowski. 2018. Large- and fine-scale habitat associations of eastern spotted skunks (*Spilogale putorius*) in the central and southern Appalachians. 25<sup>th</sup> annual meeting of The Wildlife Society, Cleveland, Ohio.\*\*
- Butler, A.\*, K. Bly, H. Harris, B. Inman, A. Moehrensclager, D. Schwalm, and D. Jachowski.

- Home range and resource selection patterns of a recovering swift fox population in northeastern Montana: Implications for statewide habitat suitability. 25<sup>th</sup> annual meeting of The Wildlife Society, Cleveland, Ohio.
- Jachowski, D.S. 2018. Advancing Mesocarnivore Conservation: The Eastern Spotted Skunk Cooperative Study Group Model. 25<sup>th</sup> annual meeting of The Wildlife Society, Cleveland, Ohio.\*\*
- Newman, B.A.\*, S.C. Loeb, and D.S. Jachowski. 2018. Susceptibility of tri-colored bats using alternate winter roosts to white-nose syndrome. North American Society for Bat Researchers Symposium, Mexico.
- Shute, K.E.\*, S. Loeb, and D. Jachowski. 2018. Habitat effects on activity levels of bats in South Carolina. North American Society for Bat Researchers Symposium, Mexico.
- Butler, A.\*, K. Bly, H. Harris, B. Inman, A. Moehrensclager, D. Schwalm, and D. Jachowski. 2018. Northern Great Plains swift fox connectivity project. 8th Annual Matador Ranch Science and Land Management Symposium, Malta, Montana.
- Froehly, J.L.\*, A. Tegeler, C.M.B. Jachowski, and D.S. Jachowski. 2018. Effects of scale and land cover on Loggerhead shrike occupancy. American Ornithological Society (136th Stated Meeting), Tuscon, Arizona.
- Harris, S.N.\*, T.J. Doonan, E.L. Hewett Ragheb, and D.S. Jachowski. 2018. Den site selection of Florida spotted skunks (*Spilogale putorius ambarvalis*) in a dry prairie ecosystem. 28th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Roanoke, Virginia.
- Teets, K.D.\*, S. Loeb, J. Kilgo, and D.S. Jachowski. 2018. Comparison of passive and active acoustic sampling in a bat community in south-central South Carolina. 28th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Roanoke, Virginia.
- Eng, R.Y.\* and D.S. Jachowski. 2018. Fine scale habitat selection by eastern spotted skunks (*Spilogale putorius*) in the South Carolina Appalachians. North American Joint Bat Working Group Meeting, Roanoke, Virginia.
- Gigliotti, L.\*, R. Slotow, J. Fattebert, J.J. van Rensburg, L. Hunter, and D. Jachowski. 2018. Temporal and spatial variability in prey abundance, predation risk, and habitat complexity: Implications for cheetah demography. Gordon Research Conference, Predator-prey interactions, Ventura, California.
- Van Neste, K.M.\*, S. Loeb, and D. Jachowski. 2017. Evaluating bat community structure in Chickamauga and Chattanooga National Military Park post-white nose syndrome. 2017 North American Society for Bat Researchers Symposium, Knoxville, Tennessee.
- Teets, K.D.\*, D. Jachowski, S. Loeb, J. Kilgo, and W. M. Ford. 2017. The effects of white-nose syndrome on bat community structure in South Carolina. 2017 North American Society for Bat Researchers Symposium, Knoxville, Tennessee.
- Froehly, J.L.\*, A. Tegeler, B. Ross, C.M.B. Jachowski, P.G.R. Jodice, and D.S. Jachowski. 2017. Loggerhead shrike occurrence in South Carolina. American Ornithological Society (135th Stated Meeting) and Society of Canadian Ornithologists (35th Stated Meeting), East Lansing, Michigan.
- Kraft, K., L. Larson, R. Powell, L. Allen, J. Hallo, and D. Jachowski. 2017. Assessing the cultural context for predator conservation. Pathways Conference 2017, Estes Park, Colorado.
- Jachowski, D.S.\*\* 2017. Integrating monitoring, research and management to improve conservation of mammalian mesocarnivores. 24<sup>th</sup> annual meeting of The Wildlife Society, Albuquerque, New Mexico.
- Eng, R.Y.\*, J. Butfiloski, C. Olfenbittel, N. Castleberry, K. Morris, and D.S. Jachowski. 2017. Spotted skunks among us: A tri-state cooperative project for monitoring a poorly understood carnivore in the southern Appalachians. 24<sup>th</sup> annual meeting of The Wildlife Society, Albuquerque, New Mexico.
- Gigliotti, L.\*, M.R. Matchett, and D. Jachowski. 2017. Habitat use patterns of mountain lions in relation to behavioral state: Implications for connectivity. 24<sup>th</sup> annual meeting of The



- Wildlife Society, Albuquerque, New Mexico.
- Butler, A.\*, K. Bly, H. Harris, B. Inman, A. Moehrenschrager, D. Schwalm, and D. Jachowski. 2017. Influence of life-history stage, movement state, and resource dispersion on swift fox habitat use in the Northern Great Plains. 24<sup>th</sup> annual meeting of The Wildlife Society, Albuquerque, New Mexico.
- Harris, S.N.\*, T.J. Doonan, E.L. Hewett Ragheb, and D.S. Jachowski. 2017. Den site selection of Florida spotted skunks in a dry prairie ecosystem. 24<sup>th</sup> annual meeting of The Wildlife Society, Albuquerque, New Mexico.
- Vance, J., D. Jachowski, A. Boynton, and M. Kelly. 2017. The importance of evaluating GPS telemetry collar performance in monitoring reintroduced elk populations. Northeast Association of Fish and Wildlife Agencies, Norfolk, Virginia.
- Sirajuddin, P.\*, S.C. Loeb, E.R. Britzke, and D. Jachowski. 2017. Seasonal variation of torpor patterns and hibernacula conditions of tricolored bats in South Carolina. 22nd Annual Meeting of the Southeastern Bat Diversity Network, Ashville, North Carolina.
- Teets, K.D.\*, S. Loeb, J. Kilgo, D. Jachowski, and W. M. Ford. 2017. A changing community? The effects of white-nose syndrome on bat community structure in the southeastern U.S. 22nd Annual Meeting of the Southeastern Bat Diversity Network, Ashville, North Carolina.
- Eng, R.Y.\*, J. Butfiloski, C. Olfenbittel, N. Castleberry, K. Morris, and D.S. Jachowski. 2016. Spotted skunk habitat selection and use in the Carolinas, and Georgia. 27th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Ashville, North Carolina.
- Harris, S.N.\*, T.J. Doonan, E.L. Hewett Ragheb, and D.S. Jachowski. 2017. Ecology of the Florida spotted skunk in a dry prairie ecosystem. 27th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Ashville, North Carolina.
- Jachowski, D.\*\* 2017. Animal reintroduction in the Anthropocene: Opportunities, challenges and future directions. School of Forestry and Wildlife Sciences Seminar Series, Auburn University, Auburn, Alabama.
- Jachowski, D., S. Bremner-Harrison, D. Steen, and K. Aarestrup. 2016. Accounting for potential physiological and behavioral responses to improve animal reintroduction success. 23<sup>rd</sup> annual meeting of The Wildlife Society, Raleigh, North Carolina.
- Millspaugh, J., D.S. Jachowski, R. Slotow, and P. Angermeier. 2016. The future of animal reintroductions. 23<sup>rd</sup> annual meeting of The Wildlife Society, Raleigh, North Carolina.
- Eng, R.Y.\*, J. Butfiloski, C. Olfenbittel, N. Castleberry, K. Morris, and D.S. Jachowski. 2016. Large scale monitoring for a cryptic and understudied species, the Eastern spotted skunk. 23<sup>rd</sup> annual meeting of The Wildlife Society, Raleigh, North Carolina.
- Froehly, J.L.\*, D.S. Jachowski, P.G.R. Jodice, A. Tegeler, and B. Ross. 2016. Occupancy and detectability of loggerhead shrikes in South Carolina. 23<sup>rd</sup> annual meeting of The Wildlife Society, Raleigh, North Carolina.
- Harris, S.N.\*, T.J. Doonan, E.L. Hewett Ragheb, and D.S. Jachowski. 2016. Ecology of the eastern spotted skunk in Florida's dry prairie ecosystem. 23<sup>rd</sup> annual meeting of The Wildlife Society, Raleigh, North Carolina.
- Teets, K.\*, D. Jachowski, S. Loeb, J. Kilgo, and W.M. Ford. 2016. A changing community? The effects of white-nose syndrome on bat community structure in the southeastern U.S. 23<sup>rd</sup> annual meeting of The Wildlife Society, Raleigh, North Carolina.
- Thorne, E.D.\*, C.D. Waggy, D.S. Jachowski, M.J. Kelly, and W.M. Ford. 2016. Co-existence and temporal overlap of mesocarnivores in central and southern Appalachia. 23<sup>rd</sup> annual meeting of The Wildlife Society, Raleigh, North Carolina.
- Neece, B.\*, S.C. Loeb, and D.S. Jachowski. 2016. Effects of call classification techniques and survey method on site occupancy. North American Society of Bat Researchers, San Antonio, Texas.
- Sirajuddin, P.\*, S.C. Loeb, E.R. Britzke, and D. Jachowski. 2016. Understanding the vulnerability of tri-colored bats to white-nose syndrome: Torpor patterns and hibernacula

- conditions. North American Society of Bat Researchers, San Antonio, Texas.
- McMillan, N.\*, K. Kunkel, and D.S. Jachowski. 2016. Plant community responses to bison and cattle in the Northern Great Plains. American Bison Society Meeting, Banff, Alberta, Canada.
- Neece, B.\*, S.C. Loeb, and D.S. Jachowski. 2016. Effects of class classification software and survey method on tri-colored bat detection and occupancy probabilities. 21st Annual Meeting of the Southeastern Bat Diversity Network & 26th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Guntersville, Alabama.
- Sirajuddin, P.\*, H. Blackwell, S.C. Loeb, E.R. Britzke, and D. Jachowski. 2016. Understanding the vulnerability of tri-colored bats to white-nose syndrome in the south: Torpor patterns and hibernacula conditions. 21st Annual Meeting of the Southeastern Bat Diversity Network & 26th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Guntersville, Alabama.
- Eng, R.Y.\*, J. Butfiloski, S. Wilson\*, and D. Jachowski. 2016. The eastern spotted skunk in South Carolina... and beyond. 21st Annual Meeting of the Southeastern Bat Diversity Network & 26th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Guntersville, Alabama.
- Thorne, E.\*, C. Waggy, D. Jachowski, and W.M. Ford. 2016. Habitat associations of the eastern spotted skunk (*Spilogale putorius*) in western Virginia. 21st Annual Meeting of the Southeastern Bat Diversity Network & 26th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Guntersville, Alabama.
- Thorne, E.\*, C. Waggy, D. Jachowski, and W.M. Ford. 2016. First observation of post-weaning food provisioning in eastern spotted skunks (*Spilogale putorius*). 21st Annual Meeting of the Southeastern Bat Diversity Network & 26th Annual Colloquium on the Conservation of Mammals in the Southeastern U.S., Guntersville, Alabama.
- Neece, B.\*, S. Loeb, D. Jachowski, and M. Bunch. 2015. Statewide acoustic monitoring of bats: establishing the North American Bat Monitoring Program (NABat) in South Carolina. North American Society for Bat Researchers, Monterey, California.
- Eng, R.\*, J. Butfiloski, and D.S. Jachowski. 2015. Eastern spotted skunks in S.C.: What we know and what we hope to learn. South Carolina Chapter of The Wildlife Society, McCormick, South Carolina.
- Neece, B.\*, S. Loeb, D. Jachowski, and M. Bunch. 2015. Establishing the North American Bat Monitoring Program (NABat) in South Carolina. South Carolina Chapter of The Wildlife Society, McCormick, South Carolina.
- Jachowski, D.S., T. Katzner, and W.M. Ford. 2015. Using citizen science to monitor landscape-level patterns in raptor and carnivore community ecology. 22<sup>nd</sup> Annual Conference of The Wildlife Society, Winnipeg, Manitoba, Canada.
- Azad, S.\* and D.S. Jachowski. 2015. Investigating the performance of population reconstruction models for black bear management in South Carolina. Clemson Biological Sciences Annual Student Symposium, Clemson University, Clemson, South Carolina.
- Diggins, C.A., D.S. Jachowski, J. Martin, and W.M. Ford. 2015. Incidental captures of Eastern spotted skunk in a high-elevation red spruce forest in the Southern Appalachians. 25<sup>th</sup> Colloquium on the Conservation of Mammals, St. Louis, Missouri.
- Diggins, C.A., D.S. Jachowski, J. Martin, and W.M. Ford. 2015. Incidental captures of Eastern spotted skunk in a high-elevation red spruce forest in the Southern Appalachians. Virginia Chapter of The Wildlife Society Annual Conference, Natural Bridge Hotel, Natural Bridge, Virginia.
- Jachowski, D.S., M. Vukovich, T. Katzner, J. Beasley, and K. Turner. 2014. Monitoring landscape-level distribution and migration phenology of raptors using a volunteer camera trap network: a national program with a South Carolina focus. Annual meeting of the South Carolina Chapter of The Wildlife Society, Florence, South Carolina.
- Jachowski, D.S., C. Dobony, E. Britzke, J. Edwards, J. Johnson, L. Coleman, W.M. Ford, and J.

- Rodrigue. 2014. You don't know what you got till it's gone: 10 years of bat research at Fort Drum, New York. 21<sup>st</sup> Annual Conference of The Wildlife Society, Pittsburgh, Pennsylvania.
- Jachowski, D.S. 2014. Whole-animal conservation: Advancing wildlife conservation by integrating multiple data streams. Environmental Toxicology Seminar Series, Clemson University, Clemson, South Carolina (invited speaker).
- Jachowski, D.S. 2014. The need for prioritizing private lands in endangered carnivore recovery: A case study of the black-footed ferret. North American Congress for Conservation Biology, Missoula, Montana.
- Jachowski, D.S., R. Slotow and J.J. Millspaugh. 2014. Linking animal physiology and movement behavior: A case study of the African elephant. Symposium on Animal Movement and the Environment, Raleigh, North Carolina.
- Jachowski, D.S., R. Slotow and J.J. Millspaugh. 2011. Physiological stress and refugia behavior by African elephants. 18<sup>th</sup> Annual Wildlife Society Conference, Waikoloa, Hawaii.
- Ayers, C.R., J.L. Belant, J.J. Millspaugh, D.A. Eads, and D.S. Jachowski. 2011. Effects of resource use on recruitment of black-footed ferrets. 18<sup>th</sup> Annual Wildlife Society Conference, Waikoloa, Hawaii.
- Jochems, B.\*, D. Jachowski, M. Wehtje, N. Brown and M. Gompper. 2011. Mitigating plague risk in Utah prairie dogs: A look at flea phenology. Office of the Director of National Intelligence, Intelligence Community, Centers for Academic Excellence Regional Colloquium on National Security Studies, Columbia, Missouri.
- Ayers, C.R., J.L. Belant, J.J. Millspaugh, D.A. Eads, and D.S. Jachowski. 2011. Effect of black-footed ferret resource use on litter size. The Mississippi Chapter of the Wildlife Society, 2011 Annual Meeting, Louisville, Mississippi.
- Jachowski, D.S. and J.J. Millspaugh. 2011. Glucocorticoid stress hormones and refugia behavior by African elephants. 28<sup>th</sup> Annual University of Missouri Research and Creative Activities Forum, Columbia, Missouri.
- Jachowski, D.S., R.A. Gitzen, M.B. Grenier, B. Holmes and J.J. Millspaugh. 2010. The importance of thinking big: Large scale prairie dog conservation drives black-footed ferret reintroduction success. 37<sup>th</sup> Annual Natural Areas Conference, Osage Beach, Missouri.
- Jochems, B.\*, D. Jachowski, M. Wehtje, N. Brown and M. Gompper. 2010. Mitigating plague risk in Utah prairie dogs: A look at flea phenology. Summer undergraduate research and creative achievements forum, University of Missouri, Columbia, Missouri.
- Eads, D.A.\*, J.J. Millspaugh, D.E. Biggins, D.S. Jachowski and T.M. Livieri. 2010. Evaluation of a black-footed ferret resource utilization function model. Front Range Student Ecology Symposium, Fort Collins, Colorado.
- Brown, N.L. and D.S. Jachowski. 2010. Mitigating plague risk in prairie dogs: a systemic approach to flea control. 90<sup>th</sup> meeting of the American Society of Mammalogists, Laramie, Wyoming.
- Jachowski, D.S., R.A. Gitzen, M.B. Grenier, B. Holmes and J.J. Millspaugh. 2010. Evaluating attempts to reintroduce black-footed ferrets to North America. 90<sup>th</sup> meeting of the American Society of Mammalogists, Laramie, Wyoming.
- Eads, D.A.\*, B.E. Holmes, D.E. Biggins, D.S. Jachowski, J.J. Millspaugh, T.M. Livieri and M.R. Matchett. 2009. Burrow distributions and resource selection of black-footed ferrets on black-tailed and white-tailed prairie dog colonies. Carnivores 2009: Carnivore Conservation in a Changing World, Denver, Colorado.
- Jachowski, D.S., J.J. Millspaugh, D.E. Biggins, T.L. Livieri, M.R. Matchett and C.D. Rittenhouse. 2008. Resource selection by black-footed ferrets in Montana and South Dakota. The Wildlife Society 15<sup>th</sup> Annual Conference, Miami, Florida.
- Jachowski, D.S., J.J. Millspaugh, D.E. Biggins, T.L. Livieri, M.R. Matchett and C.D. Rittenhouse. 2008. Resource selection by black-footed ferrets in Montana and South Dakota. 88<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Brookings, South

Dakota.

Millspaugh, J.J., R.A. Gitzen, D.S. Licht, S. Amelon, T. Bonnot, D.T. Farrand, D. Jachowski, B. Keller, C. McGowan, S. Pruett, C. Rittenhouse, and K. Suedkamp Wells. 2007. Natural demographics of bison in the Great Plains. George Wright Society Biennial Conference, St. Paul, Minnesota.

Jachowski, D.S. and J.J. Millspaugh. 2006. Implications of changes in black-tailed prairie dog spatial dynamics over time. 67<sup>th</sup> Midwest Fish and Wildlife Conference, Omaha, Nebraska.

Working Group and Government Agency Presentations (\* = graduate or undergraduate student mentored)

Jachowski, D.S. 2020. Eastern spotted skunk ecology and conservation. Island spotted skunk summit, January 16, 2020. Ventura, California.

Hody, J., C. Olfenbuttel, and D.S. Jachowski. 2017. Upcoming eastern spotted skunk (*Spilogale putorius*) research, 2018. North Carolina Wildlife Resources Commission, Mountain Region Land and Water Access Meeting, December 13, 2017. Marion, North Carolina.

Butler, A.R.\* and D.S. Jachowski. 2017. Influence of season, resource dispersion, life-history stage, and movement state on swift fox habitat use in the Northern Great Plains. Workshop on track annotation, visualization and analysis using Movebank and R, May 25-26, 2017. North Carolina Museum of Natural History, Raleigh, North Carolina.

Teets, K.D.\*, S. Loeb, J. Kilgo, D. Jachowski, and W. M. Ford. 2017. A changing community? The effects of white-nose syndrome on bat community structure in the southeastern U.S. 4<sup>th</sup> Annual Georgia Bat Working Group Bat Blitz, Blairsville, Georgia.

Jachowski, D.S. 2017. Delta smelt reintroduction planning workshop, May 18-19, 2017. Davis, California (invited keynote speaker, declined).

Teets, K.\*, D. Jachowski, S. Loeb, J. Kilgo, and W.M. Ford. 2016. A changing community? The effects of white-nose syndrome on bat community structure in the southeastern U.S. Annual Georgia Bat Working Group Meeting, Athens, Georgia.

Jachowski, D.S. 2016. Department of Interior Coregonine Restoration Science Workshop, October 11-12, 2016. Ann Arbor, Michigan (invited keynote speaker, declined).

Jachowski, D.S. 2016. Eastern spotted skunk research in the southeastern U.S. Southeast Association of Fish and Wildlife Agencies Furbearer Working Group Meeting, Rising Fawn, Georgia (invited speaker).

Jachowski, D.S. 2016. Eastern spotted skunk cooperative study group update/discussion. Southeast Association of Fish and Wildlife Agencies Furbearer Working Group Meeting, Rising Fawn, Georgia (invited speaker).

Diggins, C.A.\*, D.S. Jachowski, J. Martin, and W.M. Ford. 2015. Incidental captures of Eastern spotted skunk in a high-elevation red spruce forest in the Southern Appalachians. 69<sup>th</sup> Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, Renaissance Hotel, Asheville, North Carolina.

Jachowski, D.S. 2015. Research to inform management of game and non-game mammalian and avian species of conservation concern in South Carolina. Clemson University and South Carolina Department of Natural Resources Cooperative Program Meeting, Clemson, South Carolina.

Loeb, S., B. Neece, D. Jachowski, and M. Bunch. 2015. Assessment of the North American Bat Monitoring Program (NABat) in the Carolinas. Clemson University and South Carolina Department of Natural Resources Cooperative Program Meeting, Clemson, South Carolina.

Rodrigue, J.L., T.E. Katzner, D. Jachowski, and W.M. Ford. 2014. Camera trapping dataset summary, preliminary analysis of camera data. Eastern Golden Eagle Working Group, Davis, West Virginia.

Jachowski, D.S., C.A. Dobony, L.S. Coleman, W.M. Ford, E.R. Britzke, and J.L. Rodrigue. 2014. Disease and community assemblage: white-nose syndrome alters spatial and temporal niche partitioning in sympatric bat species. Northeastern Bat Working Group, Clinton, New

Jersey.

- Jachowski, D.S., N. Brown, M. Wehtje, D. Tripp, J.J. Millspaugh and M.E. Gompper. 2011. Flea ecology and control on Utah prairie dogs: insights in plague risk mitigation. Utah Prairie Dog Recovery Implementation Program Meeting, Cedar City, Utah.
- Jachowski, D.S. and N.L. Brown. 2010. Evaluation of a systemic approach to flea control in the Genus *Cynomys*. Utah Chapter of the Wildlife Society annual meeting, Moab, Utah.
- Jachowski, D.S. 2009. History of black-footed ferret reintroduction attempts in North America. Black-footed ferret Conservation Subcommittee Meeting. Raton, New Mexico.

Public Outreach Presentations

- Jachowski, D.S. 2016. Wild Again: The struggle to save the black-footed ferret. Meeteetse Museum, Meeteetse, Wyoming (invited speaker).
- Jachowski, D.S. 2016. Saving a Great Plains icon: The black-footed ferret. Center for Great Plains Studies, Lincoln, Nebraska (invited speaker).
- Jachowski, D.S. 2016. Wild Again: The struggle to save the black-footed ferret. Omaha Zoo, Omaha, Nebraska (invited speaker).
- Jachowski, D.S. 2014. Wild Again: The struggle to save the black-footed ferret. Draper Museum of Natural History, Cody, Wyoming (invited speaker).
- Jachowski, D.S. 2013. Life after graduation: wildlife biology and the Peace Corps. Virginia Tech Chapter of The Wildlife Society, Blacksburg, Virginia (invited speaker).
- Jachowski, D.S. 2011. Conservation of the Philippine tarsier. University of Missouri Student Chapter of The Wildlife Society, Columbia, Missouri (invited speaker).
- Jachowski, D.S. 2004. Black-footed ferret management in Montana. Eastern Montana Prairie Ecology Forum, Department of Agriculture, Montana State University, Bozeman, Montana (invited speaker).
- Jachowski, D.S. 2004. The Peace Corps volunteer experience: Philippines. U.S. Peace Corps recruitment seminar, Montana State University, Bozeman, Montana (invited speaker).