

Larkin Andrew Powell

CURRICULUM VITAE

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Education

- PhD 1998 Ecology: University of Georgia, Athens, Georgia.
*Dissertation: Experimental analysis and simulation modeling of forest management impacts on wood thrushes, *Hylocichla mustelina*.*
- MS 1992 Ecology and Evolutionary Biology: Iowa State University, Ames, Iowa.
Thesis: Derivation, distribution, and survival of mallards using the Upper Mississippi River as determined from band recovery data.
- BS 1990 Biology: Graceland University, Lamoni, Iowa.

Summary of Administrative Appointments

- 2023- Director, School of Natural Resources (1.00 FTE)
- 2020-2023 Associate Dean for Experiential Education, College of Agricultural Sciences and Natural Resources (0.5 FTE)
- 2019-20 Interim Coordinator, Tern and Plover Conservation Partnership, SNR (0.1 FTE)
- 2017-19 Co-coordinator, Curriculum Development (Rwandan Institute of Conservation Agriculture), College of Ag. Sciences and Natural Resources (0.5 FTE)
- 2011-19 Director, Great Plains Cooperative Ecosystems Studies Unit (0.1 FTE)
- 2010-18 Mission Area Leader, Applied Ecology Mission Area, SNR (0.1 FTE)
- 2012-13 Interim Associate Director, School of Natural Resources (0.5 FTE)
- 2011-12 Interim Associate Dean, Agricultural Resource Division (0.5 FTE)

Summary of Professional Appointments

- 2010- Professor, School of Natural Resources, University of Nebraska-Lincoln
(2005-10: Associate Professor, 2001-05: Assistant Professor)
- 2021- Fellow, Daugherty Water for Food Global Institute
- 1998-01 Assistant Professor, Department of Biology, University of Dubuque, Iowa
- 1998 Postdoctoral Research Associate, School of Forest Resources, University of Georgia, Athens, Georgia
- 1997-98 Adjunct Instructor, Brenau University, Gainesville, Georgia
- 1993-97 Graduate Assistant, School of Forest Resources & Institute of Ecology, University of Georgia, Athens, Georgia
- 1993 Instructor, Department of Animal Ecology, Iowa State University, Ames, Iowa
- 1990-92 Graduate Assistant, Department of Animal Ecology, Iowa State Univ., Ames, Iowa

Summary of Visiting Scientist Appointments

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| 2018 | Visiting Research Scientist, Game and Wildlife Conservation Trust, Fordingbridge, England |
| 2014, 16 | Visiting Instructor, King Mongkut's University of Technology Thonburi, Bangkok, Thailand (3-week course/workshop) |
| 2009 | Visiting Lecturer/Fulbright Scholar, Dept. of Nature Conservation, Polytechnic of Namibia, Windhoek, Namibia |

Awards

- Fellow, The Wildlife Society, 2022.
- Fellow, Daugherty Water for Food Global Institute, 2021
- UNL Parents' Association: Contributions to Students Recognition (received 7 times; most recent: 2021).
- 2020 Nebraska Book Award: nonfiction nature reference. Great Plains Birds (University of Nebraska Press). The Nebraska Center for the Book, 2020.
- Excellence in Wildlife Education Award, The Wildlife Society (*peer nominated*), 2019.
- Fellow of the College of Agricultural Sciences and Natural Resources (for contributions provided to scholarship in research for undergraduate students), UNL (*peer nominated*), 2017.
- Holling Family Senior Faculty Award for Teaching Excellence, College of Agricultural Sciences and Natural Resources, UNL (*peer nominated*), \$5000 stipend, 2017.
- The Wildlife Society: 2016 Wildlife Publications Award (with 14 co-authors, 2015 *Ecosphere* manuscript).
- Career Professional Award, Nebraska Chapter of The Wildlife Society, 2014.
- Fulbright Scholar: Namibia Lecture/Research Award, 2008, Council for International Exchanges of Scholars.
- Teaching Award of Merit, National Association of College Teachers of Agriculture; presented by the College of Agricultural Sciences and Natural Resources (UNL), 2008.
- Superior Academic Advising Award, College of Agricultural Sciences and Natural Resources (*student-nominated*), 2007.
- Holling Family Junior Faculty Award for Teaching Excellence, College of Agricultural Sciences and Natural Resources, UNL (*peer nominated*), \$3000 stipend, 2004.
- Faculty of the Year, University of Dubuque, 2000 (*student selected*).
- Stoddard-Burleigh-Sutton Award for Excellence in Ornithology, 1998, Institute of Ecology and School of Forest Resources, UGA, \$1000.
- Presentation Award, 1997, School of Forest Resources, UGA, \$100.
- Ding Darling Scholarship, 1992, Dept. of Animal Ecology, ISU, \$500.
- Campus Life Award, 1990, Graceland College.

Peer-reviewed Publications

(* *my student or post-doc*; ◦ *other students*, ≠ *teaching-related publication*)

139. ◦ Angkaew, R., D. Ngoprasert, **L. A. Powell**, W. Limparungpatthanakij, P. D. Round, G. A. Gale. In press. Variation in avian responses to rice intensification in the central plains of Thailand guides conservation opportunities. *Biological Conservation*.
138. * Beard, A. N., and **L. A. Powell**. 2023. Drought influences annual survival of painted turtles in western Nebraska. *Diversity* 15(597): d15050597.
137. * **Powell, L. A.**, E. P. Dolph, and C. R. Neil. 2023. Drought affects sex ratio and growth of painted turtles in a long-term study in Nebraska. *Climate Change Ecology* 5:100072.
136. * Berger, D. J., J. J. Lusk, **L. A. Powell**, and J. P. Carroll. 2023. Exploring old data with new tricks: Long-term monitoring indicates spatial and temporal changes in populations of sympatric prairie grouse in the Nebraska Sandhills. *Diversity* 15(114):d15010114.

135. ◦ Angkaew, R., P. D. Round, D. Ngoprasert, **L. A. Powell**, W. Limparungpatthanakij, and G. A. Gale. 2022. Collateral damage from agricultural netting to open-country bird populations in Thailand. *Conservation Science and Practice* e12810:1-13.
134. **Powell, L. A.**, N. J. Aebischer, S. C. Ludwig, and D. Baines, D. 2022. Retrospective comparisons of competing demographic models give clarity from ‘messy’ management on a Scottish grouse moor. *Ecological Applications* eap.2680: 1-21.
133. Mueller, A., **L. A. Powell**, D. J. Cristiano, and D. G. Kremenetz. 2022. Survival rates of Inca Doves from Texas. *Wilson’s Journal of Ornithology* 133:509-514.
132. ◦ Roberts, C. P., D. R. Uden, C. R. Allen, D. G. Angler, **L. A. Powell**, B. W. Allred, J. D. Maestas, and D. Twidwell Jr. 2022. Tracking spatial regimes in animal communities: implications for resilience-based management. *Ecological Indicators* 136: 108567.

131. ◦ DaRugna, O. A., C. Chizinski, K. L. Pope, K. L., **L. A. Powell**, and M. A. Kaemingk. 2021. Visualizing Social-Ecological Intensities for Management of Recreation Visitors in a Multiuse System. *Journal of Environmental Management* 304: 114224.
130. Ellis, K. S., M. J. Anteau, F. J. Cuthbert, C. L. Gratto-Trevor, J. G. Jorgensen, D. J. Newstead, **L. A. Powell**, M. M. Ring, M. H. Sherfy, R. J. Swift, D. L. Toy, and D. N. Koons. 2021. Impacts of extreme environmental disturbances on piping plover survival are partially moderated by migratory connectivity. *Biological Conservation* 264: 109371(11).
129. Ejigu, D., A. Bekele, A., and **L. A. Powell**. 2021. Feeding ecology of *Walia ibex (Capra walie)* in Simien Mountains National Park, Ethiopia. *Journal of Threatened Taxa* 13: 18132–18140.
128. Hiller, T. L., R. D. Applegate, and **L. A. Powell**. 2021. The social and political context of harvest management. Pages 23-38 in K. L. Pope and **L. A. Powell**, editors. *Harvest of fish and wildlife: new paradigms for sustainable management*. CRC Press, Boca Raton, Florida, USA.
127. Kaemingk, M. A., M. P. Vrtiska, K. L. Hurley, and **L. A. Powell**. 2021. Linking social and ecological components to spatial and temporal components of harvest. Pages 39-54 in K. L. Pope and **L. A. Powell**, editors. *Harvest of fish and wildlife: new paradigms for sustainable management*. CRC Press, Boca Raton, Florida, USA.

126. ◦ Uden, D. R., D. J. Wishart, **L. A. Powell**, C. R. Allen, R. B. Mitchell, and G. Steinauer. 2021. Adaptive fuel procurement in nineteenth century Great Plains landscapes. *Environment and History* 27:65-95. (fast-track publication, 2019)
125. **Powell, L. A.**, W. Schacht, J. P. Ewald, and K. R. McCollum. 2020. Greater prairie-chickens and sharp-tailed grouse have similarly high nest survival in the Nebraska Sandhills. *The Prairie Naturalist* 52:58-75.
124. * Lyons, T., **L. A. Powell**, and M. Vrtiska. 2020. Effects of liberalizing harvest regulations on Canada goose (*Branta canadensis*) demography in Nebraska. *Journal of Fish and Wildlife Management* 11(2):1-13.
123. **Powell, L. A.**, and K. D. J. Powell. 2020. Perceptions of risk and adaptive capacity frame decisions by Namibians engaged in ecotourism. *Great Plains Research* 30: 113-123.
122. Varland, D. E., **L. A. Powell**, J. B. Buchanan, T. L. Fleming, and C. Vanier. 2020. Peregrine falcon survival rates derived from a long-term study at a migratory and overwintering area in coastal Washington, USA. *Journal of Raptor Research* 54:207-221.
121. ◦ Ejigu, D., A. Bekele, and **L. A. Powell**. 2020. Diurnal activity patterns of walia ibex (*Capra walie*) in Simien Mountains National Park, Ethiopia. *Journal of Biology and Life Science* 11:83-93.
120. * Sliwinski, M., **L. A. Powell**, and W. Schacht. 2020. Similar bird communities across grazing systems in the Nebraska Sandhills. *Journal of Wildlife Management* 84:802–812.
119. Pierce, A. J., W. Sankamethawee, **L. A. Powell**, and G. A. Gale. 2020. Patterns of nest success in an evergreen forest in Southeast Asia: the influence of two predators. *Emu - Austral Ornithology* 120:46-55.
118. * Raynor IV, E., J. Olney-Harrison, C. E. Whalen, J. A. Smith, W. Schacht, R. Tyre, J. Benson, M. B. Brown, and **L. A. Powell**. 2019. Anthropogenic noise does not surpass land cover in explaining habitat selection of Greater Prairie-Chicken (*Tympanuchus cupido*). *The Condor: Ornithological Applications* 121(4):duz044.
117. * Smith, J. A., M. B. Brown, and **L. A. Powell**. 2019. Training wildlife biologists for work in the Anthroscape. Pages 447-452 in M. I. Goldstein and D. A. DellaSala, editors. *Encyclopedia of Worlds Biomes*. Elsevier, New York, USA.
116. * Whalen, C. E., M. B. Brown, J. McGee, **L. A. Powell**, and E. J. Walsh. 2019. Wind turbine noise limits propagation of greater prairie-chicken boom chorus, but does it matter? *Ethology* 125:863–875.
115. Hiller, T. L., J. E. McFadden, **L. A. Powell**, and W. H. Schacht. 2019. Seasonal and Interspecific Landscape Use of Sympatric Greater Prairie-Chickens and Plains Sharp-tailed Grouse. *Wildlife Society Bulletin* 43:244–255.
114. * Whalen, C. E., M. Bomberger Brown, J. McGee, **L. A. Powell**, and E. J. Walsh. 2019. Effects of wind turbine noise on the surrounding soundscape in the context of greater-prairie chicken courtship vocalizations. *Applied Acoustics* 153: 132-139.
113. ◦ Roberts, C. P., V. M. Donovan, **L. A. Powell**, C. Allen, C. Wonkka, D. G. Angeler, D. A. Wedin, D. A., and D. Twidwell. 2019. Fire legacies in eastern ponderosa pine forests. *Ecology and Evolution* 9:1869–1879.
112. ◦ Keele, E. C., V. M. Donovan, C. P. Roberts, S. M. Nodskov, C. L. Wonkka, C. R. Allen, **L. A. Powell**, D. A. Wedin, D. G. Angeler, D. Twidwell. 2019. Relationships between a Burn

- Severity Gradient, Cavity-Nesting Birds and Habitat in Ponderosa Pine Forest. *American Midland Naturalist* 181:1-18.
111. * Hoppe, I. R., J. O. Harrison, E. Raynor IV, M. B. Brown, **L. A. Powell**, and R. Tyre. 2019. Temperature, wind, vegetation, and roads influence incubation patterns of greater prairie-chickens (*Tympanuchus cupido pinnatus*) in the Nebraska Sandhills, USA. *Canadian Journal of Zoology* 97: 91–99.
110. * Sliwinski, M., **L. A. Powell**, and W. Schacht. 2019. Grazing systems do not affect bird habitat on a Sandhills landscape. *Rangeland Ecology and Management* 72: 136–144.
109. * Sliwinski, M., **L. A. Powell**, W. Schacht, and M. Burbach. 2018. Factors influencing ranchers' intentions to manage for vegetation heterogeneity and promote cross-boundary management in the northern Great Plains. *Ecology and Society* 23(4):45. <https://doi.org/10.5751/ES-10660-230445>
108. * Snyman, A., E. J. Raynor IV, C. Chizinski, **L. A. Powell**, and J. Carroll. 2018. African lion (*Panthera leo*) space use in the Greater-Mapungubwe Transfrontier Conservation Area using Resource Utilization Functions. *African Journal of Wildlife Research* 48: 1-12.
107. * Sliwinski, M., M. Burbach, **L. A. Powell**, and W. Schacht. 2018. Ranchers' perceptions of vegetation heterogeneity in the Northern Great Plains. *Great Plains Research* 28: 185-197.
106. ◦ Khamcha, D., **L. A. Powell**, and G. A. Gale. 2018. Effects of roadside edge on nest predators and nest survival of Asian tropical forest birds. *Global Ecology and Conservation* 16: e00450.
105. ◦ Khamcha, D., R. T. Corlett, **L. A. Powell**, T. Savini, A. J. Lynam, and G. A. Gale. 2018. Road induced edge effects on a forest bird community in tropical Asia. *Avian Research* 9:20.
104. * Harrison, J. O., M. B. Brown, and **L. A. Powell**. 2018. Wild turkey (*Meleagris gallopavo*) parasitism of a greater prairie-chicken (*Tympanuchus cupido*) nest in Nebraska. *Grouse News* 55:8-11.
103. * McCollum, K. R., **L. A. Powell**, A. Snyman, M. Bomberger Brown, and J. Carroll. 2018. Kori Bustards (*Ardeotis kori*) respond to vegetation density and elevation in the Northern Tuli Game Reserve, Botswana. *Avian Conservation and Ecology* 13(1):13. <https://doi.org/10.5751/ACE-01191-130113>
102. Twidwell, D., C. Wonkka, CH. Bielski, C. Allen, D. Angeler, J. Drozda, A. S. Garmestani, J. Johnson, **L. A. Powell**, and C. P. Roberts. 2018. The perpetual state of emergency that sacrifices protected areas in a changing climate. *Conservation Biology* 32:905-915.
101. **Powell, L. A.**, R. Edwards, K. D. J. Powell, and K. Nieland. 2018. Geography of ecotourism potential in the Great Plains. *Great Plains Research* 28:15-24.
100. * Raynor, E. J., **L. A. Powell**, and W. H. Schacht. 2018. Present and future thermal environments available to Sharp-tailed Grouse in an intact grassland. *PloS One* 13.2 (2018): e0191233.
99. * Whalen, C., M. Bomberger Brown, J. McGee, **L. A. Powell**, and E. Walsh. 2018. Male Greater Prairie-Chickens adjust their vocalizations in the presence of wind turbine noise. *The Condor* 120:137-148.

98. Ejigu, D., A. Bekele, and **L. A. Powell**. 2017. Walia ibex have increased in number and shifted their habitat range within Simien Mountains National Park, Ethiopia. *Journal of Mountain Ecology*, 10:27-44.
97. *Raynor, E. J., C. E. Whalen, M. Bomberger Brown, and **L. A. Powell**. 2017. Location matters: evaluating Greater Prairie-Chicken (*Tympanuchus cupido*) boom chorus propagation. *Avian Conservation and Ecology* 12(2):17. doi: 10.5751/ACE-01126-120217
96. Steffensen, K. D., **L. A. Powell**, and M. A. Pegg. 2017. Using the robust design framework and relative abundance to predict the population size of pallid sturgeon *Scaphirhynchus albus* in the lower Missouri River. *Journal of Fish Biology* doi:10.1111/jfb.13457
95. *Harrison, J. O. M. Bomberger Brown, **L. A. Powell**, W. H. Schacht, and J. A. Smith. 2017. Nest site selection and nest survival of Greater Prairie-Chickens near a wind energy facility. *The Condor* 119(4):659-672.
94. *Smith, J. A., M. Bomberger Brown, J. O. Harrison, and **L. A. Powell**. 2017. Predation risk: a potential mechanism for effects of a wind energy facility on Greater Prairie-Chicken survival. *Ecosphere* 8(6).
93. *Raynor, E. J., C. E. Whalen, M. Bomberger Brown, and **L. A. Powell**. 2017. Grassland bird community and acoustic complexity appear unaffected by proximity to a wind energy facility in the Nebraska Sandhills. *The Condor* 119(3):484-496.
92. #**Powell, L. A.** 2017. Urban cowboys: demographics confirm that agriculture and natural resources recruiting plans cannot be one-size-fits-all. *NACTA Journal* 61:121-126.
91. *Whalen, C. E., M. Bomberger Brown, J. McGee, **L. A. Powell**, and E. J. Walsh. 2017. Acoustic characteristics of lekking male greater prairie-chicken (*Tympanuchus cupido pinnatus*) vocalizations. *Great Plains Research* 27:93-108.
90. **Powell, L. A.**, M. Bomberger Brown, J. A. Smith, J. Olney Harrison, and C. E. Whalen. 2017. Modeling the spatial effects of disturbance: a constructive critique to provide evidence of ecological thresholds. *Wildlife Biology* doi: 10.2981/wlb.00245.
89. *Haugen, M. T., M. P. Vrtiska, and **L. A. Powell**. 2017. Variation in number of ducks harvested among hunters in the Central Flyway. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 4:80-84
88. Pope, K. L., **L. A. Powell**, B. S. Harmon, M. A. Pegg, C. J. Chizinski. 2017. Estimating the number of recreational anglers for a given waterbody. *Fisheries Research* 191:69-75.
87. **Powell, L. A.**, U. Kazahe, and R. Kharuxab. 2017. Livestock farmers engage in ecotourism as a result of beliefs and attitudes toward wildlife on communal lands in Namibia. *Human Dimensions of Wildlife* 22:217-230.
86. *Cunningham, Z. J., **L. A. Powell**, and M. Vrtiska. 2016. Fidelity and Survival of Mallards in the Nebraska Sandhills. *Prairie Naturalist* 48:87-95.
85. *Dallmann, J. D., E. J. Raynor, L. C. Anderson, **L. A. Powell**, and Walter H. Schacht. 2016. iButton® Temperature Loggers Effectively Determine Prairie Grouse Nest Absences. *Great Plains Research* 26:117-123.
84. *Smith, J. A., C. E. Whalen, M. Bomberger Brown, and **L. A. Powell**. 2016. Indirect Effects of an Existing Wind Energy Facility on Lekking Behavior of Greater Prairie-Chickens. *Ethology* 122:419-429.

83. *Cunningham, Z., **L. A. Powell**, M. Vrtiska, S. Stephens, and J. Walker. 2016. Skewed age ratios of breeding mallards in the Nebraska Sandhills. *American Midland Naturalist* 175:280-285.
82. *Sliwinski, M. **L. A. Powell**, N. Koper, M. Giovanni, W. Schacht. 2015. Research design considerations to ensure detection of all species in an avian community. *Methods in Ecology and Evolution* 7:456-462.
81. Steffensen, K.D., **L. A. Powell**, M. Stukel, K. R. Winders, and W. J. Doyle. 2015. Updated assessment of hatchery-reared pallid sturgeon (*Forbes & Richardson, 1905*) survival in the lower Missouri River. *Journal of Applied Ichthyology* 32:3-10.
80. ◦ Kowalewski, L. K., C. Chizinski, **L. A. Powell**, K. L. Pope, and M. A. Pegg. 2015. Accuracy or Precision: Implications of Sample Design and Methodology on Abundance Estimation. *Ecological Modelling* 316:185-190.
79. *Hiller, T. L., J. S. Taylor, J. J. Lusk, **L. A. Powell**, and A. J. Tyre. 2015. Evidence that the conservation reserve program slowed population declines of pheasants on a changing landscape in Nebraska, USA. *Wildlife Society Bulletin* 39:529-535.
78. Winder, V. L., A. J. Gregory, C. A. Hagen, D. A. Haukos, D. C. Kesler, L. C. Larsson, T. W. Matthews, L. B. McNew, M. A. Patten, J. C. Pitman, **L. A. Powell**, J. A. Smith, T. Thompson, D. H. Wolfe, B. K. Sandercock. 2015. Factors affecting female space use in ten populations of prairie chickens. *Ecosphere* 6:9, art166. [*recipient of The Wildlife Society's 2016 Wildlife Publication Award*]
77. *Giovanni, M. D., **Powell, L. A.**, Schacht, W. 2015. Habitat selection and survival for western meadowlark fledglings in a contiguous prairie system. *Wilson Journal of Ornithology* 127: 200-211.
76. *Smith, J., Matthews, T. W., Holcomb, E. D., Negus, L. P., Davis, C. A., Brown, M., **Powell, L. A.**, Taylor, J. S. 2015. Invertebrate prey selection by ring-necked pheasant (*Phasianus colchicus*) broods in Nebraska. *American Midland Naturalist* 173:318-325.
75. ◦ Ejigu, D. A. Bekele, **L. A. Powell**, and J. -M. Lernould. 2015. Habitat preference of the endangered Ethiopian walia ibex (*Capra walie*) in the Simien Mountains National Park, Ethiopia. *Animal Biodiversity and Conservation*. 38: 1-10.
74. *Anderson, L., W. Schacht, **L. A. Powell**, J. Lusk, and W. Vodehnal. 2015. Greater Prairie-Chicken Brood Site Selection and Survival in the Nebraska Sandhills. *Journal of Wildlife Management* 79:559-569.
73. Pegg, M. A., K. L. Pope, **L. A. Powell**, K. C. Turek, J. J. Spurgeon, N. T. Stewart, N. P. Hogberg, and M. T. Porath. 2015. Lake and reservoir rehabilitations: seeking the fountain of youth. *Fisheries* 40:177-181.
72. **Powell, L. A.** 2015. Periodic corrections to agricultural land values provide opportunity for conservation. *Journal of Soil and Water Conservation* 70: 39A-44A.
71. **Powell, L. A.** 2015. Hitler's effect on wildlife in Nebraska: World War II and farmed landscapes. *Great Plains Quarterly* 35:1-26.
70. *Haugen, M., M. Vrtiska, and **L. A. Powell**. 2015. Duck species co-occurrence in hunter daily bags. *Wildlife Society Bulletin* 39:70-78.
69. *Haugen, M., M. Vrtiska, and **L. A. Powell**. 2015. The Effects of Harvest Regulations on Behaviors of Duck Hunters. *Human Dimensions of Wildlife* 20:15-29.

68. **Powell, L. A.**, W. H. Schacht, L. C. Anderson, W. L. Vodehnal. 2014. Management of Sandhills Rangelands for Greater Prairie-chickens. University of Nebraska Extension Circular: EC305. 20pp.
67. *Haugen, M., **L. A. Powell**, and M. Vrtiska. 2014. Assessment of Spatial Changes in the Duck Harvest within the Central Flyway, 1997-2011. *Wildfowl* 64:75-90.
66. Joubert, D. F., **L. A. Powell**, and W. Schacht. 2015. Visual obstruction as a method to quantify herbaceous biomass in southern African semi-arid savannas. *African Journal of Range & Forage Science* 32: 225-230. (pre-print published on-line 2014)
65. ◦ Jorgensen, C. F., **L. A. Powell**, J. J. Lusk, A. A. Bishop, and J. J. Fontaine. 2014. Assessing landscape constraints on species abundance: Does the neighborhood limit species response to local habitat conservation programs. *PLoS ONE* 9(6): e99339.
64. *Theron, L., S. vdM Louw, and **L. A. Powell**. 2013. Temporal and spatial composition of arboreal insects along the Omaruru River. *Roan News* (May 2013): 18-21.
63. *Matthews, T., R. Tyre, J. S. Taylor, J. Lusk, and **L. A. Powell**. 2013. Greater prairie-chicken nest success and habitat selection in southeastern Nebraska. *Journal of Wildlife Management* 77:1202-1212.
62. ◦ Jorgensen, C. F., R. J. Stutzman, L. C. Anderson, S. E. Decker, **L. A. Powell**, W. H. Schacht, and J. J. Fontaine. 2013. Choosing a DIVA: a comparison of emerging digital imagery vegetation analysis techniques. *Applied Vegetation Science* 16: 552–560.
61. **Powell, L. A.** 2012. Common-interest community agreements on private lands provide opportunity and scale for wildlife management. *Animal Biodiversity and Conservation* 35: 295-306.
60. ◦ Pracheil, B., M. Pegg, **L. A. Powell**, and G. Mestl. 2012. Swimways: Protecting Paddlefish Through Movement-Centered Management. *Fisheries* 37:449-457.
59. ◦ Groepper, S.R., M.P. Vrtiska, **L.A. Powell**, and S.E. Hygnstrom. 2012. Evaluation of the effects of September hunting seasons on resident Canada geese in Nebraska. *Wildlife Society Bulletin* 36:524–530.
58. *Henaux, V., **L. A. Powell**, M. Vrtiska, and K. Hobson. 2012. Establishing Winter Origins of Migrating Lesser Snow Geese Using Stable Isotopes. *Avian Conservation and Ecology* 7(1):5 [<http://dx.doi.org/10.5751/ACE-00515-070105>].
57. *Matthews, T. W., J. S. Taylor, and **L. A. Powell**. 2012. Mid-contract management of CRP grasslands provides benefits for ring-necked pheasant nest and brood survival. *Journal of Wildlife Management* 76: 1643-1652.
56. *Matthews, T. W., J. S. Taylor, and **L. A. Powell**. 2012. Ring-necked pheasant hens select managed CRP grasslands for nesting and brood-rearing. *Journal of Wildlife Management* 76: 1653- 1660.
55. *Barcelo, I., J. C. Guzman-Aranda, F. Chavez-Ramirez, and **L. A. Powell**. 2012. Rural inhabitant perceptions of sandhill cranes in wintering areas of northern Mexico. *Human Dimensions of Wildlife* 17:301-307.
54. Steffensen, K.D., **L. A. Powell**, and M. Pegg. 2012. Population size of hatchery-reared and wild pallid sturgeon in the lower Missouri River. *North American Journal of Fisheries Management* 32:159-166.

53. **Powell, L. A.**, M. D. Giovanni, S. Groepper, M. L. Reineke, and W. H. Schacht. 2012. Attendance patterns and survival of Western Meadowlark nests under video observation in the Nebraska Sandhills. *Studies in Avian Biology* 43:61-66.
52. ◦ Gregory, C. J., S. J. Dinsmore, **L. A. Powell**, and J. G. Jorgensen. 2012. Estimating the abundance of long-billed curlews in Nebraska. *Journal of Field Ornithology* 83:111-129.
51. ◦ Martin, D. R., **L. A. Powell**, and K. L. Pope. 2012. Habitat Selection by Adult Walleye during Spawning Season in Irrigation Reservoirs: A Patch Occupancy Modeling Approach. *Environmental Biology of Fishes* 93:589-598.
50. ◦ Gregory, C. J., S. J. Dinsmore, **L. A. Powell**, and J. G. Jorgensen. 2011. Nest survival of the Long-billed Curlew in Nebraska. *Wader Study Group Bulletin* 118:109-113.
49. **Powell, L. A.**, J. S. Taylor, J. J. Lusk, and T. W. Matthews. 2011. Using adaptive harvest management to gain information about harvest mortality of Greater Prairie-Chickens in southeast Nebraska. *Studies in Avian Biology* 39: 329-340.
48. *Matthews, T. W., A. J. Tyre, J. S. Taylor, J. J. Lusk, and **L. A. Powell**. 2011. Effects of spatial and temporal variables on Greater Prairie-Chicken brood habitat selection and survival. *Studies in Avian Biology* 39: 179-194.
47. *Schole, A. C., T. W. Matthews, **L. A. Powell**, J. J. Lusk, and J. S. Taylor. 2011. Survival of Greater Prairie-Chicken chicks in southeast Nebraska. *Studies in Avian Biology* 39: 247-254.
46. ‡ **Powell, L. A.**, A. J. Tyre, M. J. Conroy, J. T. Peterson, and B. K. Williams. 2011. Turning students into problem solvers: Integrating adaptive management into wildlife curricula. *The Wildlife Professional* 5(2): 74-76.
45. *Rehme, S. E., **L. A. Powell**, and C. R. Allen. 2011. Multimodel inference and adaptive management. *Journal of Environmental Management* 92:1360-1364.
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Books and Textbooks

- Powell, L. A.**, and J. P. Carroll, editors. 2024 (*contract, in prep*). *The Wildlife Techniques Manual*. John Hopkins University Press, Baltimore, MD.
- K. L. Pope and **L. A. Powell**, editors. 2021. *Harvest of fish and wildlife: new paradigms for sustainable management*. CRC Press, Boca Raton, Florida, USA.
- Powell, L. A.** 2020. *Principles for Management of Fisheries and Wildlife: the manager as decision-maker*. First Edition. 462pp. Cognella, San Diego, CA.
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- Powell, L. A.**, and G. A. Gale. 2015. *Parameter estimation for animal populations: a primer for the rest of us*. Caught Napping Publications, Lincoln, NE. ISBN: 978-1-329-06151-4 (19 chapters, also available for download on-line).
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Book Chapters

- Hiller, T. L., R. D. Applegate, and **L. A. Powell**. 2021. The social and political context of harvest management. Pages 23-38 in K. L. Pope and L. A. Powell, editors. *Harvest of fish and wildlife: new paradigms for sustainable management*. CRC Press, Boca Raton, Florida, USA.
- Kaemingk, M. A., M. P. Vrtiska, K. L. Hurley, and **L. A. Powell**. 2021. Linking social and ecological components to spatial and temporal components of harvest. Pages 39-54 in K. L. Pope and L. A. Powell, editors. *Harvest of fish and wildlife: new paradigms for sustainable management*. CRC Press, Boca Raton, Florida, USA.
- Smith, J., **L. A. Powell**, and M. Bomberger Brown. 2019. Training Wildlife Biologists for Work in the Anthroscapes, 6pp. *Encyclopedia of World's Biomes: Earth Systems and Environmental Sciences*. Elsevier.
- Powell, L.**, R. Kharuxab, L. Marker, M. Nghikembua, S. Omusula, R. Reid, A. Snyman, C. Weaver, and M. Wykstra. 2017. Coordination of large landscapes for cheetah conservation. Pages 239-250, *In Cheetahs: Biology and Conservation* (L. Marker, L. K. Boast, and A. Schmidt-Küntzel, eds.). Academic Press.
- Powell, L. A.** 2011. Characteristics of freehold conservancies in Namibia. Pages 45-52 in D. Shaw and L. Marker, eds. *The Conservancy Association of Namibia: an overview of freehold conservancies*. CANAM: Windhoek, Namibia. ISBN: 978-99945-71-96-3

Refereed Proceedings or Outreach Publications

- Powell, L. A., K. Powell, and K. Nieland. 2018. Guidelines for Ecotourism Operations in the Great Plains. School of Natural Resources, Lincoln, NE. Education Circular 27: 8pp.
- Sliwinski, M., M. Mark, L. A. Powell, and W. Schacht. 2017. Managing for Wildlife Habitat on Rangelands in the Great Plains. Lincoln, NE: School of Natural Resources, University of Nebraska-Lincoln. Open File Report 162: 6pp.
- Powell, L., W. Schacht, and L. Anderson. 2014. Management of Sandhills rangelands for greater prairie-chickens. Pages 58-66, *Proceedings of the 2014 Nebraska Grazing Conference, Kearney, 12-13 August 2014*.
- Anderson, L., W. Schacht, L. Powell, J. Lusk, and B. Vodehnal. 2011. Vegetation Structure and Composition at Greater Prairie-Chicken Nest and Brood Sites: Drivers for Success? *Proceedings of the 2011 Nebraska Grazing Conference, Kearney, 9-10 August 2011*.
- Schacht, W., and L. Powell. 2010. Managing grazinglands for upland game birds. *Proceedings of the 2010 Nebraska Grazing Conference, Kearney, August 2010*.

Book Reviews

- Powell, L. A. 2018. *Wild Spaces, Open Seasons: Hunting and Fishing in American Art*, edited Kevin Sharp. *Great Plains Quarterly* 38: 320.
- Powell, L. A. 2017. *Ecology and Conservation of Lesser Prairie-Chickens*, edited by Haukois and Boal. *Condor* 119:631-632.
- Powell, T. R., and L. A. Powell. 2013. *Owls by M. Taylor*. *Wilson Journal of Ornithology* 125: 854-855.

Research Featured or Reviewed In

- Raynor, E. J., L. A. Powell, and M. B. Brown. 2018. Evaluating Greater Prairie-Chicken vocalizations: assessing variation in lek vocalizations at an existing wind energy facility in Nebraska. *Grouse News* 55:12-14.
- Whalen, C., M. Bomberger Brown, J. McGee, L. A. Powell, J. A. Smith, and E. J. Walsh. 2014. What does a Greater Prairie-Chicken sound like? It's not your typical cock-a-doodle-doo!. *Acoustical Society of America: 168th Meeting*. <http://acoustics.org/what-does-a-greater-prairie-chicken-sound-like-its-not-your-typical-cock-a-doodle-doo-cara-whalen/>
- Joubert, D. F., L. A. Powell, and W. H. Schacht. Summary of scientific article: "Visual obstruction as a method to quantify herbaceous biomass in southern African semi-arid savannas". *Grassroots* 14(3):52.
- Marris, E. 2008. Cougar's movement betrayed by claw analysis: stable isotope analysis helps retrace animal's steps. *Nature*, 9 August 2008. <http://www.nature.com/news/2008/080809/full/news.2008.1021.html> (Henaux et al. 2008).
- Brooks, R., and D. J. Kemp. 2001. Can older males deliver the goods? *Trends in Ecology and Evolution* 16:308-313 (Beck and Powell 2000).
- Gee, H. 2000. Evolution: Sugar Daddy simulations. *Nature*, 16 February 2000. (*Science Update*). <http://imagine.nature.com/nsu/000217/000217-7.html> (Beck and Powell 2000).

Curricular Publications

- Powell, L. A. 2009. Implementing problem-based learning: *A real-life example of an in-class problem case: how to work through an exercise on the first day*. URL: http://snr.unl.edu/powell/teaching/pbl/pbl_web/index.htm
- Powell, L. A. 2009. Resource Management IV Study Guide. Polytechnic of Namibia: Department of Nature Conservation. Windhoek, Namibia. 60pp.

Creative Activities

- Poetry book: Powell, L. A. 2014. *Cursed with wings: and other frustrations*. Lincoln, Nebraska: Caught Napping Publications. 80pp. ISBN: 978-1-312-45118-6
- Blog: *A Land Ethic: life on the Great Plains. Ideas, perspectives, and observations from a wildlife ecologist*. >100 posts during 2010-present. <http://alandethic.blogspot.com/>
- Photography and poetry exhibit: *Beneath the Sand: a photojourney of our year in Namibia*. Larkin, Kelly, and Tristan Powell. 72 large-format photos with interpretation and poetry. Presented in 4 galleries in Nebraska and Iowa during 2010-2011.
- Poetry book: Powell, L. A., K. D. Powell, and T. R. Powell. 2010. *Dust and mud: perspectives from Namibia*. Lincoln, Nebraska: Lulu Publishing. 42pp. ISBN: 978-0-557-66873-1

Blog: *Nebraska to Namibia: from Sandhills to sand dunes*. 146 posts during 2009, describing family and professional sabbatical to Namibia.
<<http://namibiafulbright.blogspot.com/>>

Graduate Theses and Dissertations as Advisor or Co-Advisor

22. Wolske, J. 2022. Nonbreeding Season Survival and Habitat Selection of Northern Bobwhite in Northeastern Colorado. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE (co-advisor: Dr. Adam Behney).
21. Cristiano, D. 2022. An Investigation of the Attitudes and Behavioral Outcomes of Nebraskan Hunters Toward Tick-Borne Disease. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE.
20. Berger, D. 2020. Prairie Grouse Population Trends and their Historical Drivers in the Nebraska Sandhills. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. John Carroll).
19. Sliwinski, M. 2017. Heterogeneity of avian breeding habitat on grazing lands of the Northern Great Plains. PhD Dissertation, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. Walter Schacht).
18. Snyman, A. 2016. Assessment of resource use and landscape risk for African lions (*Panthera leo*) in eastern Botswana. PhD Dissertation, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. John Carroll).
17. McCollum, K.R. 2015. Occupancy analysis and density estimation of Kori Bustards (*Ardeotis kori*) and Helmeted Guineafowl (*Numida meleagris*) for use in landscape conservation planning in the Northern Tuli Game Reserve, Botswana. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. John Carroll).
16. Whalen, C. 2015. Effects of wind turbine noise on male greater prairie-chicken vocalizations and chorus. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. Mary Bomberger Brown).
15. Harrison, J. O. 2015. Assessment of disturbance effects of an existing wind energy facility on greater prairie-chicken (*Tympanuchus cupido pinnatus*) breeding season ecology in the Sandhills of Nebraska. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. Mary Bomberger Brown).
14. Haugen, M. T. 2013. The influence of regulations on duck hunters and harvest. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. Mark Vrtiska).
13. Barcelo, I. 2013. Winter ecology of sandhill cranes (*Grus canadensis*) in northern Mexico. PhD Dissertation, University of Nebraska-Lincoln, Lincoln, NE (co-advisor: Felipe Chavez-Ramirez).
12. Anderson, L. C. 2012. Nest and Brood Site Selection and Survival of Greater Prairie-Chickens in the Eastern Sandhills of Nebraska. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. Walter Schacht).
11. Corral, L. 2012. Swift fox survey assessment and estimation of detection probability. MS Non-Thesis Project, University of Nebraska-Lincoln, Lincoln, NE.
10. Cunningham, Z. J. 2011. Breeding fidelity and landscape effects on distribution of mallards and duck broods in the Nebraska Sandhills. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE. (co-advisor: Dr. Mark Vrtiska).

9. Theron, L. 2011. Temporal and spatial composition of arboreal insects along the Omaruru River, Namibia. MS Thesis, University of the Free State, Bloemfontein, South Africa.
8. Rehme, S. E. 2010. Ecology, stable isotopes, and management of grassland songbirds at National Park Service properties on the Great Plains. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE (co-advisor: Craig Allen).
7. Giovanni, M. D. 2009. Demographics and habitat selection for the western meadowlark (*Sturnella neglecta*) in the Nebraska Sandhills. PhD Dissertation, University of Nebraska-Lincoln, Lincoln, NE (co-advisor: Walter Schacht).
6. Matthews, T. 2009. Productivity and habitat selection of ring-necked pheasants and greater prairie-chickens in Nebraska. PhD Dissertation, University of Nebraska-Lincoln, Lincoln, NE (co-advisor: Drew Tyre).
5. Leavelle, K. M. 2008. Occupancy and associated habitat characteristics, fruit preferences, and nesting behaviors of the Blue-headed Quail-dove (*Starnoenas cyanocephala*) of Cuba. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE (Primary advisor: Felipe Chavez-Ramirez).
4. Frost, J. S. 2007. Small mammal and bird community composition in response to forest habitat structure and composition in the Niobrara River Valley, Nebraska. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE.
3. Kempema, S. L. F. 2007. The influence of grazing systems on grassland bird density, productivity, and species richness on private rangeland in the Nebraska Sandhills. MS Thesis, University of Nebraska-Lincoln, Lincoln, NE.
2. Post van der Burg, M. 2005. Factors affecting songbird nest survival and brood parasitism in the Rainwater Basin region of Nebraska. MS Thesis, University of Nebraska-Lincoln.
1. Kocer, C. 2004. Mesopredator movement, abundance, and habitat selection in the Rainwater Basins of Nebraska. MS Thesis, University of Nebraska-Lincoln.

Research Grants

\$7,894,763 (to date)

- Nebraska Game and Parks Commission, 2020, \$699,940: Pheasant Habitat Priorization (Investigator with Little, A. [PI], D. Tyre, J. Carroll, D. Twidwell, Y. Qi, and D. Uden).
- National Science Foundation, 2019, \$748,870: *Daasanach Pastoralism* (Investigator with M. Douglass, PI, and Y. Qi, Investigator).
- Colorado Parks and Wildlife, 2019, \$179,144: *Winter gamebirds in Colorado*.
- Nebraska Environmental Trust, 2020, \$21,355: *Protecting Tern and Plovers of Nebraska* (collaboration with M. Brown and M. Vrtiska).
- Multistate Hatch USDA, 2017, \$255,656. *NC1189: Assessing the social-ecological dynamics that contribute to ecosystem health and watershed resource management in Nebraska* (collaborator with C. Chizinski, J. Poletto, E. VanWormer, and M. Pegg).
- National Park Service, 2015, \$17,400. *CESU Great Plains Administrative Host Support*.
- Nebraska Game and Parks Commission, 2016, \$113,380. *Waterfowl Spatial Harvest Assessment*.
- Nebraska Game and Parks Commission, 2015, \$170,232. *Prairie Grouse and Grazing Lands in Nebraska*.

- Nebraska Game and Parks Commission, 2013, \$88,300. *Wind Energy and Prairie Grouse in Nebraska*. (co-PIs: Jennifer Smith and Mary Bomberger Brown).
- Nebraska Game and Parks Commission, 2013, \$174,289. *Landscape heterogeneity on grazing lands in Nebraska*. (co-PI: W. Schacht).
- Nebraska Game and Parks Commission, 2013, \$147,349. *Canid distribution and the potential impacts of energy development in Nebraska* (collaborator with J. Fontaine, lead PI).
- Nebraska Game and Parks Commission, 2012, \$598,000. *Persistent effects of wind energy development on prairie grouse*. (co-PI with J. Fontaine and M. Bomberger Brown; Collaborators: W. Schacht, L. Wolfenbarger, J. McCarty, E. Walsh, and C. Jeziersky).
- Nebraska Game and Parks Commission, 2011, \$91,119. *Waterfowl harvest information study*.
- Nebraska Game and Parks Commission, 2010, \$243,844. *Assessing landscape constraints on habitat management of upland birds*. (co-PI with J. Fontaine and T. Hiller).
- Nebraska Game and Parks Commission, 2010, \$139,650. *Improving breeding habitat for Greater-Prairie Chickens on grazed land in the Nebraska Sandhills* (co-PI: W. Schacht).
- National Science Foundation (IGERT), 2009, \$3,100,000. *Resilience and adaptive governance in stressed watersheds*. Collaborator with: S. Fritz (co-PI), L. Gunderson, A. Samal (co-PI), A. Tomkins (co-PI), J. Sendzimir, S. Goddard, S. Michaels, B. Tenhumberg, J. A. Williams, Jr., K. B. Williams, S. Zellmer, V. Zlotnik, K. Hoagland, E. Istanbuluoglu, G. Lynne, S. Thomas, D. Wedin, A. Tyre (Co-PI), and C. Allen (PI).
- UNL Research Council, 2009, \$6,300. *Human dimensions of grassland management decisions made by Namibian landowners*.
- Grassland Foundation/World Wildlife Fund, 2009, \$6,500. *A study of issues faced by private landowners in Namibia and the Great Plains: critical decisions made to support grasslands*.
- Fulbright Program, 2008, \$74,265. *Bush encroachment in Namibia: integrating Nature Conservation students in a survey to assess cultural biases of landowners faced with bush management decisions*.
- Nebraska Emergency Management Agency, 2008, \$29,967. *Risk assessment of Nebraska's communication towers*.
- Nebraska Game and Parks Commission, 2008, \$62,545. *Status and reproductive ecology of the Long-billed Curlew in Nebraska* (co-PI with S. Dinsmore and J. Jorgensen).
- Sampson Range and Pasture Management Endowment, 2007, \$20,000. *Using high-resolution, hyperspectral images to characterize vegetation cover on Sandhills prairie* (co-PI with W. Schacht and D. Rundquist).
- NPS/USGS, 2007, \$212,121. *Assessing local and regional variability in productivity and fidelity of grassland birds on NPS units in the Great Plains* (co-PI with C. Allen and K. Hobson).
- USDA-NRCS, 2007, \$70,935. *Use of state wildlife surveys to assess benefits of Farm Bill Program* (co-PI with R. Tyre).
- Nebraska Game and Parks Commission, 2007, \$68,084. *Greater prairie-chicken habitat selection* (co-PI with R. Tyre).
- Nebraska Game and Parks Commission, 2007, \$71,420. *Productivity and biology of ducks nesting in the Sandhills of Nebraska*.
- University of Nebraska Research Council, 2007, \$10,000. *Using stable isotope analyses of tissues to identify origins of diseased migratory waterfowl* (co-PI with A. Tyre, V. Hénaux, and D. Snow).

- Burlington Northern Endowment, 2006, \$8,660. *Effects of wetland habitat distribution on avian community structure and reproductive success in the Nebraska Sandhills* (co-PI with W. Schacht).
- Platte River Whooping Crane Maintenance Trust, 2006, \$100,000. *Sandhill crane roosting habitat assessment in the Platte River valley* (co-PI with F. Chavez-Rameriz).
- Platte River Whooping Crane Maintenance Trust, 2005, \$50,000. *Conservation status of the blue-headed quail-dove in Cuba* (transfer of funds to UNL from F. Chavez-Rameriz).
- Nebraska Game and Parks Commission, 2004, \$53,250. *Effects of grassland management on ring-necked pheasant habitat selection and productivity*.
- Sandhills Task Force, 2004, \$20,000. *Duck recruitment in the Nebraska Sandhills*. (Written with S. Stephens, M. Vrtiska, R. Heiniger, Co-PI's).
- Great Plains CESU (NPS), 2004, \$77,110. *Effects of red cedar removal on bird and small mammal populations in upland habitats of the Niobrara Valley*.
- Nebraska Game and Parks Commission, 2004, \$24,053. *Monitoring small mammal and songbird communities in the Niobrara Valley*.
- UNL Ag Research Division--Special Hatch Funds, 2004. \$12,654. *Drought effects on bird dispersal and disease transmission in Nebraska wetlands*.
- Great Plains CESU (NPS), 2003, \$35,000. *Effects of red cedar removal on bird populations in upland habitats of the Niobrara Valley*.
- Nebraska Game and Parks Commission, 2003, \$5,000. *Rainwater basin wetlands: mammalian predators of songbird nests*.
- Sampson Range and Pasture Management Endowment, 2003, \$15,000. *Quantifying effects of grazing in sandhills pastures on bird communities through a multi-scale approach to vegetation measurements* (Written with Walter Schacht, Agronomy and Horticulture Department, UNL).
- Louisiana Department of Wildlife and Fisheries, 2003, \$89,100. *Use of managed and mature hardwood stands by wood thrushes in the Atchafalaya Basin, Louisiana* (Written with David Krementz, University of Arkansas as PI).
- UNL Research Council (John C. and Nettie V. David Memorial Trust Fund), 2002, \$6,891. *Wildlife ecology and analytical chemistry: establishing fidelity of wood thrushes to a Georgia breeding site through evaluation of stable isotopes in tail feathers*.
- USDA Sustainable Agriculture Research and Education Graduate Student Award, North Central Region, 2002. \$10,000. *Comparing sustainability of grazing in the Nebraska sandhills: which regime is best for cattle and wildlife?* (Written with Matt Proett, M.S. R.A.).
- Layman Fund, University of Nebraska, 2002. \$10,000. *Breeding bird and mammalian predator populations in Rainwater Basin wetlands: can landscape factors predict abundance, productivity, and movement dynamics?*
- Nebraska Game and Parks Commission, 2002, \$18,000, *Comparing sustainability of grazing in Nebraska's Sandhills: which regime is best for wildlife?*
- UNL Research Council, 2001, \$9,800, *Breeding bird and mammalian predator populations in Rainwater Basin wetlands: can landscape factors predict abundance, productivity, and movement dynamics?*
- Sandhills Task Force, 2001, \$45,000, *Comparing sustainability of grazing in Nebraska's Sandhills: which regime is best for wildlife?*

- Sampson Range and Pasture Management Endowment, 2001, \$10,000, *Comparing sustainability of grazing in Nebraska's Sandhills: which regime is best for wildlife?* (written by Dr. Ron Johnson)
- US Fish and Wildlife Service, 2001, \$9,700, *Effects of forest fragmentation on natal dispersal of wood thrushes and red-bellied woodpeckers*
- United States Geological Survey, 2000, \$4,000, *Songbird population modeling.*
- US Fish and Wildlife Service, 2000, \$5,000, *Aerial telemetry relocation of dispersing peregrine falcon juveniles*
- Iowa College Foundation, 1999, \$2,465, *Faculty Research Grant: Aerial telemetry relocation of dispersing peregrine falcon juveniles.*
- Dubuque Racing Association, 1999, \$13,000, *Ornithological field/laboratory equipment* (written with Dr. Richard Cowart).
- Iowa Department of Natural Resources, 1999, \$3,147, *Small mammal and herpetological survey of White Pine Hollow State Preserve.*
- United States Geological Survey, 1999, \$4,000, *Songbird population modeling.*
- National Fish and Wildlife Foundation, 1995, \$54,000 (wood thrush graduate research, written with Dr. Michael Conroy, Dr. David Krentz, and Jason Lang).
- Georgia Ornithological Society Graduate Student Research Grant, 1995, \$750 (wood thrush graduate research).

Teaching Grants

\$879,969 (to date)

- Mamo, M., J. A. Ippolito, T. A. Kettler, and D. L. McCallister (PI's). 2005. Broadening soil science education through on-line lessons. \$74,869. National Science Foundation: Educational Materials Development. Role: grant collaborator, module development).
- Powell, L. A., Merchant, J., Walter-Shea, E., Johnson, R., and Zanner, W. 2002. Integrating Geospatial Information Technologies into Natural Resources Curricula. \$5,100. UNL Teaching, Learning, and Technology Roundtable. Role: team leader.
- University of Dubuque. 2001. Renovation of Goldthorp Science Hall. \$800,000. U.S. Department of Education, Office of Postsecondary Education, Fund for the Improvement of Postsecondary Education. Role: chair of grant committee, developed in association with Cassidy and Associates.

Courses Taught as Professor

University of Nebraska:

NRES 024 Natural Resources Professional Development Experience: Animal Care

NRES 233 Wildlife Field Techniques (Fall)

NRES 235 Independent Fisheries and Wildlife Field Techniques (online)

NRES 311 Wildlife Ecology and Management (Spring)

NRES 880 Vertebrate Population Analysis (Spring of even years)

NRES 492 Natural Resources Study Tour

-Namibia: Wildlife Conservation (*team-taught*; 2011, 2013, 2015, 2017, 2019)

-Boundary Waters Wilderness Ecology (*team-taught*; last offered in 2007)

-Puerto Rico Tropical Ecology (*team-taught*, last offered in 2008)

NRES 101 Natural Resources Orientation (Fall, last offered in 2018)

NRES 312 Introduction to Geospatial Information Sciences (last offered in 2007)
NRES 404 Senior Seminar (every 3 years; last offered in 2010)
NRES 433/833 Wildlife Management Techniques (Fall, last offered in 2019)
NRES 862 Conservation Biology (last offered in 2002)

Polytechnic of Namibia (during 2009 professional development leave):

Natural Resource Management (3rd-year students)
Research Methodology (4th-year students)
Ecology II (1st-year students)

University of Dubuque:

Full courses: General Ecology, Ornithology, Fisheries/Wildlife Management and Conservation (*team-taught*), General Zoology, Biological Science, Comparative Vertebrate Anatomy & Embryology, GIS Applications (*team-taught*), Introduction to Environmental Research (*team-taught*), Ecology of the Mississippi (*team-taught*)
Seminars/Field Trip Courses: Boundary Waters Wilderness Ecology (*team-taught*), Evolution of Human Reproductive Behavior, Applied Energy Conservation, GIS Applications, Freshman Seminar

Courses Taught as Adjunct Instructor

Brenau University: Wildlife Management; *Iowa State University:* Bird Study

Courses Taught as Teaching Assistant

Iowa State University: Ornithology, Bird Study, Ecology, Vertebrate Biology, Wildlife Management

University of Georgia: Ecological Basis of Environmental Issues, Estimation of Population Parameters (graduate-level)

Present Position Description

Director and Professor, School of Natural Resources, University of Nebraska-Lincoln; 2023-present.

- 100% administrative position, coordinating and promoting all aspects of the land-grant mission within the School (72 faculty members)
- Leadership and oversight of all Natural Resources programming and initiatives

Previous Position Descriptions

Professor; Animal Ecologist/Conservation Biologist, School of Natural Resources, University of Nebraska-Lincoln; 2001-present.

- Tenure-track, 12-month faculty position: 10% teaching/40% research (*FTE was 60/40 from 2001-2016 and 50/50 from 2017-2019*).
- Hired as Assistant Professor: July 2001. Tenured/promoted: July 1, 2005. Fully promoted: July 1, 2010. Graduate Faculty Member, effective 25 October 2001.
- Teach courses in wildlife ecology and management, parameter estimation, and conservation biology.
- Conduct graduate research, with emphasis on conservation and management issues, and wildlife population dynamics.

Associate Dean for Experiential Learning, Dr. Tiffany Heng-Moss (Dean), College of Agricultural Sciences and Natural Resources; 2020-2023 (0.5 FTE).

- Facilitate experiential learning opportunities within the College, support faculty efforts to integrate experiential learning in courses, integrate global experiences into on-campus and in-country student opportunities, develop micro-credentialing opportunities for students, and provide training in active learning and reflective teaching.

Co-Coordinator, Curriculum Development Team, College of Agricultural Sciences and Natural Resources, University of Nebraska-Lincoln (0.50 FTE 2018-2019)

- Design curriculum and coordinate a large team engaged with a donor-driven mission to create the Rwandan Institute for Conservation Agriculture
- In-depth leadership and coordination including classroom design with architecture team, experiential learning integration on student farms, compilation of Rwandan accreditation materials, learning objectives and course structure development from chemistry to soils, and faculty recruiting and hiring.

Director, Great Plains Cooperative Ecosystem Studies Unit; Institute of Agricultural Sciences and Natural Resources and School of Natural Resources, University of Nebraska-Lincoln; 2011-2019 (~10% FTE).

- Coordinate communication with the host institution (UNL), partner institution, federal agencies, and the national CESU office.
- Maintain web site and post requests for Letters of Interest and RFPs.
- Recruit new partner institutions and federal agencies; Supervise supporting staff.

Interim Associate Director, School of Natural Resources, Dr. Tala Awada (Interim Director), University of Nebraska-Lincoln; 2012-2013 (0.50 FTE during Aug. 2012-March 2013).

- Provide oversight of the Student Services Area in SNR and supervise 4 associated staff. Provide leadership for undergraduate and graduate education and assessment in SNR.
- Assist the Director with leadership, vision, unit planning, and administrative oversight for SNR. Mentor junior faculty.

Interim Associate Dean, Agricultural Research Division, Dr. Archie Clutter (Dean), University of Nebraska-Lincoln; 2011-2012 (0.50 FTE during Sept. 2011-June 2012).

- Facilitate team-building and large grant development within ARD.
- Support IANR 2025 initiatives and action items.

Assistant Professor; Vertebrate Ecologist, Dr. Robert Miller (Chair, retired), Department of Biology, University of Dubuque, Dubuque, Iowa; 9/1998-8/2001.

- Tenure-track faculty position.
- Teach ecology, GIS applications, ornithology, wildlife management, zoology, and comparative vertebrate anatomy courses with field or computer laboratories.
- Conduct undergraduate research, with emphasis on terrestrial vertebrate ecology, demography, and population dynamics.

Postdoctoral Research Assistant, Dr. Michael Conroy (supervisor), USGS Coop Unit, School of Forest Resources, University of Georgia, Athens, Georgia; 1/1998-8/1998.

- Georgia resident Canada Goose survival/movement analysis.
- Spatial model development; yearly population survey design for Georgia DNR.
- Implementation of adaptive management program.

Graduate Research Assistant, Dr. Michael Conroy (advisor), Dr. David Kremetz (co-advisor), USGS Coop Unit, School of Forest Resources, University of Georgia, Athens, Georgia; 8/1993-12/1997.

- Neotropical migrant songbird field research, data analysis, GIS database creation, and simulation modeling. Field work: radio telemetry, mist netting/banding, nest searching/monitoring, transect surveys, GPS use, and vegetation measurements at the Piedmont National Wildlife Refuge (Mr. Ronnie Shell, manager).
- Basic Aircraft Safety training and 35 hours of aerial telemetry.
- Hired and supervised (April-August) field crews of 6-8 persons/year.
- Georgia resident Canada Goose survival/movement analysis.
- Maintenance of computer hardware and software, Federal vehicles.

Instructor, Dr. John Dittmer (Chair), Department of Biology, Brenau University, Gainesville, Georgia; summer sessions 1997-1998 (part time).

- Designed and implemented Wildlife Management course.

GIS Technician, Dr. Liz Kramer (supervisor), Institute of Ecology, University of Georgia; 3/1997-12/1997 (part time).

- Watershed research using UNIX-based ARC/INFO system.

Teaching Assistant, Drs. Michael Conroy, James Porter, and Gary Barrett (retired), Institute of Ecology, University of Georgia; 1995-96.

- Instructed discussion, computer, and field labs.
- Maintained computer and audio/visual equipment in lecture hall.

Instructor, Dr. James Dinsmore (retired), Dept. of Animal Ecology, Iowa State University, Ames, Iowa; 1993.

- Taught ornithology lab, maintained laboratory, and catalogued specimens.

Conference Coordinator, Ms. Wendy Brock (retired), Iowa Youth and 4-H State Office, Iowa State University, Ames, Iowa 3/1993-8/1993.

- Planned activities and logistics for 4-H youth conference, 1500 attendees.

Graduate Research Assistant, Dr. William Clark (Advisor), Dept. of Animal Ecology, ISU, Ames, Iowa; 1/1992-12/1992.

- Analyzed waterfowl banding and recovery data; .
- Banded waterfowl in Canada with US and Canadian FWS.
- Maintained computer equipment and presented computer ed. workshops.

Graduate Teaching Assistant, Drs. James Dinsmore (retired) and William Clark, Dept. of Animal Ecology, ISU, Ames, Iowa; 6/1990-12/1991.

- Taught lectures and labs, prepared and graded homework and exams.

Student Laboratory Assistant, Dr. Nicholas Hartwig (retired), Dept. of Science and Mathematics, Graceland College, Lamoni, Iowa; 1988-90.

- Prepared lab exams and assisted in Zoology Laboratory.
 - Catalogued slide collection, maintained laboratories and green house.

Wildlife Conservation Aide, Mr. Jack Coffee (deceased), Iowa Dept. of Natural Resources, Rathbun Wildlife Unit, Russell, Iowa; 5/1989-8/1989.

- Assisted with Canada Geese banding, conducted wildlife surveys.
- Planted food plots, assisted with wetland and lake management.

Editor, Graceland TOWER newspaper, Dr. Jon Wallace (retired), Graceland College; 1988.

- Maintained staff of ten student journalists.
- Wrote news, features and editorials; photography; typeset; laid-out copy.
- Wrote proposal that obtained new computer, Laser Printer and software.

Nature Staff, Iowa 4-H Camping Center, Dr. Jim Pease (mentor), Iowa State University; Summers, 1987-88.

- Planned and directed camping programs for ages 8-adult.
- Taught rappelling, teams course, archery, backpacking, and canoeing.
- Trained as trip leader to Boundary Waters Canoe Area Wilderness.

Certificates and Training

Teaching and Educational Administration

- National Society for Experiential Education, Academy certification: Fundamentals of Experiential Education, Principles of Ethical Practice, Reflection, Assessment, Legal Issues, Online Learning and Experiential Education (completed November 2020)

Research

- Institutional Animal Care and Use; IACUC general training, University of Nebraska-Lincoln, CITI (September 2020)
- Institutional Review Board; IRB CITI basic training (January 2020)

Professional Service

College/University

- Biennial Undergraduate Degree Program Assessment Peer Review Committee, College of Agricultural Sciences and Natural Resources, 2018-2023.
- Board of Governors, Center for Great Plains Studies, 2014-2017, 2017-2020.
- College of Arts and Sciences' Chairs and Directors Group, 2012-2013.
- Peer-Review of Teaching program facilitator, UNL, 2011-2012.
- Institute of Agriculture/Natural Resources: Liaison Committee, 2010-2011.
- UNL Graduate Studies: Graduate Teaching Assistant Award Selection Committee, 2008.
- Peer-Review of Teaching program participant, UNL, 2007-2008.
- Recruitment and Retention Committee, College of Ag Sciences and Natural Resources, UNL, 2004-2008.
- Dean's Faculty Advisory Committee, College of Ag Sciences and Natural Resources, UNL, 2003-2006.
- Peer-Review of Teaching program participant, UNL, 2003-2004.
- University of Dubuque CORE Curriculum Development Committee, 1999-2001.
- University of Dubuque Title III Grant Cell Team Member, 1999-2000.
- Chair, Goldthorp Hall Renovation Faculty Committee, University of Dubuque, 1998-01.
- Pre-med Task Force, University of Dubuque, 1998.

School/Department

- Chair, Social Committee, School of Natural Resources, 2013-2020.
- Coordinator, Applied Ecology Faculty Group, School of Natural Resources, 2005-2008, 2013-2017, 2018.
- Fisheries and Wildlife major curriculum committee, School of Natural Resources, 2001-present.
- Chair, Faculty Advisory Committee, School of Natural Resources, 2013-2016.
- Ex-officio (as Assoc. Director) member of Staff Professional Development Committee, Faculty Advisory Committee, and Graduate Committee, 2012-2013.
- Co-chair, SNR Director Search Advisory Committee, 2011-2013.
- Coordinator, Fisheries and Wildlife major (UNL), 2004-2011.
- Representative, Natural Resources Undergraduate Curriculum Committee, School of Natural Resources, UNL, 2004-2011.
- Promotion and Tenure Committee, School of Natural Resources, 2005-2008.
- *Ad hoc* Communications Committee, School of Natural Resources, UNL, 2003.
- Environmental Science Curriculum Development Committee, Univ. Dubuque, 1999-2001.
- Chair, coordinating committee, 1997 Graduate Student Research Symposium, Institute of Ecology, University of Georgia (2 days, 48 presentations).
- Seminar series coordinator, Department of Animal Ecology, Iowa State University, 1992.

Community

- Conservation Committee Member, Audubon Spring Creek Prairie, Lincoln, NE, 2021-2022.
- Board of Directors, Grassland Foundation, Lincoln, NE, 2011-2013.
- Board of Directors, Catfish Creek Coalition, Dubuque, Iowa. 1998-2000.

Profession

- Conference Coordinator, Biennial Conference for University Education in Natural Resources (University of Nebraska-Lincoln, host), March 23-24, 2022.
- Member, IUCN SSC Galliformes Specialist Group 2021-2025.
- Secretary, College and University Education Working Group, The Wildlife Society, (2018-2022).
- At-Large Board Member, Nebraska Chapter of The Wildlife Society (2009-2011, 2021-2022).
- Program review team:
 - Upper Iowa University Department of Biology (2021, chair)
 - University of Minnesota Department of Fisheries, Wildlife, and Conservation Biology (2018, chair)
 - Iowa State University Department of Natural Resource Management (2015, chair)
- Chair, College and University Education Working Group, The Wildlife Society, (2014-2016, Chair-Elect: 2012-2014, Past Chair: 2016-2018).
- Instructor, Conservation Leaders for Tomorrow (2008-2012).
- Central States (US) Board Representative, College and University Education Working Group, The Wildlife Society (2011-2013).
- Vice-President, Midwest Fish and Wildlife Conference Board of Directors, Nebraska (2008-present).
- Student Chapter Co-Advisor, The Wildlife Society (UNL Student Chapter; Wildlife Club; 2001-2017).
- The Wildlife Society: Biometrics Working Group, At-large Board Member (2007-2008)
- Associate Editor for Forest Science (*Society of American Foresters*), 2004-2007.
- Co-chair, Science Advisory Workgroup, Nebraska Partnership for All-Bird Conservation, 2002-present.
- Steering Committee, 2006 Midwest Fish and Wildlife Conference (Omaha), 2003-2006.

CliftonStrengths: [*Interpretation Site \(follow link\)*](#)

- | | |
|----------------------|-----------------|
| 1. Individualization | 6. Relator |
| 2. Learner | 7. Intellection |
| 3. Connectedness | 8. Analytical |
| 4. Strategic | 9. Positivity |
| 5. Achiever | 10. Ideation |

Professional Memberships/Activity

- The Wildlife Society (national and Nebraska chapters)
- American Ornithological Society
- University Educators in Natural Resources