

CURRICULUM VITAE

ERIC CHARLES HELLGREN

hellgren@ufl.edu

Fellow – The Wildlife Society

EDUCATION:

Ph.D. Wildlife Science	Virginia Tech University	1988
M.S. Wildlife Science	Texas A&M University	1984
B.S. Fishery and Wildlife Biology (Highest Honors)	Colorado State University	1982
Fellow of The Wildlife Society		2015
Lifetime Member of The Wildlife Society		2022

EMPLOYMENT:

Professor, Department of Wildlife Ecology and Conservation
University of Florida (8/2025-present),

Professor and Chair, Department of Wildlife Ecology and Conservation
University of Florida (8/2013-8/2025)

Plan and implement actions that fulfill the research, teaching, and extension missions of the Department, IFAS, and University of Florida; Oversee department of 10 administrative staff, 30 faculty, 90 graduate students, and >220 undergraduate majors. Annual budget of approximately \$7.5 million in state appropriations and \$4 million in external grants and contracts

Director, Cooperative Wildlife Research Laboratory
Professor, Department of Zoology

Southern Illinois University–Carbondale (9/2005-8/2013)

Plan and implement actions that fulfill the research and graduate training mission of the Cooperative Wildlife Research Laboratory, an interdisciplinary research laboratory and training facility with laboratory and office infrastructure and personnel including 6 faculty and research scientists, 25-40 graduate assistants, administrative staff, research technicians, and undergraduate student workers; 75% administrative/research appointment, 25% teaching appointment. Annual budget: \$500,000 state appropriation, \$1.0-\$1.4 million grants and contracts

Professor (7/02-8/05); Associate Professor (Tenured; 7/99-6/02); Assistant Professor (8/95-6/99): Oklahoma State University, Department of Zoology

Assistant and Associate Professor (Promoted 6/93, Tenured 6/95) - 1/89 - 8/95

Employer: Caesar Kleberg Wildlife Research Institute, Department of Animal and Wildlife Sciences, Texas A&M University-Kingsville

Research Associate - September 1988 - December 1988

Employer: Dept. Fisheries and Wildlife Sciences, Virginia Tech University

Original research on reproductive biology and physiology of female black bears.

Ph.D. Graduate Research Assistant - August 1984 - August 1988 (VPISU)

Dissertation Title: Ecology and physiology of a black bear (*Ursus americanus*) population in Great Dismal Swamp and reproductive physiology in the captive female black bear. 231pp.

M.S. Graduate Research Assistant - September 1983 - August 1984 (Texas A&M)

M.S. Graduate Research Fellow - September 1982 - August 1983

Thesis Title: The Effect of Diet and Season on Selected Parameters of the Reproductive Physiology of the Collared Peccary (*Tayassu tajacu*). 112 pp.

TEACHING:

Undergraduate Courses:

Wildlife Nutritional Ecology (Zool 440) – SIU Carbondale

Comparative Physiology (Zool 433/PHSL 433a) – SIU Carbondale

Game Mammals (Zool 463) – SIU Carbondale

Zoology Senior Seminar (Zool 482) – Southern Illinois University (SIU) Carbondale

Mammalian Physiology (ZOOL4215) - Oklahoma State University

Mammalian Physiology Laboratory (ZOOL4222) - Oklahoma State University

Endocrinology (ZOOL4283)= Oklahoma State University

Physiology (ZOOL 3204) - Oklahoma State University

Physiology Seminar (ZOOL4231)- Oklahoma State University

Wildlife Management Techniques - RWM 310- Texas A&M University-Kingsville

Graduate Courses:

Wildlife Seminar (Zool 588) – Southern Illinois University–Carbondale

Population Ecology (course) (ZOOL5163–3 credits) Oklahoma State University

Population Ecology - PVA (ZOOL 5010 – Graduate Seminar) Oklahoma State University

Applied Population Ecology (ZOOL 5010–Graduate Seminar) OSU

Advanced Herpetology (ZOOL 5112) Oklahoma State University (team-taught)

Digestive Ecology and Physiology (ZOOL5010 – Graduate Seminar) OSU

Ecological Energetics (ZOOL5010 – Graduate Seminar) Oklahoma State University

Wildlife Nutrition - RWM 571 Texas A&M University-Kingsville,

BOOK CHAPTERS AND CONTRIBUTIONS:

Servello, F. A., **E. C. Hellgren**, and S. R. McWilliams. 2005. Techniques for wildlife nutritional ecology. Pages 554-590 in C. Braun, editor. Research and management techniques for wildlife and habitats. The Wildlife Society, Bethesda, Maryland

Hellgren, E. C., and J. A. Bissonette. 2003. Collared peccary. Pages 867-876 in G. A. Feldhamer and B. Thompson, editors. Wild mammals of North America: biology, management, and economics. Second edition. The John Hopkins University Press, Baltimore, Maryland, USA.

Onorato, D. P., and **E. C. Hellgren**. 2001. Black bear at the border: Natural recolonization of the Trans-Pecos. Pages 245-259 in D. S. Maehr, R. Noss, and J. Larkin, editors. Large Mammal Restoration: Ecological And Sociological Challenges In The 21st Century. Island Press.

Hellgren, E. C., and M. R. Vaughan. 2000. Ecology, conservation, and management of black bears in the Great Dismal Swamp. Pages 199-208 in R. K. Rose, editor. The natural history of the Great Dismal Swamp. Omni Press, Madison, Wisconsin, USA.

Hellgren, E. C., and R. L. Lochmiller. 1999. Collared peccary. Pages 429-446 in S. Demarais and P. R. Krausman, editors. Ecology and Management of Large Mammals in North America. Prentice-Hall, Inc., Upper Saddle River, New Jersey.

Lochmiller, R. L., and **E. C. Hellgren**. 1992. Reproduction of collared peccaries (*Tayassu tajacu*). Pages 313-322 In W. C. Hamlett, ed. Reproductive biology of South American vertebrates. Springer-Verlag, New York.

REFEREED PUBLICATIONS:

151. Boone, W. W. IV, A. A. Albrecht, J. R. Conrad, C.J. Lechowicz, E. C. Hellgren, and R. A. McCleery. 2022. Shrub encroachment of freshwater wetland threatens persistence of endemic insular wetland rodent. Journal of Mammalogy. <https://doi.org/10.1093/jmammal/gyac058>
150. Juarez-Sanchez, D., J. G. Blake, and **E. C. Hellgren**. 2019. Variation in Neotropical river otter (*Lontra longicaudis*) diet: Effects of an invasive prey species. PLOS One DOI:10.1371/journal.pone.0217727.
149. Holland, A. J., E. M. Schaubert, C. K. Nielsen, and **E. C. Hellgren**. 2019. River otter and mink occupancy dynamics in riparian systems. Journal of Wildlife Management 83:1552-1564. DOI: 10.1002/jwmg.21745.
148. Holland, A. J., E. M. Schaubert, C. K. Nielsen, and **E. C. Hellgren**. 2019. Occupancy dynamics of semi-aquatic herbivores in riparian systems in Illinois, USA. Ecosphere: e02614. 17 pp. DOI 10.1002/ecs2.2614
147. Holland, A. J., E. M. Schaubert, C. K. Nielsen, and **E. C. Hellgren**. 2018. Stream community richness predicts apex predator occupancy dynamics in riparian systems. Oikos 127:1422-1436. <https://onlinelibrary.wiley.com/doi/pdf/10.1111/oik.05085>
146. Ramakrishnan, S., A. J. Wolf, **E. C. Hellgren**, R. J., Moody, and V. Bogosian. 2018. Diet selection by an ant specialist in an urban system bereft of preferred prey. Journal of Herpetology 52:79-85. <http://www.journalofherpetology.org/doi/pdf/10.1670/16-072>

145. van der Merwe, J., and **E. C. Hellgren**. 2016. Spatial variation in trophic position of small mammals in wetlands: Support for hydrological drivers. *Ecosphere* 7(11): e01567. 10.1002/ecs2.1567
144. van der Merwe, J., **E. C. Hellgren**, and E. M. Schaubert. 2016. Variation in metapopulation dynamics of a wetland mammals: the effect of hydrology. *Ecosphere* 7(3):e01275. 10.1002/ecs2.1275.
143. Cooney, S. A., E. M. Schaubert, and **E. C. Hellgren**. 2015. Comparing permeability of matrix cover types for the marsh rice rat (*Oryzomys palustris*). *Landscape Ecology* 30: 1307-1320. DOI:[10.1007/s10980-015-0185-5](https://doi.org/10.1007/s10980-015-0185-5).
142. Cooney, S. A., E. M. Schaubert, and **E. C. Hellgren**. 2015. Ranging behavior of marsh rice rats in a southern Illinois wetland complex. *Journal of Mammalogy* 96:732-741. doi: 10.1093/jmammal/gyv069
141. Lesmeister, D. B., C. K. Nielsen, E. M. Schaubert, and **E. C. Hellgren**. 2015. Spatial and temporal structure of a mesocarnivore guild in midwestern North America. *Wildlife Monographs* 191. <http://onlinelibrary.wiley.com/doi/10.1002/wmon.1015/epdf>
140. Smith, J. B., C. K. Nielsen, and **E. C. Hellgren**. 2015. Suitable habitat for recolonizing large carnivores in the midwestern United States. *Oryx* 50(3):555-564 (2016) <http://dx.doi.org/10.1017/S0030605314001227>.
139. Wolf, A. J., **E. C. Hellgren**, E. M. Schaubert, V. Bogosian III, R. T. Kazmaier, D. C. Ruthven III, and R. W. Moody. 2014. Variation in vital-rate sensitivity between populations of Texas horned lizards. *Population Ecology* 56:619-631. DOI 10.1007/s10144-014-0450-5.
138. Limb, R. F., D. M. Engle, A. L. Alford, and **E. C. Hellgren**. 2014. Plant community response following removal of *Juniperus virginiana* from tallgrass prairie: Testing for restoration limitations. *Rangeland Ecology and Management* 67:397-405. DOI: 10.2111/REM-D-13-00147.1
137. Smith, J. B., C. K. Nielsen, and **E. C. Hellgren**. 2014. Illinois resident attitudes toward recolonizing large carnivores. *Journal of Wildlife Management* 78:930-943. DOI: 10.1102/jwmg718.
136. Wolf, A. J., **E. C. Hellgren**, V. Bogosian, III, and R. W. Moody. 2013. Effects of habitat disturbance on Texas horned lizards: an urban case study. *Herpetologica* 69:265-281.
135. Gillen, C.A., and **E. C. Hellgren**. 2013. Effects of forest composition on trophic relationships among mast production and mammals in central hardwood forest. *Journal of Mammalogy* 94: 417-426.

134. Croteau, E. K., E. J. Heist, C. K. Nielsen, J. R. Hutchinson, and **E. C. Hellgren**. 2012. Microsatellites and mitochondrial DNA reveal regional population structure in bobcats (*Lynx rufus*) of North America. Conservation Genetics online (DOI 10.1007/s10592-012-0416-0)
133. Bogosian, V. III, **E. C. Hellgren**, and R. W. Moody. 2012. Assemblages of amphibians, reptiles, and mammals on an urban military base in Oklahoma. Southwestern Naturalist 57:278-285.
132. Bogosian, V. III, **E. C. Hellgren**, M. W. Sears, and R. W. Moody. 2012. High-resolution niche models via a correlative approach: comparing and combining correlative and process-based information. Ecological Modeling 237-238: 63-73.
131. Alford, A. L., **E. C. Hellgren**, R. Limb, and D. M. Engle. 2012. Experimental tree removal in tallgrass prairie: variable responses of flora and fauna along a woody cover gradient. Ecological Applications 22:947-958.
130. Eubanks, B. W., **E. C. Hellgren**, J. R. Nawrot, and R. D. Bluett. 2011. Habitat associations of the marsh rice rat (*Oryzomys palustris*) in freshwater wetlands of southern Illinois, USA. Journal of Mammalogy 92:552-560.
129. Cooper, J. D., P. M. Waser, **E. C. Hellgren**, T. M. Gabor, and J. A. DeWoody. 2011. Is sexual monomorphism a predictor of polygynandry? Evidence from a social mammal, the collared peccary (*Pecari tajacu*). Behavioral Ecology and Sociobiology 65:75-85.
128. **Hellgren, E. C.**, and T. J. Polnaszek. 2011. Survival, habitat selection, and body condition of the woodchuck (*Marmota monax*) across an urban-rural gradient. American Midland Naturalist 165:150-161.
127. Onorato, D. P., M. Criffield, M. Lotz, M. Cunningham, R. McBride, E. H. Leone, O. L. Bass, and **E. C. Hellgren**. 2011. Habitat selection by critically endangered Florida panthers across the diel period: implications for land management and conservation. Animal Conservation 14:196-205 (online DOI:10.1111/j.1469-1795.2010.00415.x)
126. Cooper, J. D., P.M. Waser, D. Gopurenko, **E.C. Hellgren**, T.M. Gabor, and J.A. DeWoody. 2010. Measuring sex-biased dispersal in social mammals: comparisons of nuclear and mitochondrial genes in collared peccaries. Journal of Mammalogy 91:1413-1424.
125. Limb, R. F., D. M. Engle, A. L. Alford, and **E. C. Hellgren**. 2010. Tallgrass prairie plant community dynamics along a canopy cover gradient of eastern redcedar (*Juniperus virginiana* L.) Rangeland Ecology and Management 63:638-644.
124. Walter, W. D., D. M. Leslie, Jr., **E. C. Hellgren**, and D. M. Engle. 2010. Identification of subpopulations of North American elk (*Cervus elaphus* L.) using multiple lines of

- evidence: compositional analysis, microhistology, and stable isotopes. *Ecological Research* 25:789-800 (online DOI 10.1007/s11284-010-0709-z).
123. Criffield, M. A., **E. C. Hellgren**, and D. M. Leslie, Jr. 2010. Density estimation and survey validation for swift fox (*Vulpes velox*) in the Oklahoma Panhandle. *Acta Theriologica* 55:53-60.
 122. Cooper, J. D. R. Vitalis, P. M. Waser, D. Gopurenko, **E. C. Hellgren**, T. M. Gabor, and J.A. DeWoody. 2010. Quantifying male-biased dispersal among social groups in the collared peccary (*Pecari tajacu*) using analyses based on mtDNA variation. *Heredity* 104:79-87.
 121. **Hellgren, E. C.**, A. L. Burrow, R. T. Kazmaier, and D. C. Ruthven, III. 2010. The effects of winter burning and grazing on resources and survival of Texas horned lizards in a thornscrub ecosystem. *Journal of Wildlife Management* 74: 300-309.
 120. Van Den Bussche, R. A., J. B. Lack, D. P. Onorato, L. C. Gardner-Santana, B. R. McKinney, J. D. Delgadillo Villalobos, M. Chamberlain, D. White, and **E. C. Hellgren**. 2009. Mitochondrial DNA phylogeography of black bears (*Ursus americanus*) in central and southern North America: Conservation implications. *Journal of Mammalogy* 90:1075-1082.
 119. Criffield, M. A., M. V. Reichard, **E. C. Hellgren**, D. M. Leslie, Jr., and K. Freel. 2009. Parasites of swift fox (*Vulpes velox*) in the Oklahoma Panhandle. *Southwestern Naturalist* 54:494-500.
 118. Ganguli, A. C., D. M. Engle, **E. C. Hellgren**, and P. M. Mayer. 2008. Plant community diversity and composition provide little resistance to *Juniperus* encroachment. *Botany* (formerly Canadian Journal of Botany) 86:1416-1426.
 117. Wack, C. L., S. F. Fox, **E. C. Hellgren**, and M. B. Lovern. 2008. Effects of season, age, and season on plasma steroids in free-ranging Texas horned lizards (***Phrynosoma cornutum***). *General and Comparative Endocrinology* 155:589-596.
 116. Disney, M. R., **E. C. Hellgren**, C. A. Davis, D. M. Leslie, Jr., and D. M. Engle. 2008. Mesopredator abundance and size of oak patches in the cross timbers ecoregion. *Southwestern Naturalist* 53:214-223.
 115. Bales Lyda, S., **E. C. Hellgren**, and D. M. Leslie, Jr. 2007. Diurnal habitat selection and home-range size of female black bears in the Ouachita Mountains of Oklahoma. *Proceedings of the Oklahoma Academy of Science* 87:55-64.
 114. Downey, P. J., **E. C. Hellgren**, A. Caso, S. Carvajal, and K. Frangioso. 2007. Hair snares for noninvasive sampling of felids in North America: Do gray foxes affect success? *Journal of Wildlife Management* 71:2090-2094.

113. Endriss, D. A. **E. C. Hellgren**, S. F. Fox, and R. W. Moody. 2007. Demography of an urban population of the Texas horned lizard (*Phrynosoma cornutum*) in central Oklahoma. *Herpetologica* 63:320-331.
112. Ilse, L. M., and **E. C. Hellgren**. 2007. Indirect interactions among dendrophages: Porcupines predispose pinyon pines to bark beetle attack. *Forest Ecology and Management* 242:217-226.
111. **Hellgren, E. C.**, and D. C. Ruthven, III. 2007. Progeny sex ratio in a sexually monomorphic ungulate, the collared peccary (*Tayassu tajacu*). *Journal of Mammalogy* 88:124-128.
110. **Hellgren, E. C.**, S. L. Bales, M. Gregory, D. M. Leslie, Jr., and J. D. Clark. 2007. Testing a Mahalanobis distance model of black bear habitat use in the Ouachita Mountains of Oklahoma. *Journal of Wildlife Management* 71:924-928.
109. Onorato, D. P., **E. C. Hellgren**, R. A. Van Den Bussche, D. L. Doan-Crider, and J. R. Skiles, Jr. 2007. Genetic structure of American black bears in the desert southwest of North America: conservation implications for recolonization. *Conservation Genetics* 8:565-576 (Published online 28 Sep 2006).
108. Bales, S. L., **E. C. Hellgren**, D. M. Leslie, Jr., and J. Hemphill. 2005. Dynamics of a recolonizing population of black bears in the Ouachita Mountains of Oklahoma. *Wildlife Society Bulletin* 33:1342-1351.
107. Horncastle, V. J., **E. C. Hellgren**, P. M. Mayer, A. C. Ganguli, D. M. Engle, and D. M. Leslie, Jr. 2005. Implications of invasion by *Juniperus virginiana* on small mammals in the southern Great Plains. *Journal of Mammalogy* 86:1144-1155.
106. Moeller, B. A., **E. C. Hellgren**, D. C. Ruthven, III, R. T. Kzmaier, and D. R. Synatzske. 2005. Temporal differences in activity patterns of male and female Texas horned lizards, *Phrynosoma cornutum*, in southern Texas. *Journal of Herpetology* 39:336-339.
105. Parsons, J. L., **E. C. Hellgren**, E. E. Jorgensen, and D. M. Leslie, Jr. 2005. Neonatal growth and survival of rodents in response to variation in maternal dietary nitrogen: life-history strategy vs. dietary niche. *Oikos* 110:297-308.
104. Clark, J. E., **E. C. Hellgren**, J. L. Parsons, E. E. Jorgensen, D. M. Engle, and D. M. Leslie, Jr. 2005. Nitrogen outputs of small mammals from fecal and urine deposition: implications for nitrogen cycling. *Oecologia* 144:447-455.
103. Mitchell, S. F., D. P. Onorato, **E. C. Hellgren**, J. R. Skiles, and L. A. Harveson. 2005. Winter ecology of American black bears in a desert montane island. *Wildlife Society Bulletin* 33:164-171.

102. Clark, J. E., **E. C. Hellgren**, E. E. Jorgensen, and D. M. Leslie, Jr. 2005. Population dynamics of harvest mice (*Reithrodontomys fulvescens* and *Reithrodontomys montanus*) across a nitrogen-amended landscape. *American Midland Naturalist* 154:240-252.
101. **Hellgren, E. C.**, D. P. Onorato, and J. R. Skiles, Jr. 2005. Dynamics of a black bear population within a desert metapopulation. *Biological Conservation* 122:131-140.
100. Harveson, L. A., F. S. Guthery, and **E. C. Hellgren**. 2004. Invertebrate consumption by breeding northern bobwhites and its relation to production. *The Southwestern Naturalist* 49:472-477.
99. Onorato, D. P., **E. C. Hellgren**, R. A. Van Den Bussche, and J. R. Skiles, Jr. 2004. Paternity and relatedness of American black bears recolonizing a desert montane island. *Canadian Journal of Zoology* 82:1201-1210.
98. Horncastle, V.J., **E. C. Hellgren**, P. M. Mayer, D. M. Engle, and D. M. Leslie, Jr. 2004. Differential consumption of Eastern redcedar (*Juniperus virginiana*) by avian and mammalian guilds: Implications for tree invasion. *American Midland Naturalist* 152:255-267.
97. Kasparian, M. A, **E. C. Hellgren**, S. M. Ginger, L. P. Levesque, J. E. Clark, D. M. Engle, and D. L. Winkelman. 2004. Population characteristics of Virginia opossum in the cross timbers during raccoon reduction. *American Midland Naturalist* 151: 154-163.
96. Onorato, D. P., **E. C. Hellgren**, R. A. Van Den Bussche, and D. L. D. Crider. 2004. Phylogeographic patterns within a metapopulation of black bears (*Ursus americanus*) in the American Southwest. *Journal of Mammalogy* 85:140-147.
95. Onorato, D. P., **E. C. Hellgren**, F. S. Mitchell, and J. R. Skiles, Jr. 2003. Home range and habitat use of American black bears on a desert montane island. *Ursus* 14: 120-129.
94. Clark, J. E., J. L. Parsons, **E. C. Hellgren**, E. E. Jorgensen, and D. M. Leslie, Jr. 2003. Nitrogen concentration of stomach contents as an index of dietary nitrogen for hispid cotton rats (*Sigmodon hispidus*). *Journal of Mammalogy* 84:1399-1409.
93. Clark, J. E., **E. C. Hellgren**, E. E. Jorgensen, S. J. Tunnell, D. M. Engle, and D. M. Leslie, Jr. 2003. Population dynamics of hispid cotton rats (*Sigmodon hispidus*) across a nitrogen-amended landscape. *Canadian Journal of Zoology* 81:994-1003.
92. Woods, H. A., II, and **E. C. Hellgren**. 2003. Seasonal changes in the physiology of male Virginia opossums (*Didelphis virginiana*): Signs of the dasyurid semelparity syndrome? *Physiological and Biochemical Zoology* 76:406-417.
91. Ginger, S.M., **E. C. Hellgren**, M. A. Kasparian, L. P. Levesque, D. M. Engle, and D. M. Leslie, Jr. 2003. Niche shift by Virginia opossum following reduction of a putative competitor, the raccoon. *Journal of Mammalogy* 84:1279-1291.

90. Clark, J. E., **E. C. Hellgren**, and E. E. Jorgensen. 2003. Catastrophic decline of a high-density population of cotton rats (*Sigmodon hispidus*) in central Oklahoma. The Southwestern Naturalist 48:467-471.
89. Kazmaier, R. T., **E. C. Hellgren**, and D. C. Ruthven, III. 2002. Home range and dispersal of Texas tortoises, *Gopherus berlandieri*, in a managed thornscrub ecosystem. Chelonian Conservation and Biology 4:488-496.
88. Kasparian, M. A., **E. C. Hellgren**, and S. M. Ginger. 2002. Food habits of the Virginia opossum during raccoon removal in the cross timbers ecoregion, Oklahoma. Proceedings of the Oklahoma Academy of Sciences 82:73-78.
87. James, J. B., **E. C. Hellgren**, and R. E. Masters. 2002. Landscape correlates of wildlife-related power outages at electrical substations. Wildlife Society Bulletin 30:148-155.
86. Burkepile, N. A., D. G. Hewitt, G. L. Waggener, M. F. Small, and **E. C. Hellgren**. 2002. Effects of methyl parathion on white-winged dove productivity and reproductive behavior. Journal of Wildlife Management 66:202-211.
85. Kazmaier, R. T., **E. C. Hellgren**, Rutledge, J. C., and D. R. Synatzske. 2001. Mark-Recapture analysis of population parameters in a Texas Tortoise (*Gopherus berlandieri*) population in southern Texas. Journal of Herpetology 35:410-417.
84. Burrow, A. L., R. T. Kazmaier, **E. C. Hellgren**, and D. C. Ruthven, III. 2001. Microhabitat selection by Texas horned lizards in southern Texas. Journal of Wildlife Management 65:645-652.
83. Kazmaier, R. T., **E. C. Hellgren**, and D. C. Ruthven, III. 2001. Habitat selection by the Texas tortoise in a managed thornscrub ecosystem. Journal of Wildlife Management 65:653-660.
82. Kazmaier, R. T., **E. C. Hellgren**, and D. R. Synatzske. 2001. Patterns of behavior in *Gopherus berlandieri*: A multivariate ordination approach. Canadian Journal of Zoology 79:1363-1371.
81. Ilse, L. M., and **E. C. Hellgren**. 2001. Demographic and behavioral characteristics of North American Porcupines (*Erethizon dorsatum*) in pinyon-juniper woodlands of Texas. American Midland Naturalist 146:329-338.
80. Kazmaier, R. T., **E. C. Hellgren**, Ruthven, D. C., III, and D. R. Synatzske. 2001. Effect of grazing on demography and growth of the Texas tortoise. Conservation Biology 15:1091-1101.
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73. James, J. B., **E. C. Hellgren**, and R. E. Masters. 1999. Effects of deterrents on avian abundance and nesting density in electrical substations in Oklahoma. *Journal of Wildlife Management* 63:1009-1017.
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59. Wilber, P. G., **E. C. Hellgren**, and T. M. Gabor. 1996. Coccidia of the collared peccary (*Tayassu tajacu*) in southern Texas with descriptions of three new species of Eimeria (Apicomplexa: Eimeriidae). *Journal of Parasitology* 82: 624-629.
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55. Doan-Crider, D. L., and **E. C. Hellgren**. 1996. Population characteristics and winter ecology of black bears in Coahuila, Mexico. *Journal of Wildlife Management* 60:398-407.
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19. Lochmiller, R. L., **E. C. Hellgren**, and W. E. Grant. 1987. Physical characteristics of neonate, juvenile, and adult collared peccaries (Tayassu tajacu angulatus) from South Texas. *Journal of Mammalogy* 68: 188-194.

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11. Lochmiller, R. L., **E. C. Hellgren**, L. W. Varner, L. W. Greene, M. S. Amoss, Jr., S. W. J. Seager, and W. E. Grant. 1985. Physiological responses of the male collared peccary (Tayassu tajacu: Tayassuidae) to severe nutritional restriction. *Comparative Biochemistry and Physiology* 82A: 49-58.
10. Lochmiller, R. L., **E. C. Hellgren**, P.G. Hannon, W. E. Grant, and R. M. Robinson. 1985. Coccidioidomycosis (Coccidoides immitis) in the collared peccary (Tayassu tajacu: Tayassuidae) in Texas. *Journal of Wildlife Diseases* 21:305-309.
9. Lochmiller, R. L., **E. C. Hellgren**, W. E. Grant, and L. W. Varner. 1985. Bone fat and kidney fat indices of condition in collared peccaries. *Journal of Mammalogy* 66:790-795.
8. Lochmiller, R. L., **E. C. Hellgren**, and W. E. Grant. 1985. Relationships between internal morphology and body mass in the developing nursling collared peccary, Tayassu tajacu (Tayassuidae). *Growth* 19:154-166.

7. **Hellgren, E. C.**, R. L. Lochmiller, and W. E. Grant. 1984. Demographic morphologic, and reproductive status of a herd of collared peccaries (Tayassu tajacu) in south Texas. American Midland Naturalist 112:402-407.
6. **Hellgren, E. C.**, R. L. Lochmiller, M. W. Thomas, and W. E. Grant. 1984. Cyclopia, congenital limb deformity, and osteomyelitis in the collared peccary (Tayassu tajacu). Journal of Wildlife Diseases 20:354-357.
5. **Hellgren, E. C.**, R. L. Lochmiller, and W. E. Grant. 1984. Infection of captive adult collared peccaries, Dicotyles tajacu (Woodburne 1968), with the nematode Ascaris suum (Goeze 1782). Proceedings of the Helminthological Society of Washington 51:160-161.
4. Lochmiller, R. L., **E. C. Hellgren**, R. M. Robinson, and W. E. Grant. 1984. Techniques for collecting blood from collared peccaries. Journal of Wildlife Diseases 20:47-50.
3. Lochmiller, R. L., **E. C. Hellgren**, and W. E. Grant. 1984. Sex and age characteristics of the collared peccary pelvic girdle. Journal of Wildlife Management 48:639-641.
2. Lochmiller, R. L., **E. C. Hellgren**, and W. E. Grant. 1984. Selected aspects of collared peccary (Dicotyles tajacu) reproductive biology in a captive Texas herd. Zoo Biology 3:145-149.
1. Lochmiller, R. L., **E. C. Hellgren**, L. W. Varner, and W. E. Grant. 1984. Electrophoretic characterization of the serum proteins of the collared peccary (Tayassu tajacu). Comp. Biochem. Physiol.(A) 79B:569-575.

BOOK REVIEWS

Hellgren, E. C. 2003. The life of Brian: McNab's synthesis of physiological ecology. Review of McNab, B. M. 2002. The physiological ecology of vertebrates: a view from energetics. Ecology 84:537-538 (book review)

SYMPOSIA PROCEEDINGS

Hellgren, E. C., D. J. Austen, D. A. Haukos, J. R. Mawdsley, J. F. Organ, and B. K. Williams. 2016. Barriers and Bridges in connecting natural resource science and management. Transactions of the 81st North American Wildlife and Natural Resources Conference. Pittsburgh, PA.

Burrow, A. L., R. T. Kazmaier, **E. C. Hellgren**, and D. C. Ruthven, III. 2002. The effects of burning and grazing on survival, home range, and prey dynamics of the Texas horned lizard in a thornscrub ecosystem. Pages 43-51 in W. M. Ford, K. R. Russell, and C. E. Moorma, editors. The role of fire in nongame wildlife management and community restoration: traditional uses and new directions proceedings of a special workshop. USDA Forest Service Northeastern Research Station General Technical Report NE-288.

Hellgren, E. C. 1999. Reproduction of feral swine. Pages 67-69 *in* Proceedings of the Feral Swine Symposium, Texas Animal Health Commission.

Hellgren, E. C. 1994. Prickly-pear cactus (*Opuntia* spp.) and its use by wildlife. Pages 87-93 *in* P. Felker and J. R. Moss, eds. Proceedings - 5th Annual Prickly Pear Council, Kingsville, TX.

Hellgren, E. C. 1993. Biology of feral hogs (*Sus scrofa*) in Texas. Pages 50-58 *in* C. W. Hanselka and J. F. Cadenhead, eds., Feral swine: a compendium for resource managers. Texas Agric. Ext. Service, Texas A&M Univ.. 169pp.

Hellgren, E. C., and D. S. Maehr. 1993. Habitat fragmentation and black bears in the eastern United States. East. Workshop Black Bear Res. and Manage. 11:154-166.

Hellgren, E. C. and M. R. Vaughan. 1987. Home range and movements of winter-active black bears in the Great Dismal Swamp of Virginia and North Carolina. Proc. Int. Conf. Bear Res. and Manage. 7: 227-234.

PROFESSIONAL ACTIVITIES:

Executive Committee – National Association of University Fisheries and Wildlife Programs (NAUFWP) – Secretary-Treasurer 2018-2025

Editorial Service:

Editor-in-Chief – Wildlife Monographs (2007-2017)

Associate Editor – Journal of Mammalogy (2002-2005)

Associate Editor – Journal of Wildlife Management (1998-2001)

Editor (Wildlife) – Southeastern Association of Fish and Wildlife Agencies (1996-1997)

Associate Editor – International Bear Association - 10th proceedings (1995)

Professional Society:

Member: The Wildlife Society - 1983-present; American Society of Mammalogists - 1985-present; Society for Conservation Biology - 1991-2003; International Bear Association - 1986, 1992-2002.

Member: Illinois Chapter – The Wildlife Society, President 2012-2013, Councilperson-at-large, 2007-2009

Member: Oklahoma Chapter – The Wildlife Society -1995-2005 (Treasurer 2003-2005)

Member: Texas Chapter - The Wildlife Society - 1989-1996 (Chairman - Site Selection Committee - 1990; Chairman - Student Affairs Committee – 1995; Secretary-Treasurer - 1993-94, 1991-92; Cottam Award Committee - 1992-3; Program Committee – 1994)

Member: Virginia Chapter - The Wildlife Society - 1987-89

Member: Colorado Chapter - The Wildlife Society - 1980-82

Member: Phi Kappa Phi and Phi Beta Kappa, National Honor Societies, 1981-present

COMMITTEES:

University-level:

Graduate Council – SIU-Carbondale 2007-2010

Vice-Chair: 2008-2009

Chair: 2009-2010

Chair, University Outstanding Scholar Selection Committee, 2007-2008

Institutional Animal Care and Use Committee, Oklahoma State University, member, 2000-2003.

Sigma XI, OSU Chapter, Membership Committee, 1998-2000 (chair: 1999-2000).

Student Affairs and Learning Resources Committee, 2001-2005.

Library Advisory Committee - Oklahoma State University, 1998-2001.

College-level:

PreMedical Committee - College of Arts and Sciences, Oklahoma State University, 1996-2005t

Departmental-level:

Graduate Committee, (2006-2010)– Department of Zoology, SIU–C

Chair – 2006-2007

Advisory Committee (2005-2008, 2011-present)– Department of Zoology, SIU–C

Chair – 2005-2006

Graduate Committee- Department of Zoology, Oklahoma State University, 1998-2005 (Chair, 2000-2001)

Seminar Committee- Department of Zoology, Oklahoma State University, 1996-98 (Chair: 1997-98)

Search Committee (chair) – Wildlife ecologist - Department of Zoology, Oklahoma State University- 2001.

Search Committee - Integrative Physiologist/Toxicologist - Department of Zoology, Oklahoma State University- 1996.

Texas A&M University-Kingsville:

Texas A&M University-Kingsville - Piper Teaching Award Committee - 1992-5;

Institutional Animal Care and Use Committee - 1994-1995.

Department of Animal and Wildlife Science - Curriculum Committee - 1992

Caesar Kleberg Wildlife Research Institute Curriculum Committee - 1991

Caesar Kleberg Wildlife Research Institute Tenure Committee - 1991

Texas A&I University Graduate Council Program Review Committee - 1990-91

TAIU College of Agriculture/Home Ec Research Development Committee - 1989-90

TAIU College of Agriculture/Home Ec Thesis Guideline Committee - 1989

Other:

Planning Committee - VII International Conference on Bear Research and Management, Williamsburg, VA. - 1986

School of Forestry and Wildlife Resources - VPISU - School Graduate and Research Committee graduate student representative 1986-1988

Department of Fisheries and Wildlife Sciences VPISU - Graduate Student Representative to Faculty Meetings 1987-1988

GRADUATE STUDENTS, Chair or Co-Chair of Advisory Committee (n=43):

Completed Graduate Students (12 Ph.D., 31 M.S.):

Arevalo, Boris Miguel. 2021. Nesting ecology and habitat selection of scarlet macaws (*Ara macao cyanoptera*) in Belize. PhD. Dissertation, University of Florida. 115 pp. (Current position (10/2021): barevalo@wcs.org; Assistant Country Director – Belize, Wildlife Conservation Society).

Antonio Diego Juarez Sanchez. 2017. Variation in Neotropical river otter (*Lontra longicaudis*) diet: effects of an invasive prey species. MS Thesis, University of Florida, Gainesville. 64 pp.

Holland, Angela Jackson. 2016. Bridging aquatic and terrestrial ecosystems: Ecology of semi-aquatic mammals in southern Illinois. Ph. D. Dissertation, Southern Illinois University Carbondale, Carbondale, Illinois. 229 pp. (Current position 6/22: Assistant Professor CT; Department of Entomology and Wildlife Ecology, University of Delaware)

Van der Merwe, J. (*Garrie, J.*). 2014. Ecology of the marsh rice rat (*Oryzomys palustris*) in southern Illinois: Wetland dynamics, metapopulations, and trophic position. Ph. D. Dissertation, Southern Illinois University Carbondale, Carbondale, Illinois. 76 pp. (Current position: Associate Professor, Department of Biological Sciences, Arkansas Tech University but moved to Montana in January 2023. Her husband transferred in USFS)

Smith, J. B. (co-chair with C. K. Nielsen). 2013. Recolonization of the Midwestern United States by large carnivores: habitat suitability and human dimensions. M. S Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 127 pp. (Wolf Coordinator, Washington Department of Fish and Wildlife: (360) 902-2477; Cell: (360) 790-1029; Julia.Smith@dfw.wa.gov)

Wolf, A. J. 2012. Spatial and demographic ecology of Texas horned lizards within a conservation framework. M. S, Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 114pp. (Conservation Scientist with Scenic Hudson <http://scenichudson.org/ourwork>)

Edmund, A. C. 2011. Relationships among tree-species composition, vegetation structure, and forest breeding birds in southern Illinois. M. S. Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 131pp. (Biology Instructor, John A Logan College, Carterville, IL)

Gillen, C. A. 2011. Effects of forest composition on trophic relationships among mast production and mammals in southern Illinois. M. S. Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 117pp. (8/2015: Assistant Ecological Consultant, Caledonian Conservation, Scotland, UK <http://www.caledonianconservation.co.uk/about/?s=carolyn-gillen>; Outstanding M.S.

student, CWRL, 2011; Winner- Kudo Memorial Award, Outstanding MS Thesis in Department of Zoology, 2010-2011))

Duncan, S. L. 2011. Habitat associations of grassland and shrubland bird communities at reclaimed surface mines in southern Illinois. M. S. Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 148pp. (Current position: Biologist, project leader – Midwest Reclamation Resources, Inc, Murphysboro, IL)

Bogosian, Victor III. 2010. Habitat niche modeling in the Texas horned lizard (*Phrynosoma cornutum*): applications to planned translocation. Ph. D. Dissertation, Southern Illinois University Carbondale, Carbondale, Illinois. 177 pp. (vicbogosian@gmail.com; Current position: Natural Resource Manager, vic.bogosian@pokagonband-nsn.gov, Pokagon Band of Potawatomi, Michigan PO Box 180 • 58620 Sink Road, Dowagiac, MI 48620; (269) 462-4247 desk • (269) 783-9313 mobile)

Eubanks, B. W. 2010. Status and distribution of the state-threatened marsh rice rat (*Oryzomys palustris*) in Illinois. M. S. Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 127 pp. (current position: Natural Resources Specialist, Illinois Department of Natural Resources, Bryan.Eubanks@illinois.gov)

Alford, Aaron L. 2009. Eastern redcedar encroachment in southern Great Plains grasslands: wildlife consequences and management implications. Ph.D. Dissertation, Southern Illinois University Carbondale, Carbondale, Illinois. 172 pp. (Winner- Kudo Memorial Award, Outstanding Dissertation in Department of Zoology, 2009-2010) (current position: tenure-track Associate Professor at Des Moines Community College, Iowa))

Lippmann, K. 2009. The effect of urbanization on flight initiation distance and alert behaviors of woodchucks. M.S. Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 72 pp. (current position (9/10): Louis Berger Group, Wildlife Biologist, klippmann@louisberger.com, Needham, MA, 781-707-7422)

Denton, J.C. 2009. Current and projected nest site availability for cavity-nesting waterfowl in the upper Mississippi River and Great Lakes region. M.S. Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 145 pp. (co-chair with Charlotte Roy; current position: District Biologist, Georgia DNR; cell 870-952-0176)

Wakamiya, S. M. 2008. A habitat and population viability analysis for potential peregrine falcon reintroductions in southern Illinois. M.S. Thesis, Southern Illinois University Carbondale, Carbondale, Illinois. 85 pp. (co-chair with Charlotte Roy; Winner – Kudos Award for Outstanding Thesis in Department of Zoology, 2008-2009; current position: San Francisco Bay Area Inventory and Monitoring Network, National Park Service)

Endriss, Deborah A. 2006. Ecology of an urban population in Texas horned lizards

(*Phrynosoma cornutum*) in central Oklahoma. M.S. Thesis, Oklahoma State University, Stillwater. 141 pp (co-chair with Stanley Fox; current position – biologist with environmental consulting firm in Houston, Texas).

Criffield, M. A. 2005. Density estimates, survey methods, and parasites of swift fox in Oklahoma. M.S. Thesis, Oklahoma State University, Stillwater. 81 pp. (current position: Biologist, Florida Fish and Wildlife Conservation Commission)

Downey, P. 2005. Hair-snare survey to assess distribution of margay (*Leopardus wiedii*) inhabiting El Cielo Biosphere Reserve, Tamaulipas, Mexico. M. S. Thesis, Oklahoma State University, Stillwater, 45 pp. (current position: Oil and Gas Specialist, Oklahoma Corporation Commission and Instructor at Rose State College).

Disney, M. R. 2005. Mesopredator abundance in oak forest patches: a comparison of scent station and live-trapping techniques. M. S. Thesis, Oklahoma State University, Stillwater, 92pp. (current position: Cartographer, USFWS Partners in Fish and Wildlife, Arlington, TX (as of 26 Nov 2007); prior: Predator/Furbearer/Projects Biologist, Arizona Game and Fish Department, Phoenix, Arizona).

Moeller, B. A. 2004. Conservation ecology of the Texas horned lizard (*Phrynosoma cornutum*): Comparative effects of summer and winter burning. M.S. Thesis, Oklahoma State University, Stillwater. (Beth Bendik – Conservation Ecologist, Texas Parks and Wildlife Department)

Bales Lyda, S. L. 2003. Population dynamics and habitat ecology of black bears in the Ouachita Mountains of Oklahoma. M.S. Thesis, Oklahoma State University, Stillwater. (Current position: Researcher, Oklahoma Cooperative Fish and Wildlife Research Unit)

Horncastle, V. J. 2003. Associations of eastern redcedar and small mammal community structure in the Oklahoma Crosstimbers. M.S. Thesis, Oklahoma State University, Stillwater. 94pp. (Most recent position: Research Associate, Northern Arizona University, 08/2016)

Clark, J. E. 2003. Atmospheric deposition of nitrogen and nitrogen cycling: Links to the small mammal community? Ph. D. Dissertation, Oklahoma State University, Stillwater. (Named outstanding Ph.D. student, Department of Zoology, 2002-2003; Recipient of 2001-2003 Presidential Fellowship for Water, Energy, and The Environment for the Environmental Institute) (Current position: musician and postdoctoral researcher, University of Tennessee; instructor-Maryville College)

Onorato, D. P. 2003. Conservation ecology of a metapopulation of black bears in the Big Bend Ecosystem. Ph. D. Dissertation, Oklahoma State University, Stillwater. (Graduate Research Excellence Award – Biological Sciences Group – Ph.D.). (Current position: Research Scientist, Florida Panther Project, Florida Fish and Wildlife Conservation Commission)

Wilson, J. 2002. Ecotoxicological risks to rodent communities inhabiting abandoned petrochemical landfarms. Ph.D. Dissertation, Oklahoma State University, Stillwater (co-chair with D. Janz). 181pp. (Current position: Professor, Department of Biology, University of Nebraska – Omaha)

Woods, H. 2002. Seasonal changes in the physiology of the male Virginia opossum (*Didelphis virginiana*): Signs of the dasyurid semelparity syndrome? M.S. Thesis, Oklahoma State University, Stillwater. 71pp.(Current position: Biologist, Wisconsin Department of Natural Resources)

Ginger (now Everett), S. M. 2002. Effect of raccoon removal on opossum habitat use at multiple scales in a fragmented Cross Timbers ecoregion. M.S. Thesis, Oklahoma State University, Stillwater. 108pp. (Current position: Biologist, Ecosystem Services, U.S. Fish and Wildlife Service, Portland, OR, 503-231-6169 ext 6949 shauna_ginger@fws.gov ; Named outstanding M.S. student, Department of Zoology, 2001-2002)

Kasparian, M. A. 2002. Population characteristics of the Virginia opossum in the Cross Timbers Experimental Range during raccoon removal. M.S. Thesis, Oklahoma State University, Stillwater. 81pp. (Most recent position: CH2M HILL company, Biological Resources Support)

Parsons, Jennifer L. 2001. Nitrogen requirements of southern plains small mammals: dietary niche, life history, and environmental implications. M.S. Thesis, Oklahoma State University, Stillwater. 250 pp. (Current position: Nutritionist, Mazuri Exotic Animal Nutrition; Ph.D. completed; Graduate Research Excellence Award – Biological Sciences Group, Graduate College, Fall 2001)

Ilse, Linda M. 2001. Porcupines, pinyon pines and pine engravers: Multitrophic interactions in a pinyon-juniper woodland in Texas. Ph.D. Dissertation, Oklahoma State University, Stillwater. 98 pp. (Deceased 02/2013; Forest Society of Maine and adjunct faculty, University of Maine; Named outstanding Ph.D. student, Department of Zoology, 2000-2001).

Levesque, Laurence P. 2001. Effects of land-use on habitat associations and demography of mesocarnivores in the Cross Timbers ecoregion of Oklahoma. M.S. Thesis, Oklahoma State University, Stillwater. 107 pp. (Current position: Planning Chief; Public Engagement, Historic Preservation and Planning Division; US Fish and Wildlife Service; Northeast Region, 300 Westgate Center Drive; Hadley, MA 01035; laurence_levesque@fws.gov)

Burrow (now Peterfreund), Anna L. 2000. The effect of prescribed burning and grazing on the threatened Texas horned lizard (*Phrynosoma cornutum*) in the western Rio Grande

Plains. M.S. Thesis, Oklahoma State University, Stillwater. 144 pp. (current position: Environmental Scientist, American Consulting Engineers, LLC, northern Georgia)

Kazmaier, Richard T. 2000. Ecology and demography of the Texas tortoise (*Gopherus berlandieri*) in a managed thornscrub ecosystem. Ph.D. Thesis, Oklahoma State University, Stillwater. 230 pp. (current position: Associate Professor, West Texas A&M University, Canyon, Texas; Named outstanding Ph.D. student, Department of Zoology , 1999-2000).

James, J. B. 1998. Factors affecting wildlife damage at electrical substations. M. S. Thesis, Oklahoma State University, Stillwater. 134 pp (current position: owner, Native Summit Company, Edmond, Oklahoma outdoor store).

Radomski, A. A. 1999. Physiological ecology of northern bobwhite reproduction. Ph.D. Thesis, Texas A&M University-Kingsville--Texas A&M University, Kingsville and College Station. 167pp. (current position: Wildlife Program Manager, US Forest Service, Murray , Kentucky)

Gabor, T. M. 1997. Ecology and interactions of sympatric collared peccaries and feral pigs. Ph.D. Thesis, Texas A&M University-Kingsville--Texas A&M University, Kingsville and College Station. 255pp. (current position: faculty – Northland Community College, Minnesota)

DeYoung, R.W. 1997. Nutrition, carrying capacity, and group dynamics of desert bighorn sheep in western Texas. M.S. Thesis, Texas A&M University-Kingsville. 127pp. (Current position: Professor, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, Texas)

Harveson, L. A. 1995. Nutritional and physiological ecology of reproducing northern bobwhites in southern Texas. M. S. Thesis, Texas A&M University-Kingsville (co-chair with F. S. Guthery). 79pp. (Current position: Regents Professor and Endowed Director of Borderlands Research Institute, Sul Ross State University, Alpine, Texas)

Asleson, M. A. 1995. Protein requirements and response to of adult male white-tailed deer to short-term protein restriction. M. S. Thesis, Texas A&M University-Kingsville, Kingsville. 126pp. (Current position: Biologist, Florida Game and Fresh Water Fish Commission)

Doan-Crider, D. L. 1995. Population characteristics and home range dynamics of the black bear in northern Coahuila, Mexico. M. S. Thesis, Texas A&M University-Kingsville, Kingsville. 117pp. (Current position: Executive Director at Amino Partnership in Natural Resources and Coordinator for Native American Rangelands Partnership, Salish Kootenai College, Montana)

Ilse, L. M. 1993. Resource partitioning of sympatric populations of feral hogs and collared peccaries in south Texas. M. S. Thesis, Texas A&M University-Kingsville, Kingsville. 144pp.(Deceased)

Ruthven, D. C. III. 1992. Long-term effects of root-plowing on white-tailed deer nutritional condition, population status, and diet composition. M. S. Thesis, Texas A&I University, Kingsville. 156pp. (Current position: Conservation Scientist, Texas Parks and Wildlife Department).

Grasman, B. T. 1992. Effect of dietary phosphorus on antler growth and physiology in adult male white-tailed deer. M. S. Thesis, Texas A&I University, Kingsville. 170pp. (Current position: Environmental Scientist II, Montrose Colorado (3/2020)

**RESEARCH GRANTS RECEIVED (Principal Investigator unless otherwise noted):
Extramural – SIU (2005-2013)**

\$20,944– A one-year project to update historic (>10 yrs old) endangered and threatened vertebrate Element Occurrence Record information for Illinois Department of Natural Resources Administrative Region 5. Illinois Department of Natural Resources, 2012-2013. E. C. Hellgren, PI.

\$19,807–Survey for herpetofauna on Sparta Training Area. Illinois Department of Military Affairs, 2013. E. C. Hellgren, PI.

\$70,000–Large carnivores in Illinois: Planning for potential recolonization. Illinois Department of Natural Resources. Jan 2011-Dec 2012. **E. C. Hellgren** and C. K. Nielsen.

\$57,400–Monitoring and Study of Forest, Wetland, and Grassland-Associated Bird Populations on the Shawnee National Forest. U. S. Forest Service, Shawnee National Forest. 2010-2012. **E. C. Hellgren** and J. R. Nawrot.

\$5,106–Habitat associations of Henslow’s sparrows at reclaimed surface mines in southern Illinois. U. S. Fish and Wildlife Service. **E.C. Hellgren** and J. R. Nawrot.

\$153,000–Monitoring responses of the Texas horned lizard to conservation actions on Tinker Air Force Base, Oklahoma. Department of Defense, 2009-2014 (5 years; 2 contracts). **E. C. Hellgren** (co-PI Schaubert in 2013-2014).

\$120,500–Monitoring of avian use in the Shawnee National Forest. U. S. Forest Service, Shawnee National Forest. Cooperative agreement 2006-2010. **E. C. Hellgren** and J. R. Nawrot.

\$81,000—Spatial dynamics and dietary preferences of three syntopic gartersnake species—Graduate research Fellowship – Melissa Amarello. National Science Foundation. Years 1-2 of 3. (**E.C. Hellgren- advisor**)

\$49,806—Rates and sources of mortality in woodchucks (*Marmota monax*) along an urban-rural gradient in southern Illinois. Illinois Department of Natural Resources, Federal Aid, Small Grants Program. Michael Sears, PI (**E. C. Hellgren**, co-PI).

\$29,308—Baseline survey of presence or absence of mammalian, reptilian and amphibian populations on Tinker Air Force base (**E. C. Hellgren**, PI). Tinker AFB, Department of Defense, May 2007-December 2008.

~\$1,200,000—Cooperative Furbearing and Non-game Mammal Investigations (W-135-R). Illinois Department of Natural Resources, 2006-2013 (7 years). C. K. Nielsen, E. M. Schaubert and **E. C. Hellgren**.

\$68,000—Current and projected nest site availability for cavity-nesting waterfowl in the Upper Mississippi River and Great Lakes Joint Venture region. Charlotte Roy Nielsen, PI, and E. C. Hellgren, co-PI.

\$71,209—Management and conservation of the Texas horned lizard on Tinker Air Force base, Oklahoma. Department of Defense, 2006-2009 (3 years). Sole PI

OSU (1995-2005) Grants and Contracts (Principal Investigator unless otherwise noted):

\$28,868—Ecology of the Texas horned lizard on Tinker Air Force Base, Oklahoma. Department of Defense, 2003-2006 (3 years; Stanley Fox as co-PI)

\$170,000—Distribution and abundance of black bears in southeastern Oklahoma. Oklahoma Department of Wildlife Conservation (R. A. Van Den Bussche and D. M. Leslie, Jr. as co-PIs). 2003-2006 (3.5 years).

\$30,000—Abundance and habitat associations of the swift fox (*Vulpes velox*) in Oklahoma. Oklahoma Department of Wildlife Conservation (D. M. Leslie, Jr. as co-PI). 2002-2004 (2 years). .

\$80,000—Landscape use and population dynamics of black bears in the Ouachita Mountains. Oklahoma Department of Wildlife Conservation (D. M. Leslie, Jr. as co-PI). 2001-2004 (3 years).

\$31,400—Conservation ecology of the Texas horned lizard (*Phrynosoma cornutum*): Comparative effects of summer and winter burning. Welder Wildlife Foundation. 2002-04

\$157,406—Quantifying and modeling the risk of disturbance to ecosystems caused by invasive species. Environmental Protection Agency/ U.S. Geological Survey - Biological Resources Division (2000-2002) (D. M. Engle as co-PI). Zoology share = \$93,199.

\$637,077—The Effects of Nitrogen Enrichment on Nitrogen Cycling and Structure in Plant and Small Mammal Communities. Environmental Protection Agency/ U.S. Geological Survey - Biological Resources Division (1998-2002) (R.L. Lochmiller and D. M. Engle as co-PIs).

\$9,266—Denning Behavior and Movements of Black Bears in Big Bend National Park during Winter and Early Spring. Big Bend National Park, National Park Service, 1/1/01-5/31/01.

\$156,600—Conservation Ecology of an Isolated Population of Black Bears in the Big Bend Ecosystem. National Park Service NRPP Program - USGS (1998-2001) + Regents Cost-Share

\$6,500—Genetic structure of black bears in the Big Bend/Sierra del Carmen borderlands of Mexico and the United States. National Park Service, 9/1999-8/2001 (R. A. Van Den Bussche and D. M. Leslie, Jr. as co-PIs).

\$11,535 - Conservation ecology of the Texas horned lizard (*Phrynosoma cornutum*): The influence of land use practices - Texas Parks and Wildlife Department - 1998-2000 (C. C. Peterson as co-PI).

\$49,050 (3 granting agencies) - Interspecific relationships between porcupines, pinyon pines, and bark beetles in the pinyon-juniper woodlands of the Edwards Plateau in Texas. Welder Wildlife Foundation. 1997-01 (\$44,850), Max McGraw Wildlife Foundation (\$3,000), Texas Parks and Wildlife Department (\$1,200)

\$15,000 - Population dynamics and landscape ecology of black bears in the Ouachita Biotic Region - National Forest Foundation and Oklahoma Department of Wildlife Conservation - 1997-98

\$59,210 - The effect of grazing on ecology and demography of the Texas tortoise (*Gopherus berlandieri*) in the western Rio Grande Plains - Welder Wildlife Foundation - 1994-1998 (\$53,850), Texas Nature Conservancy - 1996 (\$360); Texas Parks and Wildlife Department - 1994 (\$5,000)

\$82,688 - Management of wildlife-related power outages at electrical substations - Western Farmers Electric Cooperative - 1996-1997 (with Ron Masters)

Texas A&M University–Kingsville (1989-1995) Grants and Contracts:

\$201,125 - Sublethal effects of organophosphorus pesticides on reproductive behavior, physiology, and productivity of white-winged doves - Texas Parks and Wildlife Department - 1994-1998 (With Thomas C. Tacha as co-PI).

\$73,400 - Evaluation of bighorn sheep habitat and food habits in the Sierra Diablo, Beach, and Baylor Mountains - Texas Parks and Wildlife Department - 1993-1996 (co-PI with Tim Fulbright as PI)

\$15,500 - The effect of timing of protein nutrition on antler growth of white-tailed deer - American Conservation and Education Society, Purina Mills, Inc. - 1992-93

\$65,615 - Physiological ecology of quail reproductive failure in drought (F. S. Guthery, N. J. Silvy as co-PIs) - Wildlife Resource Program Fund (Texas) - 1992 - 1995.

\$73,232 - Resource partitioning between feral hogs and collared peccaries in the Western Rio Grande Plains (N. J. Silvy as co-PI) - Wildlife Resource Program Fund - 1992 - 1995.

\$ 2,100 - Food habits of the feral hog in the western Rio Grande Plains - Texas Parks and Wildlife Department - 1992

\$140,500 - Ecology of the Mexican Black Bear with an emphasis on female habitat use and subadult dispersal - 1990-1994

Agency contracts:

U.S. Fish and Wildlife Service (Joint U.S.-Mexico research) - \$18,000 (1991-1993)

National Fish and Wildlife Foundation - \$30,000 (+ \$40,000 match in direct logistical support and donations)

Private grants and contracts:

National Rifle Association - \$4,000 (1991, 1993)

Boone and Crockett Club - \$5,000 (1993)

Private donations:

Robin Brittingham (private donation) - \$5,000

George Baker Trust - \$25,000

DuPont of Mexico - \$13,500

\$39,500 - Ecology of sympatric populations of feral hogs and collared peccaries - Welder Wildlife Foundation - 1991-1993

\$ 7,500 - Status and distribution of the black bear in Big Bend National Park - National Park Service, Big Bend Natural History Association - 1991

\$ 2,500 - Physiological indicators of black bear habitat quality in north-central Minnesota - North Central Forest Experiment Station, U. S. Forest Service - 1990

Intramural (> \$200,000)

\$55,703 - Sodium nutrition in white-tailed deer -- Caesar Kleberg Foundation for Wildlife Conservation, 1994-95

\$62,186 - The effect of timing of protein nutrition on antler growth of white-tailed deer -- Caesar Kleberg Foundation for Wildlife Conservation, 1992-94

\$65,350 - Phosphorus nutrition in male white-tailed deer in south Texas - Caesar Kleberg Foundation for Wildlife Conservation - 1989-1991.

\$30,559 - Deer nutritional ecology at 2 levels of brush diversity in south Texas - Caesar Kleberg Foundation for Wildlife Conservation - 1990-1992.

\$ 900 - New Faculty Development Award, Office of Sponsored Research, Texas A&I University

NONREFEREED TECHNICAL PUBLICATIONS:

Shanks, III, W. C., **E. C. Hellgren**, C. Stricker, P. Gemery-Hill, and D. P. Onorato. 2008. Stable isotope and trace element studies of black bear hair, Big Bend ecosystem, Texas and Mexico Pages 77-84 in Gray, J.E., and Page, W.R., editors, Geological, geochemical, and geophysical studies by the U.S. Geological Survey in Big Bend National Park, Texas: USGS Circular 1327. 93pp.

Moody, R. W., D. A. Endriss, E. C. Hellgren, and S. F. Fox. 2007. Studying a population of Texas horned lizards (*Phrynosoma cornutum*) in an urban/military environment. *Iguana* 14(1): 8-17.

Jorgensen, E. E., S. Holub, G. Silva, P. M. Mayer, A. E. West, M. E. Gonsoulin, S. J. Tunnell, J. E. Clark, J. L. Parsons, D. M. Engle, and E. C. Hellgren. 2003. Sources and estimated load of bioavailable nitrogen attributable to chronic nitrogen exposure and changed ecosystem structure and function. First Interagency Conference on Research in the Watershed (27-30 October 2003, Benson, Arizona).

Jorgensen, E.E., P.M. Mayer, A.E. West, M.E. Gonsoulin, S.J. Tunnell, J.E. Clark, J.L. Parsons, D.M. Engle, and E.C. Hellgren. 2002. Early indicators of nitrate stress: effects to ecosystems of chronic exposure to low doses of bioavailable nitrogen. Proceedings of the National TMDL Science and Policy Conference, Water Environment Federation, Phoenix, Arizona.

Hellgren, E. C. 1997. Nutritional facts, fallacies, and problems with supplemental feeding. Appendix pages 5-7 in E. L. Kozicky. A protein pellet feed delivery system for white-tailed deer. Management Bulletin 2, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville.

Taylor, R. B., and E. C. Hellgren. 1993. Texas Status Report. Proc. Eastern Black Bear Workshop 11:75-77.

Hellgren, E. C. 1992. Chemical immobilization (workshop). Pages 581-582 In R. D. Brown, ed. Biology of Deer. Springer-Verlag, New York.

Hellgren, E. C. 1991. Texas status report. East. Workshop Black Bear Res. and Manage. 10:75.

Hellgren, E. C. 1988. Great Dismal Swamp National Wildlife Refuge black bear study status report. East. Workshop Black Bear Res. and Manage. 8:242-243.

Seager, S. W. J., E. C. HELLGREN, S. J. Magyar, T. J. Biediger, R. E. Hoekstra, K. P. Coscarelli, R. L. Lochmiller, and W. E. Grant. 1984. Semen collection in the javelina or collared peccary (Tayassu tajacu). P. 185 in Proc. Am. Assoc. Zoo Vet.

POPULAR ARTICLES:

"Protein and phosphorus: can higher doses grow bigger bucks?" Tim Fulbright and Eric Hellgren. Deer and Deer Hunting Magazine, March 1999, Volume 22(6): 24-32.

"A Year in the Life of Dismal Swamp Bears." Eric C. Hellgren and Michael R. Vaughan. Virginia Wildlife 47(12):14.

HONORS, AWARDS, AND FELLOWSHIPS:

Golden Torch Faculty Award: OSU Achafoa Chapter of the National Mortar Board Honor Society (Outstanding faculty member in College of Arts and Sciences) – April 2001

OSU Celebrity Award - Faculty Excellence at Oklahoma State University -College of Arts and Sciences - 4-22-96.

Best Professional presentation - 1995 Fall Technical Meeting - Oklahoma Academy of Sciences, Fish and Wildlife Conservation Section

Environmental Publication Award - National Wildlife Federation - 1989

Cunningham Dissertation Fellowship - Academic Year 1987-1988 - Virginia Polytechnic Institute and State University. (\$11,000)

Lechner Fellowship - 1982-1983 - Graduate School, Texas A&M University. (\$7800)

INVITED PRESENTATIONS:

Hellgren, E. C. The Department of Wildlife Ecology and Conservation: Past, Present, and Future (+ Big Bend Black Bears). Institute for Learning in Retirement (ILR). Oak Hammock, Gainesville, FL. 13 July 2016.

Hellgren, E.C. Linking science and management: marsh rice rats (*Oryzomys palustris*) in Illinois. University of Connecticut, Storrs, CT. 9 September 2016.

Hellgren, E. C. Strengthening the Science-Management Bond: A National View. Invited Plenary Talk, Florida Chapter of The Wildlife Society, Gainesville, FL, 14 April 2016.

Hellgren, E. C. Ecology of the Texas Horned Lizard: 10 Years on an Urban Habitat Island. Iowa State University. January 2014.

Hellgren, E. C. Ecology of the Texas Horned Lizard: 10 Years on an Urban Habitat Island. University of Illinois, NRES Seminar Series. 22 February 2013.

Hellgren, E. C. Conducting effective manuscript peer reviews: the editor's view. Workshop presentation. Annual Meeting of The Wildlife Society, Monterey, CA, 20-24 September 2009.

Hellgren, E. C. Southern Illinois – Our Natural Heritage (An overview of research/education/outreach in biological resources in the southern Illinois region). Cultural and Natural Heritage Symposium. 8 April 2009. Center for Delta Studies.

Hellgren, E. C. Black bears in the Tex-Mex metapopulation: rise and fall of a satellite. Iowa State University, Department of Natural Resources Ecology and Management, 11 April 2008..

Hellgren, E. C. Black bears in the Tex-Mex metapopulation: rise and fall of a satellite. University of Missouri, Department of Fisheries and Wildlife, 2 March 2007.

Hellgren, E. C. Black bears in the Tex-Mex metapopulation: rise and fall of a satellite. Center for Ecology Seminar Series, SIU-Carbondale. 22 March 2006.

Hellgren, E. C. Biology of feral hogs. Feral hog scoping meeting, Big Bend National Park and National Park Service. Alpine, Texas. 26 June 2003

Hellgren, E. C. Physiology of hibernation in bears. Zoo, Exotic, and Wildlife Animal Group, College of Veterinary Medicine, Oklahoma State University, 12 November 1998 and 22 February 2001.

Hellgren, E. C. Collared peccaries and feral hogs in south Texas: Are sympatric suiforms sympatric? Department of Forestry, University of Kentucky, 3 November 1998.

Ecology, conservation, and management of black bears in Great Dismal Swamp. Dismal Swamp Symposium, Norfolk, Va, 1-7-97

Phosphorus, Antlers, and Deer: Nutritional Requirements and Ecological Implications. Department of Biology, Southwest Missouri State University, 11-15-96

Hellgren, E. C. Biology of feral hogs in Texas. Noble Foundation, Ardmore, OK. 27 June 1996.

Physiology of Hibernation in Bears. 10th International Conference for Bear Research and Management. Fairbanks, AK 7/95.

Supplementing Wildlife. Rangeland Enterprise Compatibility Symposium, Texas A&M Research and Extension Center, Uvalde, Tx, 26 May 1995.

Ecology and Physiology of black bears: Tales of 2 sexes. Department of Wildlife and Fisheries Sciences, Texas A&M University, Seminar Series, 2-94.

Ecology and Physiology of black bears: Tales of 2 sexes. Department of Biology, University of New Mexico, Seminar Series, 10-93.

Resource partitioning between exotic and indigenous suiforms in south Texas. Department of Biology, University of New Mexico, Seminar Series, 10-93.

Hellgren, E. C. 1993. Biology of feral hogs (Sus scrofa) in Texas. Feral swine Symposium: a compendium for resource managers. Texas Agric. Ext. Service, Texas A&M Univ.. Kerrville, TX 3-93

Hellgren, E. C., and D. S. Maehr. Habitat fragmentation and black bears in the eastern United States. Eastern Black Bear Workshop on Research and Management. Waterville Valley, NH. 4-92

Hellgren, E. C. Black bear research in northern Mexico and Big Bend National Park. Black Bear Conservation Committee Meeting, Nacogdoches, TX, 10-91.

Seasonal patterns in black bear physiology, nutrition, and behavior. Invited Seminar, Texas A&M University, Department of Wildlife and Fisheries Sciences, 14 Sep 1990.

Seasonal patterns in black bear physiology, nutrition, and behavior. Invited Seminar, Oklahoma State University, Department of Zoology, 28 Sep 1990

Javelina nutrition and management, Texas Wildlife Assoc., Kerrville, TX, May 1989.

Physiology of hibernation and reproduction in black bears, Zoological Society of New Jersey, Turtleback Zoo, NJ, April 1989

PROFESSIONAL PRESENTATIONS (>275)