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**Education:**

Ph.D., Biology, University of Memphis, Memphis, Tennessee, 1988.  
M.S., Biology, Eastern New Mexico University, Portales, New Mexico, 1983.  
B.S., Wildlife Management, Eastern New Mexico Univ., Portales, New Mexico, 1981.

**University Experience:**

- Professor of Biology, Texas State University, 2013 – Present.
- Director, MS Wildlife Ecology Program, Texas State University, 2013 – Present.
- Associate Professor of Biology, Texas State University, 2008 – 2013.
- Assistant Professor of Biology, Texas State University, 2002 – 2008.
- Lecturer in Biostatistics, Humboldt State University, 1994 – 2002.
- Statistical Consultant – California Cooperative Fisheries Research Unit, Humboldt State University, 2000 – 2002.
- Faculty Adjunct – Biostatistics, Humboldt State University, 1996 – 2002.
- Lecturer in Wildlife Management and Ecology, Humboldt State University, 1991 – 1994.
- Visiting Assistant Professor of Biology, Memphis State University, 1988 – 1989.

**Relevant Professional Experience:**

- Research Associate, Institute of Arctic Biology, University of Alaska-Fairbanks, 1996 - 2016
- Postdoctoral Research Associate, University of California – Berkeley, 1988 – 1991.
- Graduate Research Assistant, Memphis State University, 1987 – 1988.
- Graduate Teaching Assistant, Memphis State University, 1984 – 1987.
- Graduate Research Assistant, Memphis State University, 1983 – 1984.
- Graduate Teaching Assistant, Eastern New Mexico University, 1981 – 1983.
- Undergraduate Instructional Assistant, Eastern New Mexico University, 1980 – 1981.

**PUBLICATIONS**

**Book**

Weckerly, Butch. 2017. Population ecology of Roosevelt elk: conservation and management in Redwood National and State Parks. University of Nevada Press.

**Book Chapter**

Wolcott, D. M., A. Duarte, and F. W. Weckerly. 2019. Statistical Inference. *In* Fath, B. D., (editor in chief) *Encyclopedia of Ecology*, 2<sup>nd</sup> edition, vol. 2, pp. 199 – 205. Oxford: Elsevier.

***Refereed Journal Articles:*** (Underlined authors are students)

- 99) Espinoza, Z. S., and **F. W. Weckerly**. 2021. A comparative analysis of adult sex ratios in polygynous and monogamous mammal populations. *American Midland Naturalist* 186:299-308 (National)
- 98) **Weckerly, F. W.**, N. R. Kolbe, K. N. Schmidt, and K. J. Bensen. 2021. Prescribed fire has slight influence on Roosevelt elk population dynamics. *Basic and Applied Ecology* 56:156-164 (International)
- 97) Spilinek, S. G., R. Reitz, and **F. W. Weckerly**. 2020. Rumen-reticulum organ mass and rumen mucosa surface area of white-tailed deer consuming two energy diets. *Canadian Journal of Zoology* 98:725-732. DOI: 10.1139/cjz-2020-0043 (International)
- 96) Koetke, L. J., A. Duarte, and **F. W. Weckerly**. 2020. Elk population dynamics when carrying capacities vary within and among herds. *Scientific Reports* 10:15956 (International)
- 95) Williamson, L. H., and **F. W. Weckerly**. 2020. Elk forage response to prescribed fire in Boyes meadow, Prairie Creek Redwoods State Park, California. *California Fish and Game* 106 (Special Issue on fire):93-102. (Regional)
- 94) **Weckerly, F. W.** 2020. Frequency and density associated grouping patterns of male Roosevelt elk. *Frontiers in Ecology and Evolution* 8: Article 204 (INVITED PAPER, Section on Advances in Ungulate Ecology) International
- 93) McGuire, A. S., and **F. W. Weckerly**. 2020. Forage biomass at meadow bite stations used by female and male Roosevelt elk. *Northwestern Naturalist* 101:104-110. (Regional)
- 92) Koetke, L. J., A. Duarte, and **F. W. Weckerly**. 2020. Comparing the Ricker and  $\theta$ -logistic models for estimating elk population growth. *Natural Resource Modeling* 33:e12270. DOI: 10.1111/nrm.12270 (International)
- 91) Diaz, P., E. L. Orsak, **F. W. Weckerly**, and D. A. Alvarez. 2020. Urban stream syndrome and contaminant uptake in salamanders in central Texas. *Journal of Fish and Wildlife Management* 11:287-299. (International)
- 90) Gula, J. J., **F. W. Weckerly**, and K. S. Gopi Sundar. 2019. The first range-wide assessment of Saddle-billed Stork *Ephippiorhynchus senegalensis* distribution. *Ostrich* 90:347-357. (International) AWARDED BEST STUDENT PUBLICATION IN OSTRICH, 2019.
- 89) Tolliver, J. D. M., A. A. Moore, M. C. Green, and **F. W. Weckerly**. 2019. Coastal Texas black rail population states and survey effort. *Journal of Wildlife Management* 83:312-324. (International)
- 88) Peterson, L. M., and **F. W. Weckerly**. 2018. Social behavior and changes in foraging behavior in a gregarious ungulate. *Journal of Mammalogy* 99: 1422-1429. (International)
- 87) Tolliver, J. D. M., and **F. W. Weckerly**. 2018. Abundance, habitat and occupancy of Roosevelt elk in the Bald Hills of Redwood National Park. *California Fish and Game* 104:67-74. (Regional)
- 86) **Weckerly, F. W.**, G. Bhaskar, A. Duarte, R. S. Luna, and H. D. Starns. 2018.

- Heavier rumen-reticulum organs in white-tailed deer is consistent with dietary bulk not quality. *Canadian Journal of Zoology* 96:748-752. (International)
- 85) Peterson, L. M., and **F. W. Weckerly**. 2017. Male group size, female distribution and changes in sexual segregation by Roosevelt elk. *Plos One* 12:e0187829. (International)
  - 84) Bliss, L. M., and **F. W. Weckerly**. 2016. Habitat use by male and female Roosevelt elk in northwestern California. *California Fish and Game* 102:8-16. (Regional)
  - 83) Mali, I., **F. W. Weckerly**, T. R. Simpson, and M. R. J. Forstner. 2016. Small Scale–High Resolution Terrestrial Activity of *Trachemys scripta elegans*, Harvest Intensity, and Immediate Movement Responses Following Harvest Events. *Copeia* 104:667-682. (International)
  - 82) Bhaskar, G., and **F. W. Weckerly**. 2016. Birth mass scaling in elk (*Cervus elaphus*). *American Midland Naturalist* 175:275-279. (National)
  - 81) Duarte, A., **F. W. Weckerly**, M. Schaub, and J. S. Hatfield. 2016. Estimating golden-cheeked warbler immigration: implications for the spatial scale of conservation. *Animal Conservation* 19:65-74. (International)
  - 80) Duarte, A., J. S. Hatfield, J. D. Nichols, T. M. Swannack, M. R. J. Forstner, M. C. Green, and **F. W. Weckerly**. 2016. Simulating range-wide population and breeding habitat dynamics for an endangered woodland warbler in the face of uncertainty. *Ecological Modelling* 320:52-61. (International)
  - 79) Thalmann, J. C., R. T. Bowyer, K. A. Aho, **F. W. Weckerly**, and D. R. McCullough. 2015. Antler and body size in black-tailed deer: an analysis of cohort effects. *Ecological Advances* 2015:Article ID 156041. (International)
  - 78) Weaver, S. P., T. R. Simpson, J. T. Baccus, and **F. W. Weckerly**. 2015. Baseline population estimates and microclimate data for newly established overwintering Brazilian free-tailed bat colonies in central Texas. *Southwestern Naturalist* 60:151-157. (Regional)
  - 77) Kolbe, N. R., and **F. W. Weckerly**. 2015. Home-range overlap of Roosevelt elk herds in the Bald Hills of Redwood National Park. *California Fish and Game* 101:208-217. (Regional)
  - 76) Aiken, M. R. E., D. M. Wolcott, A. Duarte, R. S. Luna, H. D. Starns, and **F. W. Weckerly**. 2015. Use of rumen-reticulum fill to examine nutrient transfer and factors influencing food intake in white-tailed deer. *Canadian Journal of Zoology* 93:439-445. (International)
  - 75) Wolcott, D. M., R. L. Reich, and **F. W. Weckerly**. 2015. Biological and environmental influences on parturition date and birth mass of a seasonal breeder. *PLOS One* 10(4): e0124431. (International)
  - 74) Starns, H. D., **F. W. Weckerly**, A. D. Duarte, and M. A. Ricca. 2015. Vegetation changes associated with a population irruption by Roosevelt elk. *Ecology and Evolution* 5: 109-120. (International)
  - 73) Wolcott, D. M., J. L. Asmus, and **F. W. Weckerly**. 2014. Overcoming cohort effects in a Mediterranean ecosystem: the role of density and precipitation on southern mule deer body mass. *Journal of Wildlife Management* 79:1335-1342. FEATURE ARTICLE (International)
  - 72) Duarte, A., J. E. Hines, J. D. Nichols, J. S. Hatfield, and **F. W. Weckerly**. 2014. Age-specific survival of male Golden-cheeked Warblers on the Fort Hood Military

- Reservation. Avian Conservation and Ecology 9:a4 (9 p). (International)
- 71) Aiken, M. R. E., A. Duarte, R. S. Luna, D. M. Wolcott, and F. W. Weckerly. 2014. Daytime declines in rumen-reticulum fill of male white-tailed deer (*Odocoileus virginianus*) from south Texas. Canadian Journal of Zoology 92:637-642. (International)
  - 70) Starns, H. D., A. Duarte, M. A. Ricca, and F. W. Weckerly. 2014. Climatic and density influences on recruitment in an irruptive population of Roosevelt elk. Journal of Mammalogy 95:925-932. (International)
  - 69) Duarte, A., R. S. Luna, H. S. Starns, and F. W. Weckerly. 2014. Intraspecific scaling of rumen-reticulum fill might depend on dietary fiber. American Midland Naturalist 172:330-338. (National)
  - 68) Ricca, M. A., Van Vuren, D. F. W. Weckerly, K. Miles, and J. Williams. 2014. Irruptive dynamics of introduced caribou on Adak Island, Alaska: an evaluation of Riney-Cauchley model predictions. Ecosphere 5:a94. (International)
  - 67) Weckerly, F. W., and M. A. Ricca. 2014. Aggression and coexistence in female caribou. Arctic 67:189-195. (International)
  - 66) Parra, C. A., A. Duarte, R. S. Luna, D. M. Wolcott, and F. W. Weckerly. 2014. Body weight, age, and reproductive influences on liver weight of white-tailed deer. Canadian Journal of Zoology 92: 273-278. (International)
  - 65) Duarte, A., J. L. R. Jensen, J. S. Hatfield, and F. W. Weckerly. 2013. Spatiotemporal variation in range-wide golden-cheeked warbler breeding habitat. Ecosphere 4:Article 152. (International)
  - 64) Warren, C. C., J. A. Veech, F. W. Weckerly, L. O'Donnell, and J. R. Ott. 2013. Detection heterogeneity and abundance estimation in populations of golden-cheeked warblers (*Setophaga chrysoparia*). Auk 130: 677-688 (International)
  - 63) Luna, R. S., and F. W. Weckerly. 2013. Variation across years in rumen-reticulum capacity and digesta load in white-tailed deer (*Odocoileus virginianus*). Southeastern Naturalist 12:283-296. (Regional)
  - 62) Julian, A. E., K. Schmidt, and F. W. Weckerly. 2013. Group size dynamics of female Roosevelt elk in Redwood National and State Parks. California Fish and Game 99:49-54. (Regional)
  - 61) Luna, R. L., A. Duarte, and F. W. Weckerly. 2013. Influence of body size on dietary nutrition of white-tailed deer *Odocoileus virginianus*. Journal of Fish and Wildlife Management 4:53-62. (International)
  - 60) Street, G. M., F. W. Weckerly, and S. Schwinning. 2013. Modeling forage mediated aggregation in a gregarious ruminant. Oikos 122:929-937. (International)
  - 59) Weckerly, F. W. 2013. Conspecific body weight, food intake, and rumination time affect food processing and forage behavior. Journal of Mammalogy 94:120-126. (International)
  - 58) Luna, R. S., A. Duarte, and F. W. Weckerly. 2012. Rumen-reticulum characteristics, scaling relationships and ontogeny in white-tailed deer (*Odocoileus virginianus*). Canadian Journal of Zoology 91:1351-1358. (International)
  - 57) Hatfield, J. S., Duarte, A., and F. W. Weckerly. 2012. Shifting foundations and metrics for recovery. Wildlife Society Bulletin 36:415-422. INVITED PAPER (International)
  - 56) Ricca, M. A., F. W. Weckerly, and A. Duarte. 2012. Range expansion of

- nonindigenous caribou in the Aleutian archipelago of Alaska. *Biological Invasions* 14:1779-1784. (International)
- 55) **Weckerly F. W.** 2012. Cave cricket exit counts: environmental influences and length of surveys. *Journal of Cave and Karst Studies* 74:1-6. (International)
- 54) Hunt, J. W., **F. W. Weckerly**, and J. R. Ott. 2012. Reliability of occupancy and binomial mixture models for estimating abundance of golden-cheeked warblers (*Dendroica chrysoparia*). *Auk* 129:105-114. (International)
- 53) Weaver, S. P., and **F. W. Weckerly**. 2011. Sex ratio estimates of Roosevelt elk using counts and Bowden's estimator. *California Fish and Game* 97:130-137.
- 52) Duarte, A., **F. W. Weckerly**, and D. R. McCullough. 2011. Does rumen-reticulum capacity correlate with body size or age? *European Journal of Wildlife Research* 57:1131-1136. (International)
- 51) Asmus, J. L., and **F. W. Weckerly**. 2011. Evaluating the Precision of Cementum Annuli Analysis for Aging Mule Deer from Southern California. *Journal of Wildlife Management* 75:1194-1199. (International)
- 50) **Weckerly, F. W.**, and J. Foster. 2010. Blind count surveys of white-tailed deer and population estimates using Bowden's Estimators. *Journal of Wildlife Management* 74:1367-1377. (International)
- 49) Robinson, S. E., and **F. W. Weckerly**. 2010. Forage selection and grouping by male and female scimitar-horned oryx in the Llano Uplift region of Texas. *Southwestern Naturalist* 55:510-516. (Regional)
- 48) Faas, C. J., and **F. W. Weckerly**. 2010. Habitat interference by axis deer on white-tailed deer. *Journal of Wildlife Management* 74:698-706. (International)
- 47) Gaston, M. A., A. Fujii, **F. W. Weckerly**, and M. R. J. Forstner. 2010. Potential component Allee effects and their impact on wetland management in the conservation of endangered anurans. *PLOS One* 5(4):e10102. (International)
- 46) **Weckerly, F. W.** 2010. Allometric scaling of rumen-reticulum capacity in white-tailed deer *Odocoileus virginianus*. *Journal of Zoology* 280:41-48. (International)
- 45) Ferguson, A. W., N. A. Currit, and **F. W. Weckerly**. 2009. Isometric scaling in home range size of male and female bobcats (*Lynx rufus*). *Canadian Journal of Zoology* 87:1052-1060. (International)
- 44) Watson, C. A., **F. W. Weckerly**, J. S. Hatfield, C. C. Farquhar, and P. S. Williamson. 2008. Presence – Nonpresence surveys of golden-cheeked warblers: detection, occupancy, and survey effort. *Animal Conservation* 11:484-492. (International)
- 43) Krejca, J. K., and **B. Weckerly**. 2008. Detection probabilities of Karst invertebrates. *Proceedings of the Cave and Karst Management Symposium* 18:283-289. INVITED (International)
- 42) Ferguson, A. W., **F. W. Weckerly**, J. T. Baccus, and M. R. J. Forstner. 2008. Evaluation of Predator Attendance at Pitfall Traps in Texas. *Southwestern Naturalist* 53:450-457. (Regional)
- 41) Jones, R. L., **F. W. Weckerly**, and D. R. McCullough. 2008. Influence of age and sex on dressed-whole weight relationships in a California black-tailed deer population. *California Fish and Game* 94:137-142. (Regional)
- 40) Richardson, K. E., and **F. W. Weckerly**. 2007. Intersexual social behavior of urban white-tailed deer and its evolutionary implications. *Canadian Journal of Zoology* 85:759-766. (International)

- 39) Shelton, S. L., and **F. W. Weckerly**. 2007. Inconsistencies in historical geographic range maps: the gray wolf as example. *California Fish and Game* 93:224-227. (Regional)
- 38) Ramzinski, D. W., and **F. W. Weckerly**. 2007. Scaling relationship between body weight and fermentation gut capacity in Axis deer (*Axis axis*). *Journal of Mammalogy* 88:415-420. (International)
- 37) **Weckerly, F. W.** 2007. Constant proportionality in the female segment of a Roosevelt elk population. *Journal of Wildlife Management* 71:773-777. (International)
- 36) Longoria, M. P., and **F. W. Weckerly**. 2007. Estimating detection probabilities of Collared Peccary from sign. *Journal of Wildlife Management* 71:652-655. (International)
- 35) Jackson, J. T., **F. W. Weckerly**, T. M. Swannack, and M. R. J. Forstner. 2006. Inferring absence of Houston Toads given imperfect detection probabilities. *Journal of Wildlife Management* 70:1461-1463. (International)
- 34) Small, M. F., J. T. Baccus, and **F. W. Weckerly**. 2006. Are subcutaneous implanted transmitters really better than intracoelomic? A response. *Wildlife Society Bulletin* 34:890-893. (International)
- 33) **Weckerly, F. W.**, M. L. Kennedy, and S. Stephenson. 2005. Hunter effort-harvest size relationships among hunt types of white-tailed deer. *Wildlife Society Bulletin* 33:1303-1311. (International)
- 32) Keifer, S. J., and **F. W. Weckerly**. 2005. Population density and body weight influences on home range size of feral hogs. *California Fish and Game* 91:136-142. (International)
- 31) **Weckerly, F. W.** 2005. Grass and supplemental patch selection in a population of Roosevelt elk. *Journal of Mammalogy* 86:630-638. (International)
- 30) **Weckerly, F. W.**, K. A. McFarland, M. A. Ricca and K. P. Meyer. 2004. Cropping rates, social affinity and sexual segregation in Roosevelt elk when population density changes. *American Midland Naturalist* 152:386-399 (National)
- 29) Small, M. F., R. Rosales, J. T. Baccus, **F. W. Weckerly**, D. N. Phalen, and J. A. Roberson. 2004. A comparison of effects of radiotransmitter attachment techniques on captive white-winged doves. *Wildlife Society Bulletin* 32:627-637. (International)
- 28) **Weckerly, F. W.** 2004. Movement of male and female black-tailed deer foraging on acorns. *Northwestern Naturalist* 85:16-19. (Regional)
- 27) **Weckerly, F. W.**, V. C. Bleich, C. B. Chetkiewicz, and M. A. Ricca. 2003. Body weight and rumen-reticulum capacity in tule elk and mule deer. *Journal of Mammalogy* 84:659-664. (International)
- 26) **Weckerly, F. W.**, Ricca, M. A., and K. P. Meyer. 2001. Sexual segregation in Roosevelt elk: cropping rates and aggression in mixed-sex groups. *Journal of Mammalogy* 82:825-835. (International)
- 25) **Weckerly, F. W.** 2001. Are large male Roosevelt elk less social because of aggression? *Journal of Mammalogy* 82:414-421. (International)
- 24) **Weckerly, F. W.**, and M. A. Ricca. 2000. Using the presence of sign to measure habitats used by Roosevelt elk. *Wildlife Society Bulletin* 28:146-153. (International)
- 23) **Weckerly, F. W.** 1999. Social bonding and aggression in female Roosevelt elk.

- Canadian Journal of Zoology 77:1379-1384. (International)
- 22) **Weckerly, F. W.** 1998. Sexual segregation and competition in Roosevelt elk (*Cervus elaphus roosevelti*). Northwestern Naturalist 79:113-118. (Regional)
  - 21) **Weckerly, F. W.**, and K. E. Kovacs. 1998. Using military helicopters to survey elk in north coastal California. California Fish and Game 84:44-47. (Regional)
  - 20) **Weckerly, F. W.** 1998. Sexual size dimorphism: influence of mass and mating system in the most dimorphic mammals. Journal of Mammalogy 79:33-52. (International)
  - 19) **Weckerly, F. W.** 1996. Roosevelt elk along the Prairie Creek drainage: an evaluation of estimating abundance and herd composition. California Fish and Game 82:175-181. (Regional)
  - 18) Ricca, M. A., **F. W. Weckerly**, and R. D. Semlitsch. 1996. The effects of soil moisture and temperature on overwinter survival of Curculio larvae (Coleoptera:Curculionidae). American Midland Naturalist 136:203-206. (National)
  - 17) Main, M. M., **F. W. Weckerly**, and V. C. Bleich. 1996. Sexual segregation in ungulates: new directions for research. Journal of Mammalogy 77:449-461. (International)
  - 16) **Weckerly, F. W.** 1994. Selective feeding behavior of black-tailed deer: forage quality or abundance? Journal of Mammalogy 75:705-713. (International)
  - 15) Massey, B. N., **F. W. Weckerly**, C. E. Vaughn, and D. R. McCullough. 1994. Correlations between fecal N and diet composition in free-ranging black-tailed deer. Southwestern Naturalist 39:165-170. (Regional)
  - 14) McCullough, D. R., **F. W. Weckerly**, P. I. Garcia, and R. R. Evett. 1994. Sources of inaccuracy of deer herd composition counts. Journal of Wildlife Management 58:319-329. (International)
  - 13) **Weckerly, F. W.** 1993. Intersexual resource partitioning in black-tailed deer: a test of the body size hypothesis. Journal of Wildlife Management 57:475-494. (International)
  - 12) **Weckerly, F. W.** 1992. Territoriality in North American *Odocoileus*: a call for a common definition. Wildlife Society Bulletin 20:228-231. (International)
  - 11) **Weckerly, F. W.**, and M. L. Kennedy. 1992. Examining hypotheses about feeding strategies of white-tailed deer. Canadian Journal of Zoology 70:432-439. (International)
  - 10) Kennedy, M. L., J. P. Nelson, Jr., **F. W. Weckerly**, D. W. Sugg, and J. C. Stroh. 1991. An assessment of selected forest factors and lake level in raccoon management. Wildlife Society Bulletin 19:151-154. (International)
  - 9) **Weckerly, F. W.**, and J. P. Nelson, Jr. 1990. Age and sex differences of white-tailed deer diet composition, quality, and calcium in Tennessee. Journal of Wildlife Management 54:532-538. (International)
  - 8) **Weckerly, F. W.**, K. E. Nicholson, and R. D. Semlitsch. 1989. Experimental test of discrimination of insect infested and noninfested acorns by squirrels. American Midland Naturalist 122:412-415. (National)
  - 7) **Weckerly, F. W.**, D. W. Sugg, and R. D. Semlitsch. 1989. Germination success of acorns (*Quercus*): insect predation and tannins. Canadian Journal of Forest Research 19:811-815. (International)
  - 6) **Weckerly, F. W.** 1989. Plasticity in length of hindgut segments of white-tailed deer.

- Canadian Journal of Zoology 67:189-193. (International)
- 5) **Weckerly, F. W.**, A. L. Gennaro, and T. L. Best. 1988. Description of a new rock pocket mouse, *Chaetodipus intermedius*, from New Mexico lava fields. *Southwestern Naturalist* 33:100-102. (Regional)
  - 4) **Weckerly, F. W.**, P. L. Leberg, and M. L. Kennedy. 1987. Density estimates of the Virginia Opossum (Marsupialia:Didelphidae) in western Tennessee. *Tennessee Academy of Science* 62:108-110. (Regional)
  - 3) **Weckerly, F. W.**, P. L. Leberg, and R. A. Van Den Bussche. 1987. Variation of weight and chest girth in white-tailed deer. *Journal of Wildlife Management* 51:334-337. (International)
  - 2) Pfaffenberger, G. S., F. W. Weckerly, and T. L. Best. 1986. Male pseudohermaphroditism in a population of kangaroo rats, *Dipodomys ordii*. *Southwestern Naturalist* 30:124-125. (Regional)
  - 1) **Weckerly, F. W.**, and T. L. Best. 1985. Morphological variation among rock pocket mice, *Chaetodipus intermedius*, from New Mexico lava fields. *Southwestern Naturalist* 30:491-501. (Regional)

**Non-refereed Technical Articles:**

- Moore, A. A. 2018. Final report, Texas species research, black rails (*Laterallus jamaicensis*). Texas Comptroller IAC# 15-5545RR. 41 pp.
- Moore, A., F. Weckerly, and M. C. Green. 2016. Literature review: black rail (*Laterallus jamaicensis*). Texas Comptroller of Public Accounts: Economic Growth and Endangered Species Management Division, 28 pp.
- Hatfield, J. S., Myrick, K. E., M. A. Huston, F. W. Weckerly, and M. C. Green. 2013. Vascular plant and vertebrate species richness in National Parks of the Eastern United States. Natural Resource Technical Report NPS/NCR/NCRO/NRTR—2013/002. Washington, D. C.
- Ricca, M. A., J. C. Williams, F. W. Weckerly, and Vincent Tutiakoff, Jr. 2012. Aerial survey of barren-ground caribou at Adak and Kagalaska Islands in 2012. U.S. Fish and Wildlife Service, Homer, AK. 14 pp.
- Weckerly, F. W. 2010. Karst invertebrate species survey protocols and trend analyses at Balcones Canyonlands Preserve. City of Austin, Texas. 21 pp.
- Weckerly, F. W., and J. R. Ott. 2008. Statistical trends of Golden-cheeked warblers on Balcones Canyonlands Preserve, City of Austin, Texas
- Krejca, J. K., and B. Weckerly. 2007. Detection probabilities of Karst invertebrates. Final Report, Texas Parks and Wildlife Department. 27 pp.
- Forstner, M. R. J., M. C. Jones, F. W. Weckerly, and T. R. Simpson. 2006. Small mammal response to prescribed fire in Bastrop State Park, Bastrop, Texas. Texas Parks and Wildlife Department contract # 158587. 33 pp.
- Manley, P. N., B. Van Horne, J. K. Roth, W. J. Zielinski, F. W. Weckerly, T. J. Weller, M. M. McKenzie, and C. Hargis. 2005. Multiple species inventory and monitoring—technical guide. U.S. Forest Service. 193 pp.
- Weckerly, F. W., and D. R. Francis. 2004. Elk in north coastal California: habitat suitability, sign survey utility, and population monitoring. Final Report, California Department of Fish and Game. 61 pp.



- Weckerly, F. W. 2003. Multispecies inventory and monitoring: survey options to detect presence of ungulate and lagomorph species. Final Report, Pacific Southwest Research Station, U.S. Forest Service. 9pp.
- Ott, J. A., and F. W. Weckerly. 2004. Recommended revisions to presence-absence surveys of golden-cheeked warblers. Final Report, U. S. Fish and Wildlife Service, Austin, Texas, USA. 13 pp.
- Weckerly, F. W., and M. L. Kennedy. 2002. An assessment of white-tailed deer at the Milan Army Ammunition Plant. Final Report, Milan Army Ammunition Plant, Milan, Tennessee, 52 pp.
- Weckerly, F. W. 2001. Elk habitat index in north coastal California: correlation with presence of sign. Final Report, California Department of Fish and Game, 30 pp.
- Weckerly, F. W. 1998. Minimum population size and pellet-group densities: Smith River population. Final Report, California Department of Fish and Game, 5 pp.
- Weckerly, F. W. 1998. Marine Corps Base, Camp Pendleton deer herd management plan. Final Report, U. S. Navy. 67pp.
- Weckerly, F. W. 1997. Monitoring Roosevelt elk in north coastal California: suitable habitat, sex ratio and sexual segregation, and population estimation. Final Report, California Department of Fish and Game. 56pp.
- Weckerly, F. W. 1996. Monitoring populations of Roosevelt elk in dense coniferous forest: patterns of distribution, development of distribution surveys and population simulation. Final Report, California Department of Fish and Game. 76pp.
- Weckerly, F. W., and M. A. Ricca. 1995. Developing a reliable population-monitoring program for Roosevelt elk occupying dense coniferous forest. Final Report, California Department of Fish and Game. 58pp.
- Weckerly, F. W., and J. R. Dunk. 1993. Assessment of habitat and population size of the deer herd on Round Valley Tribal Land, Mendocino County, California. 24pp.
- McCullough, D. R., F. W. Weckerly, P. I. Garcia, and R. Evett. 1991. Development of reliable herd composition counts and population estimate for deer in coastal California. Final Report, California Department of Fish and Game. 110pp.
- Weckerly, F. W. 1991. Citations on guidelines for use of radio-telemetry. Pages 263 in R. H. Schmidt, R. H. Timm, and G. A. Guisti, Technical Coordinators. Columbian black-tailed deer workshop: selected references in biology and management. Hopland Field Station Publ. 102.
- McCullough, D. R., and F. W. Weckerly. 1991. Hopland Field Station deer studies. Pages 63-65 in R. H. Schmidt, R. H. Timm, and G. A. Guisti, Tech, Coord. Columbian black-tailed deer workshop: selected references in biology and management. Hopland Field Station Publ. 102.
- Gennaro, A. L., and F. W. Weckerly. 1982. Biotic species composition of a 15.26 acre area (Block 2) southwest of Portales, NM and impact of construction on the biota. Environmental Impact Report to City of Portales. 18pp.

**Book review:**

Weckerly, F. W. 2001. Review: Caswell, H. 2001. Matrix population models, 2<sup>nd</sup> ed. for Natural Resource Modeling 14:593-595.

**Articles in Popular Magazines**

Hewitt, D., F. Bryant, C. DeYoung, R. DeYoung, I. Castro-Arellano, W. Conway, B. Eikenhorst, L. Harveson, C. Hilton, R. Lopez, D. McBride, R. Simpson, M. Wagner, F. Weckerly, and N. Wilkins. 2018. Think you may have heard about chronic wasting disease. Texas Wildlife Magazine, February Issue. (*Outstanding Technical Article, Texas Chapter, The Wildlife Society, 2019*) <https://www.texas-wildlife.org/resources/publications/things-you-may-have-heard-about-chronic-wasting-disease>

**Papers presented at professional meetings:**

\*Presentation by student

- 2021 Rylander, R. J.\*, S. R. Fritts, A. S. Aspbury, F. W. Weckerly, T. R. Simpson, and M. A. Patten. 2021. Assessing the influence of urbanization on a kin-structured passerine, the black-crested titmouse. The Wildlife Society, October.
- 2021 Kurpiers, E. M.\*, and F. Weckerly. When can cropping rate compensate for increased vigilance? Texas Chapter, The Wildlife Society, February.
- 2021 Sontheimer, W.\*, and F. Weckerly. Static scaling between body mass and antler length in black-tailed deer. Texas Chapter, The Wildlife Society, February.
- 2021 Rylander, R. J.\*, S. R. Fritts, A. S. Aspbury, F. W. Weckerly, T. R. Simpson, and M. A. Patten. 2021. Welcome to suburbia: the effects of urbanization on a kin-structured songbird. Texas Chapter, The Wildlife Society, February.
- 2020 Koetke, L. J.\*, A. Duarte, and F. W. Weckerly. Elk population dynamics vary within and among herds. British Columbia Chapter, The Wildlife Society, Prince George, BC, March 2020.
- 2020 Koetke, L. J.\*, A. Duarte, and F. W. Weckerly. Elk population dynamics vary within and among herds. British Columbia Chapter, Research Symposium, University of Northern British Columbia, Prince George, BC, April 2020.
- 2020 Espinoza, Z. S.\*, and F. W. Weckerly. Density-dependent changes in adult sex ratio in a Roosevelt elk population. Texas Chapter, The Wildlife Society, Corpus Christi, Texas, February 2020.
- 2020 Williamson, L. H.\*, and F. W. Weckerly. Herbivore abundance and weather affect food supply early in growing season. Texas Chapter, The Wildlife Society, Corpus Christi, Texas, February 2020.
- 2019 Koetke, L. J.\*, A. Duarte, and F. W. Weckerly. Population growth when carrying capacities vary. Texas Chapter, The Wildlife Society, Montgomery, Texas, February 2019. 2<sup>ND</sup> PLACE COTTOM AWARD GRAD. STUDENT PRESENTATION
- 2019 Spilinek, S. G.\*, F. W. Weckerly, and R. Reitz. Rumen-reticulum organ mass and rumen mucosa surface area of white-tailed deer consuming two energy diets. Texas Chapter, The Wildlife Society, Montgomery, Texas, February 2019. INVITED TO COTTAM AWARD PRESENTATION
- 2019 Williamson, L. H.\* and F. W. Weckerly. Elk forage response to prescribed fire in a meadow in Redwood National and State Parks. Texas Chapter, The Wildlife Society, Montgomery, Texas, February 2019.
- 2018 Weckerly, F. W., L. J. Koetke, and A. Duarte. Estimating carrying capacity of Roosevelt elk herds using state-space models and variation in strength of density dependence. International Deer Biology Congress, Estes Park, CO, August 2018.

- 2018 Koetke, L. J.\* and F. W. Weckerly. Comparing two state-space models for estimating dynamics of an elk population. International Deer Biology Congress, Estes Park, CO, August 2018.
- 2018 Koetke, L. J.\*, A. Duarte, and F. W. Weckerly. Comparing two population growth models for understanding elk population dynamics. Southwestern Association of Naturalists, San Marcos, Texas, April 2018.
- 2018 McGuire, A. S.\* and F. W. Weckerly. Roosevelt elk use and selection of a new meadow in Redwood National and State Parks. Texas Chapter, The Wildlife Society, Dallas, Texas, February 2018.
- 2018 Spilinek, S. G.\* and F. W. Weckerly. Tooth wear of white-tailed deer consuming pelleted ration and browse diet. Texas Chapter, The Wildlife Society, Dallas, Texas, February 2018.
- 2017 Wunderlich, W. T.\* F. W. Weckerly and R. L. Reitz. Autumn and winter body mass dynamics of female white-tailed deer and reproduction at Kerr WMA. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2017.
- 2017 McGuire, A. S.\* and F. W. Weckerly. Roosevelt elk use of a new forage patch in Redwood National and State Parks. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2017.
- 2017 Tolliver, J. D. M.\*, F. W. Weckerly, M. C. Green, and A. A. Moore. Habitat associations of black rails with occupancy. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2017.
- 2017 Tolliver, J. D. M.\*, F. W. Weckerly, M. C. Green, and A. A. Moore. Influences on black rail detection and implications for survey techniques. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2017.
- 2016 Moore, Amanda, A.\*, M. C. Green, F. W. Weckerly, and J. D. M. Tolliver. Ghosts in the marsh determining the status of the eastern Black Rail in Texas. Eighth International Research Conference for Graduate Students, Texas State University, San Marcos, TX (November).
- 2016 Weaver, Sara, P.\*, T. R. Simpson, J. T. Baccus, and F. W. Weckerly. Baseline population estimates and microclimate data for newly established overwintering Brazilian free-tailed bat colonies in central Texas. North American Society for Bat Research, San Antonio, TX.
- 2016 Tolliver, James, D. M.\*, A. Moore, M. C. Green, and F. W. Weckerly. Influences on occupancy and detection in Texas. Waterbird Society Conference, New Bern NC., September.
- 2016 Duarte, A., F. W. Weckerly, M. Schaub, and J. S. Hatfield. Estimating golden-cheeked warbler immigration using integrated population models: implications for the spatial scale of conservation. INVITED. North American Ornithological Conference. Washington, D. C., August.
- 2016 Hargrave, A.\*, T. R. Simpson, D. Hahn, D. Rodriguez, F. Weckerly, and J. Gallagher. Sable antelope dietary analysis: a comparison of microhistology and TRNL sequence analysis. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2016.
- 2016 Kolbe, N. R.\*, and F. W. Weckerly. Effects of density independent and dependent factors on Roosevelt elk juvenile recruitment in Redwood National Park,

- California. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2016.
- 2016 Peterson, L. M.\*, and F. W. Weckerly. Social factors during feeding influence sexual segregation in Roosevelt elk. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2016.
- 2016 AuBuchon, K. J.\*, M. Elbroch, F. W. Weckerly, and T. R. Simpson. Determining impacts of diel cycle and lunar illumination on mountain lion hunting behaviors using kill site data. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2016.
- 2016 Tolliver, J. D. M.\*, A. Moore, M. C. Green, and F. W. Weckerly. Black rail occupancy and abundance in Texas. Texas Chapter, The Wildlife Society, San Antonio, Texas, February 2016.
- 2016 Duarte, A.\*, J. S. Hatfield, F. W. Weckerly, J. L. R. Jensen, J. E. Hines, J. D. Nichols, T. M. Swannack, M. R. J. Forstner, and M. C. Green. Population dynamics and habitat conservation for the golden-cheeked warbler. Golden-cheeked warbler Symposium, Austin, Texas, January 2016.
- 2015 Peterson, L. M.\*, and F. W. Weckerly. Does the density of males influence sexual segregation in Roosevelt elk? Interenational research conference for graduate students, Texas State University, November.
- 2015 AuBuchon, Kendall J., F. W. Weckerly, and T. R. Simpson. Diel and lunar influences on hunting behaviors of the mountain lionL America’s most widely distributed carnivore. Interenational research conference for graduate students, Texas State University, November.
- 2015 Thalmann, Johanna, C.\*, R. T. Bowyer, F. W. Weckerly, and D. R. McCullough. Antler and body size in black-tailed deer: retrospective analysis of cohort effects. American Society of Mammalogy, Jacksonville, Florida. June.
- 2015 Thalmann, Johanna, C.\*, R. T. Bowyer, F. W. Weckerly, and D. R. McCullough. Antler and body size in black-tailed deer: retrospective analysis of cohort effects. 11<sup>th</sup> Annual Western States Deer and Elk Workshop, Canmore, Alberta, Canada. May
- 2015 Thalmann, Johanna, C.\*, R. T. Bowyer, F. W. Weckerly, and D. R. McCullough. Antler and body size in black-tailed deer: retrospective analysis of cohort effects. Idaho Chapter, The Wildlife Society, March.
- 2015 Thalmann, Johanna, C.\*, R. T. Bowyer, F. W. Weckerly, and D. R. McCullough. Antler and body size in black-tailed deer: retrospective analysis of cohort effects. Idaho State University, March.
- 2015 Duarte, A.\*, F. W. Weckerly, and J. S Hatfield. Estimating golden-cheeked warbler immigration: implications for conservation. Texas Chapter, The Wildlife Society, Corpus Christi, TX, February. 1<sup>ST</sup> PLACE COTTOM AWARD GRAD. STUDENT PRESENTATION
- 2015 Bhaskar, G.\*, and F. W. Weckerly. Birth mass scaling in *Cervus elaphus*. Texas Chapter, The Wildlife Society, Corpus Christi, TX, February.
- 2015 Peterson, L. M.\*, and F. W. Weckerly. Is sexual segregation in Roosevelt elk (*Cervus elaphus roosevelti*) influenced by male density? Texas Chapter, The Wildlife Society, Corpus Christi, TX, February.

- 2015 Kolbe, N. R.\* and F. W. Weckerly. Home-range overlap of Roosevelt elk (*Cervus elaphus roosevelti*). Texas Chapter, The Wildlife Society, Corpus Christi, TX, February.
- 2015 Harrod, S. E.\*, Green, M. C., F. W. Weckerly, and T. R. Simpson. Effects of landscape characteristics on nesting ecology of cavity-nesting birds. Texas Chapter, The Wildlife Society, Corpus Christi, TX, February.
- 2015 Hargrave, A. C.\*, T. R. Simpson, F. W. Weckerly, D. Hahn, and J. Gallagher. Seasonal diests of sable antelope at Mason Mountain Wildlife Management Area. Texas Chapter, The Wildlife Society, Corpus Christi, TX, February.
- 2014 Weckerly, F. W. Population irruption by Roosevelt elk. American Society of Mammalogy, Oklahoma City, OK, June.
- 2014 Duarte, A. \*, F. W. Weckerly, and J. S. Hatfield. Estimating immigration rate for golden-cheeked warblers using integrated population models. Texas Academy of Science, Galveston, TX, March.
- 2014 Duarte, A. \*, F. W. Weckerly, and J. S. Hatfield. Using integrated population models to estimate immigration rate for golden-cheeked warblers. Texas Academy of Science, Galveston, TX, March.
- 2014 Starns, H. D. \*, M. A. Ricca, A. Duarte, and F. W. Weckerly. Irruptive dynamics in a population of Roosevelt elk. Texas Chapter, The Wildlife Society, Austin, TX, February.
- 2014 Aiken, M. E. \*, D. M. Wolcott, H. D. Starns, R. S. Luna, A. Duarte, and F. W. Weckerly. Variation in rumen-reticulum fill in white-tailed deer. Texas Chapter, The Wildlife Society, Austin, TX, February.
- 2013 Luna, R. S. \*, D. Hahn, and F. W. Weckerly. Temporal variations in rumen-reticulum fill, micro-organism abundance and absorptive capacity in southern white-tailed deer. Texas Academy of Science, Kerrville, TX, March.
- 2013 Wolcott, D. M. \*, J. Asmus, and F. W. Weckerly. Compensatory growth in southern mule deer. Texas Academy of Science, Kerrville, TX, March.
- 2013 Duarte, A. \*, J. L. Jensen, J. S. Hatfield, and F. W. Weckerly. Oak-juniper woodlands of central Texas: a decade of change. Texas Academy of Science, Kerrville, TX, March.
- 2013 Luna, R. S. \*, D. Hahn, and F. W. Weckerly. Temporal variations in rumen-reticulum fill, micro-organism abundance and absorptive capacity in southern white-tailed deer. Texas Chapter, The Wildlife Society, Houston, TX, February.
- 2013 Wolcott, D. M. \*, J. Asmus, and F. W. Weckerly. Compensatory growth in southern mule deer. Texas Chapter, The Wildlife Society, Houston, TX, February.
- 2013 Duarte, A. \*, J. L. Jensen, J. S. Hatfield, and F. W. Weckerly. Oak-juniper woodlands of central Texas: a decade of change. Texas Chapter, The Wildlife Society, Houston, TX, February.
- 2013 Julian, A. \*, and F. W. Weckerly. Group size dynamics of female Roosevelt elk in the Prairie Creek and lower Redwood Creek drainages, Redwood National and State Parks. Texas Chapter, The Wildlife Society, Houston, TX, February.
- 2013 Duarte, A. \*, J. S. Hatfield, J. E. Hines, J. D. Nichols, and F. W. Weckerly. Adult and juvenile survival of male golden-cheeked warblers on the Fort Hood Military Reservation. 2013 Golden-cheeked warbler Symposium, Austin, Texas.

- 2012 Luna, R. S.\*, A. Duarte, and F. W. Weckerly. Rumen-reticulum characteristics, scaling relationships and ontogeny in white-tailed deer (*Odocoileus virginianus*). Interenational research conference for graduate students, Texas State University, November.
- 2012 Wolcott, D. M., and F. W. Weckerly. Compensatory growth in southern mule deer. Interenational research conference for graduate students, Texas State University, November.
- 2012 Parra, C., and F. W. Weckerly. Body weight and age influences on liver weight in white-tailed deer (*Odocoileus virginianus*): implications for reproductive effort. Interenational research conference for graduate students, Texas State University, November.
- 2012 Duarte, A., and F. W. Weckerly. Adult and juvenile survival of male golden-cheeked warblers on the Fort Hood military reservation. Interenational research conference for graduate students, Texas State University, November.
- 2012 Luna, R. S.\*, A. Duarte, and F. W. Weckerly. Body size influence on dietary nutrition of white-tailed deer. Texas Chapter, The Wildlife Society, Ft. Worth, TX, February.
- 2012 Weaver, S. P.\*, T. R. Simpson, J. T. Baccus, and F. W. Weckerly. Baseline population estimates and microclimate habitat analysis of overwintering Brazilian free-tailed bats in central Texas. Texas Chapter, The Wildlife Society, Ft. Worth, TX, February.
- 2012 Pina, V.\*, Simpson, T. R., F. L. Rose, and F. Weckerly. Dietary changes of the Texas River Cotter (*Pseudemys texana*) at Spring Lake, Hays County, Texas. Texas Chapter, The Wildlife Society, Ft. Worth, TX, February.
- 2012 Flores, J. C.\*, T. R. Simpson, F. W. Weckerly, and M. C. Green. Thermal relationships and nesting ecology of the Texas river cooter (*Psuedemys texana*) and red-eared slider (*Trachemys scripta elegans*) at Spring Lake, Hays County, Texas. Texas Chapter, The Wildlife Society, Ft. Worth, TX, February.
- 2011 Weyland, D. M.\*, D. E. Minier, I. Wright, F. Weckerly, B. McCowan, and B. Shaffer. Impacts of an invasive turtle species (*Trachemys scripta*) on basking behavior of the western pond turtle (*Emys marmorata*) in an urban waterway. Interenational research conference for graduate students, Texas State University, November.
- 2011 Weyland, D. M.\*, D. E. Minier, H. B. Shaffer, and F. W. Weckerly. Interspecific aggression between native (*Emys marmorata*) and invasive (*Trachemys scripta*) pond turtles does not result in displacement of the native species. Ecological Society of American, Austin, Texas, August.
- 2011 Weaver, S. P.\*, T. R. Simpson, J. T. Baccus, and F. W. Weckerly. Microclimate characteristics of Brazilian free-tailed bat overwintering sites in central Texas. Ecological Society of American, Austin, Texas, August.
- 2011 Duarte, A.\*, R. S. Luna, and F. W. Weckerly. Dynamics of rumen-reticulum capacity and fill in female white-tailed deer. Ecological Society of American, Austin, Texas, August.
- 2011 Weckerly, F. W. Density-associated changes in group sizes of male and female elk and use of meadows. The American Society of Mammalogists, Portland, Oregon, June.

- 2011 Asmus, J. L., and F. W. Weckerly. Evaluating the precision of cementum annuli analysis for aging mule deer from southern California. Western Section, The Wildlife Society, Riverside, CA, February.
- 2010 Weckerly, F. W., and J. Foster. Blind count surveys of white-tailed deer and population estimates using Bowden's estimators. The American Society of Mammalogists, Laramie, Wyoming, June.
- 2010 Warren, C.\*, J. Ott, and F. Weckerly. Did you hear something? The influence of density-dependent singing behavior on the reliability of population estimates for passerine birds. Southwestern Association of Naturalists, Junction, Texas, April.
- 2010 Hunt, J.\*, J. Ott, and F. Weckerly. Estimating occupancy and abundance for populations of the golden-cheeked warbler, *Dendroica chrysoparia*, in central Texas. Southwestern Association of Naturalists, Junction, Texas, April.
- 2010 Weckerly, F. W., and J. Foster. Blind count surveys of white-tailed deer and population estimates using Bowden's estimators. Southeastern Deer Study Group, San Antonio, Texas, March.
- 2010 Luna, R. S.\*, and F. W. Weckerly. Effects of high protein vs. natural forage diets on rumen-reticulum morphology in white-tailed deer. Southeastern Deer Study Group, San Antonio, Texas, March.
- 2010 Foster, J., M. Mitchell, K. Schwausch, R. Reitz, F. Weckerly, and J. Carroll. Comparative analysis of population estimators in a known population of white-tailed deer. Texas Chapter, The Wildlife Society, Galveston, Texas, February.
- 2010 Hunt, J.\*, J. R. Ott, and F. W. Weckerly. Occupancy estimation from point counts. City of Austin, Golden-cheeked warbler monitoring workshop, Austin, Texas, February.
- 2010 Warren, C., J. R. Ott, and F. W. Weckerly. Golden-cheeked warbler abundance and detection correlation. City of Austin, Golden-cheeked warbler monitoring workshop, Austin, Texas, February.
- 2010 Weckerly, F. W., and J. Foster. Blind count surveys of white-tailed deer and population estimates using Bowden's estimators. Texas Chapter, The Wildlife Society, Galveston, Texas, February.
- 2010 Luna, R. S.\*, and F. W. Weckerly. Effects of high protein vs. natural forage diets on rumen-reticulum morphology in white-tailed deer. Texas Chapter, The Wildlife Society, Galveston, Texas, February.
- 2010 Reitz, R., M. Mitchell, K. Schwausch, J. Foster, F. Weckerly, and J. Carroll. Comparative analysis of population estimators in a known population of white-tailed deer. Texas Chapter, The Wildlife Society, Galveston, Texas, February.
- 2010 Hunt, J.\*, F. W. Weckerly, and J. R. Ott. Occupancy and abundance estimates of golden-cheeked warblers on multiple areas of the Balcones Canyonlands Preserve. Golden-cheeked warbler symposium, Austin, Texas, January.
- 2010 Warren, C.\*, J. R. Ott, and F. W. Weckerly. Singing behavior – density correlates in golden-cheeked warblers. Golden-cheeked warbler symposium, Austin, Texas, January.
- 2009 Warren, C.\*, J. R. Ott, and F. W. Weckerly. Singing behavior – density correlates in golden-cheeked warblers. International Research Conference for Graduate Students, Texas State University, November.

- 2009 Krejca, J. K. Detection probabilities of Karst Invertebrates in Central Texas. 15<sup>th</sup> International Congress of Speleology, Kerrville, Texas, July.
- 2009 Jonker, A.\*, and F. W. Weckerly. Occupancy – abundance relationships of songbirds on Camp Swift, Texas. Texas Chapter, The Wildlife Society, Lubbock, Texas, February.
- 2009 Luna, R. A.\*, and F. W. Weckerly. Variation in rumen-reticulum weights of white-tailed deer. Texas Chapter, The Wildlife Society, Lubbock, Texas, February.
- 2008 Weckerly, F. W., and J. R. Ott. Trends in territory density of golden-cheeked warblers on BCP lands managed by the City of Austin. BCP Minisymposium, University of Texas, Austin, October.
- 2008 Hunt, J.\*; F. W. Weckerly, and J. R. Ott. Monitoring golden-cheeked warblers on the Balcones Canyonland Preserve: are to survey and estimation techniques. BCP Minisymposium, University of Texas, Austin, October.
- 2008 Hatfield, J. S., K. E. Myrick, M. Huston, F. W. Weckerly, and M. C. Green. Comparison of Vascular Plant Species Richness and Vertebrate Species Richness in National Parks of the Eastern United States. Symposium: Spotlight on National Park Resources in the National Capital Region. Washington, D.C., March.
- 2008 Weckerly, F.W. Scaling relationships of rumen-reticulum capacity of white-tailed deer. Texas Chapter, The Wildlife Society, San Antonio, Texas, February.
- 2007 Watson, C.\*; Weckerly, F.W.; Hatfield, J.S.; Farquhar, C.C.; Williamson, P.W. Detection Probabilities, Occupancy, and Survey Effort of Golden-cheeked Warblers (*Dendroica chrysoparia*) Using Detection – Nondetection Surveys. Partners in Flight, McAllen, Texas, December.
- 2007 Krejca, J.K. and F. Weckerly. Detection probabilities of karst invertebrates in Central Texas. National Cave and Karst Management Symposium. St. Louis, Missouri, November.
- 2007 Weckerly, F. W. Niche divergence and social behavior in size dimorphic ruminants. Department of Biology, Texas State University, September
- 2007 Weckerly, F. W. Density associated meadow selection by male and female Roosevelt elk. American Society of Mammalogy, Albuquerque, NM, June.
- 2007 Ferguson, A. W.\*, N. A. Curitt, and F. W. Weckerly. Allometry in home range sizes of male and female bobcats. American Society of Mammalogy, Albuquerque, NM, June.
- 2007 Myrick, K.\*, M. Huston, J. S. Hatfield, F. W. Weckerly, and M. C. Green. The effectiveness of a vegetation-based approach for estimating vertebrate species diversity. The George Wright Society, St. Paul, Minnesota, April.
- 2007 Grobe, K. M.\*, T. R. Simpson, J. Baccus, and F. W. Weckerly. Nest site selection by western Kingbirds (*Tyrannus verticalis*) in an urban environment. Southwestern Association of Naturalists, Stephenville, TX, April.
- 2007 Stephenson, S. E.\*, and F. W. Weckerly. Forage selection and sexual segregation of scimitar horned oryx on Mason Mountain Wildlife Management Area. Texas Chapter, The Wildlife Society, Beaumont, Texas, February.



- 2006 Weckerly, F. W. Constant proportionality in counts in the female segment of a Roosevelt elk population. American Society of Mammalogists, University of Massachusetts, Amherst. June.
- 2006 Richardson, K. E.\*, and F. W. Weckerly. Social incompatibility, alarm state, and sexual segregation in urban white-tailed deer. American Society of Mammalogists, University of Massachusetts, Amherst. June.
- 2006 Watson, C. A.\*, and F. W. Weckerly. Estimating detection probabilities of Golden-cheeked Warblers. Texas Academy of Science, Beaumont, Texas, March.
- 2006 Longoria, M. P.\*, and F. W. Weckerly. Estimating detection probabilities from sign of collared Peccary. Texas Chapter, The Wildlife Society, South Padre Island, Texas, February.
- 2006 Weckerly, F. W. Change in proportion of a Roosevelt elk population counted. Texas Chapter, The Wildlife Society, South Padre Island, Texas, February.
- 2006 Osborne, L. C.\*, T. R. Simpson, F. L. Rose, and F. W. Weckerly. Habitat use by the Texas River Cooter in Spring Lake, Hays County, Texas. Texas Chapter, The Wildlife Society, South Padre Island, Texas, February.
- 2005 Weckerly, F. W. Polygyny, resource selection, and detection-nondetection sampling: what do they have in common? Presentation, BIO 7102, How to be a scientist: Perspective, Texas State University, October.
- 2005 Weckerly, F. W. Adult sex ratio and meadow selection in a Roosevelt elk population. American Society of Mammalogists, SW Missouri State University, June.
- 2005 Forstner, M. R. J.\*, M. Jones, J. Jackson, K. Greuter, T. Swannack, B. Weckerly, and J. Baccus. Aspects of Houston toad ecology critical to management options. Texas Parks and Wildlife Department, Bastrop, Texas, June.
- 2005 Forstner, M. R. J.\*, M. Jones, J. Jackson, K. Greuter, F. Weckerly, J. Baccus, and T. Swannack. Collaborative restoration of Houston toad habitat. United States Fish and Wildlife Service. Austin, Texas, April.
- 2005 Francis, D. R.\*, and F. W. Weckerly. Influence of opening weekend and weather on white-tailed deer harvests at Milan Army Ammunition Plant, Tennessee. Texas Chapter, The Wildlife Society, Amarillo, Texas, February.
- 2005 Longoria, M. P.\*, and F. W. Weckerly. Using motion-triggered cameras to estimate habitat use by Collared Peccaries. Texas Chapter, The Wildlife Society, Amarillo, Texas, February.
- 2005 Weckerly, F. W. Ongoing study of a Roosevelt elk population: adult sex ratio variation and meadow selection. Seminar, Department of Biology, Texas State University – San Marcos, February.
- 2005 Weckerly, F. W. Bald Hills elk survey. Seminar, Redwood National and State Parks. Orick, California, January.
- 2004 Weckerly, F. W., C. A. Baker, J. S. Hatfield, C. Sexton, C. G. Farquhar, and J. A. Ott. Estimating detection probabilities of Golden-cheeked warblers. Golden-cheeked Warbler Symposium and Recovery Workshop. Austin, Texas, November.
- 2004 Weckerly, F. W. Population size, sex ratio and constant proportionality of indices for an elk population: preliminary findings. Southwestern Association of Naturalists, San Antonio, Texas, April.

- 2004 White, C. \*, T. Simpson, R. Manning, and F. Weckerly. Avian habitat affinity in the Lost Pines region of Texas. The Wildlife Society, Kerrville, Texas, February.
- 2004 Weckerly, F. W., and J. Ott. Golden-cheeked Warbler workshop on presence-absence protocol. USFS, Austin, Texas, March.
- 2004 Weckerly, F. W. Relationships between meadows and Roosevelt elk density in a temperate rainforest. Texas Chapter, The Wildlife Society, Kerrville, Texas, February.
- 2004 Longoria, M. P.\*, and F. W. Weckerly. Evaluating counting errors in photographs of collared peccaries taken with infrared motion-triggered cameras. The Wildlife Society, Kerrville, Texas, February.
- 2004 White, C. \*, T. Simpson, R. Manning, and F. Weckerly. Avian habitat affinity in the Lost Pines region of Texas. The Wildlife Society, Kerrville, Texas, February.
- 2003 Weckerly, F. W. Relationships of Roosevelt elk with size and proximity of patches. American Society of Mammalogists. Texas Tech University, June.
- 2003 Weckerly, F. W. Body weight and rumen-reticulum capacity in Tule elk and Mule deer. Southwestern Association of Naturalist. University of Oklahoma, April.
- 2003 Weckerly, F. W. Hunter effort and harvest relationships of white-tailed deer on Milan Ammunition Plant, Tennessee. Texas Chapter, The Wildlife Society, Waco, TX, February.
- 2001 Weckerly, F. W. Agreement in age estimates from pairs of incisorform teeth of mule deer. Western Section, The Wildlife Society, Sacramento, CA. February.
- 1997 Weckerly, F. W. Density and stability of female-juvenile groups of Roosevelt elk. The Wildlife Society. Snowmass, CO. September.
- 1997 Weckerly, F. W. Is selective feeding behavior correlated to sexual segregation among black-tailed deer and Roosevelt elk? The Wildlife Society. September.
- 1996 Weckerly, F. W. Developing a reliable monitoring program from Roosevelt elk populations occupying dense coniferous forests. Western Section Wildlife Society, Symposium on Ecological Monitoring, Reno, NV. February.
- 1994 Weckerly, F. W. Selective feeding by black-tailed deer: is searching or handling the dominant process? The Wildlife Society, Albuquerque, NM. September.
- 1993 Weckerly, F. W. Influence of fertilized pastures on movements by black-tailed deer. American Society of Mammalogy, Bellingham, WA. June.
- 1992 Weckerly, F. W. Sexual segregation in free ranging black-tailed deer: a lack of intersexual differences in feeding behavior. American Society of Mammalogy, Salt Lake City, UT. June.
- 1992 Weckerly, F. W. Factors that bias herd composition counts of black-tailed deer in coastal California. Western Section Conference, The Wildlife Society. San Diego, CA. February.

**Invited talks:**

- 2020 Elk food supply in Davison meadows in January. Redwood National Park, Orick, CA, January.
- 2019 Elk herd dynamics in Redwood National and State Parks: 1997 – 2018. Yurok Tribe Elk Summit, Klamath, CA, January.
- 2019 Elk in and near Orick. Orick Community Center, CA, January.

- 2018 Elk population dynamics in the Bald Hills and Orick Mill Site. Redwood National Park, Orick, CA, January.
- 2017 Population dynamics and habitat conservation for the golden-cheeked warbler. Seguin Master Naturalist Association, Texas, June.
- 2017 Stewardship of elk in Redwood National and State Parks. EcoSeries, Department of Wildlife, Humboldt State University, January.
- 2017 Stewardship of park elk. Redwood National Park, Orick, CA, January.
- 2016 Distribution of elk herds in Redwood National and State Parks. Redwood National Park, Orick, CA, January.
- 2015 Why do neighborhood deer thrive? Urban deer workshop, Texas Parks and Wildlife Department. San Marcos, TX. May.
- 2015 Behavior and ecology of male elk in Redwood National Park. Redwood National Park, Orick, CA. January.
- 2014 Cohort effects, natal features and growth of long-lived mammals. Trinity University, Seminar Series in Biomathematics, San Antonio, TX.
- 2014 Population irruption by Roosevelt elk. Trinity University, San Antonio, TX. April.
- 2013 Elk and prescribed fire in the redwood ecosystem. Redwood National and State Parks, Orick, CA. January.
- 2012 Elk and the road. Redwood National Park, Orick, CA, January.
- 2011 My summer in the gray beast: field work in the Aleutian Islands. Student Chapter, The Wildlife Society, Texas State University, September.
- 2011 How many bulls in the Prairie Creek drainage? Redwood National and State Parks, Orick, CA. January.
- 2010 Sighting heterogeneity and Bowden's estimator. Research Design and Analysis working group, Texas State University. May
- 2010 Why do the Prairie Creek elk stay put? Redwood National and State Parks, Orick, CA. January.
- 2009 Chasing elk in the Parks: Progress Report and Future Plans, Redwood National and State Parks, Orick, CA. January.
- 2007 Fundamentals of population enumeration. Two lectures, BIO 5428, Population biology II, Spring.
- 2007 Sex ratio and population abundance of elk in the Prairie Creek drainage: 10 plus years and still ongoing. Redwood National and State Parks, Orick, CA. January.
- 2006 Occupancy models: should I use this stuff? Texas Parks and Wildlife Department, Austin, TX. November.
- 2005 Fundamentals of Population estimation. Two lectures, Graduate level Population Biology, Spring.
- 2002 Sexual segregation in Roosevelt elk: can the sexes coexist in the same group? Seminar-University of Louisiana-Lafayette, November.
- 2002 Sexual segregation in Roosevelt elk: behavior of genders in mixed-sex groups. Seminar- Southwest Texas State University, San Marcos, TX. March.
- 2001 Sexual segregation in large herbivores: voracious females and bossy males. Seminar, USFS Redwood Science Laboratory. Arcata, CA. October.
- 2001 Body size, social behavior, and sexual segregation in Roosevelt elk. Seminar, Oklahoma State University. February.

- 2000 Can functional relationships in habitat use be estimated from presence of elk sign? Seminar, University of Alaska-Fairbanks. June.
- 1999 Social dimensions to segregation among Roosevelt elk. Seminar, Oregon State University. May.
- 1998 Roosevelt elk and habitat use: What does all the sign mean? Seminar, West Virginia University. October.
- 1998 Using presence of sign to measure habitat use in Roosevelt elk. Seminar, Department of Mathematics, HSU. September.
- 1998 The social dimension in sexual segregation of Roosevelt elk. Seminar, University of Alaska-Fairbanks. May.
- 1998 Sexual segregation and social behavior in Roosevelt elk. Seminar, Eastern New Mexico University. March.
- 1997 The evolution of stable groups of female-juvenile Roosevelt elk. Seminar, Texas Tech University. October.
- 1997 Sexual segregation in black-tailed deer and Roosevelt elk is not correlated with selective feeding behavior. Seminar, University of Rhode Island. July.
- 1996 Monitoring elk in northern California. Eureka Rotarians. November.
- 1996 Sexual segregation in black-tailed deer and Roosevelt elk: is it correlated with selective feeding behavior? Seminar, University of Alaska-Fairbanks. October.
- 1995 Sexual segregation in ruminants: Can selective feeding explain sexual segregation? Seminar, Kent State University. Kent, OH. June.
- 1995 Is sexual size dimorphism correlated with selective feeding behavior in deer? Seminar, Illinois Natural History Survey, Champaign, IL. April.
- 1994 Delineating trade-offs to efficient foraging in ungulates. Seminar, Department of Zoology and Physiology. University of Wyoming. November.
- 1994 Are intersexual home range patterns linked to foraging processes in deer? Seminar, Department of Biology, Frostburg State University, MD. April.
- 1993 Sexual segregation deer: ecological and management implications. Seminar, Division of Biology, Kansas State University. November.
- 1992 Biodiversity: how much is enough? (member panel discussion) Eighteenth Annual Fish and Wildlife Conference, Humboldt State University. April.
- 1992 Deer Research at Hopland Field Station. Student Chapter, The Wildlife Society, Humboldt State University. March.
- 1992 Sexual segregation: test of the body size hypothesis. Seminar, Department of Biological Sciences, University of Montreal, January.
- 1991 Intersexual resource partitioning in deer: a test of the body size hypothesis. Seminar, Department of Wildlife, Humboldt State University. September.
- 1991 Intersexual resource partitioning in black-tailed deer. Seminar, Department of Wildlife and Fisheries Sciences, South Dakota State University. June.
- 1991 Intersexual resource partitioning in deer: how important is body size? Seminar, Museum of Vertebrate Zoology, University of California, Berkeley. May.
- 1991 New use of radio telemetry in wildlife management. Columbian black-tailed deer workshop. Hopland Field Station. April.

**Invited talks Graduate students**

- 2013 Duarte, A.\* Population dynamics and habitat conservation for the Golden-cheeked warbler. Patuxent's Partners Seminar Series, Patuxent National Wildlife Refuge, December.

**Scholarship used in Endangered Species petition**

- Three papers of Dissertation student Adam Duarte were cited in USFWS finding on a petition to remove the golden-cheeked warbler from the list of endangered and threatened wildlife (Federal Docket No. FWS-R2-ES-2016-0062).

**Consultancies:**

- 2015 Habitat Restoration, Humboldt County, California, Save the Redwoods League.  
2010 Time trends of threatened and endangered Karst Invertebrates, City of Austin, Texas.  
2008 Statistical trends in territory densities of Golden-cheeked warblers on Balcones Canyonlands Preserve, City of Austin, Texas.  
2004 Effectiveness of presence-absence surveys for Golden-cheeked warblers. U. S. Fish and Wildlife Service. Austin Ecological Services Office.  
2003 Multispecies inventory and monitoring: survey options to detect presence of ungulate and lagomorph species. U. S. Forest Service, Pacific Southwest Research Station, Arcata, California.

**Workshops:**

- 2018 Chaired, symposium on 'Carrying capacity – an old concept with new uses,' International Deer Biology Congress, Estes Park, CO, August.  
2016 Bayesian workshop (June 1 – 3), Texas State University, Workshop presented theory and application of state-of-the-art Bayesian statistics; attendance 30, a national audience of conservation and wildlife professionals – academicians  
2014 Occupancy Estimation and Modeling Workshop (Dec 15 – 16), Autonomous University of Neovo Leon, Monterrey, Mexico. Workshop presented theory and application of Occupancy Models; attendance – 15. Biologists with the University.  
2010 Golden-cheeked warbler symposium (Feb. 15), City of Austin, Texas. Co-organized (City of Austin biologists and Dr. Jim Ott) and hosted investigators studying the ecology, management, and conservation of the federally endangered song bird at the Balcones Canyonlands Preserve. Attendance was 30. Investigators were from Texas, Missouri and Maryland.  
2006 Occupancy Estimation and Modeling Workshop (31 May – 2 June), Texas State University – San Marcos. Workshop presented theory and application of state-of-the-art Occupancy Estimation Models; attendance (projected 30, actual 40) by an international audience of conservation and wildlife professionals – academicians.

**GRANTS AND CONTRACTS**

**Funded external grants:**

- 2016 Weckerly, F. W. Carrying capacity of Roosevelt elk herds in Redwood National

- and State Parks. \$24,000. Save the Redwoods League
- 2014 Weckerly, F. W., M. C. Green. RFP No. 209g for Endangered Species Research Projects for the Black Rail. Texas Comptrollers Office. \$199,462.
- 2014 Green, M. C., B. Pickens & F. W. Weckerly. Occupancy, distribution, and abundance of black rails along the Texas Gulf Coast. Section 6 Texas Parks and Wildlife. \$154,511.
- 2013 Diaz, P. F. W. Weckerly. Contaminants in *Eurycea* Salamanders. USFWS. \$3,500/
- 2011 Weckerly, F. W. Supplemental feeding of white-tailed deer: diet and animal quality. Houston Safari Club. \$3,000
- 2011 Hatfield, J. S., and F. W. Weckerly. Range-wide metapopulation viability analysis for the golden-cheeked warbler. Science Support Proposal, U. S. Fish and Wildlife Service. \$109,132.
- 2009 Weckerly, F. W., and J. R. Ott. Golden-cheeked warbler monitoring symposium. City of Austin, Texas. \$5,891.
- 2009 J. R. Ott and F. W. Weckerly. Trend analysis and sampling protocol development for karst invertebrate species within the Balcones Canyonlands Preserve. City of Austin, Texas. \$17,494.
- 2009 Ott, J. R., and F. W. Weckerly. Singing Rate of Golden-cheeked Warblers as a Function of Territory Density: the Ecological Basis of the Relationship Between Territory Density and Warbler Detectability. City of Austin, Texas. \$12,689.
- 2009 Weckerly, F. W. Population monitoring of elk in and adjacent to Redwood National and State Parks. Alamo Chapter, Safari Club International. \$1,000.
- 2008 Ott, J. R., and F. W. Weckerly. Understanding sources of variation in detectability among sites and across the breeding season in Golden-Cheeked Warblers. City of Austin. \$12,569.
- 2008 Forstner, F., J. Flanagan, D. Han, J. Johnson, J. Koukyl, W. Nowlin, S. Platt, T. Simpson, F. Weckerly and X. Zhang. Assessing Texas Freshwater turtles. Texas Horned Lizard License Fee Grant, Texas Parks and Wildlife Department. \$649,621.
- 2007 Ott, J. R. and F. W. Weckerly. Spot mapping, occupancy and monitoring golden-cheeked warbler. City of Austin, TX. \$30,435.
- 2007 Weckerly, F. W., and M. C. Green. Annual bird survey of Camp Swift. Texas Military Forces. \$35,827.
- 2007 Weckerly, F. W. Population and sex ratio trends in a Roosevelt elk population. Alamo Safari Club. \$2,000.
- 2007 Ott, J. R. and F. W. Weckerly. Analysis of nine years of longitudinal population density estimates of Golden cheeked warblers, City of Austin, Balcones Canyonlands Preserve Program. \$19,210.
- 2006 Weckerly, F. W. and S. T. Stephenson. Resource selection of female and male Waterbuck and Scimitar-horned oryx. Dallas Safari Club. \$1,500.
- 2006 Weckerly, F. W. and C. J. Faas. Influence of Axis deer on spatial patterns of white-tailed deer: an experiment. Dallas Safari Club. \$1,412.
- 2006 Hatfield, J. S. and F. W. Weckerly. Effectiveness of vegetation based approach to monitor vertebrate resources. U. S. Geological Service. \$29,300.
- 2005 Weckerly, F. W. Population trends and sex-ratios of Roosevelt elk in Redwood National and State Parks. Alamo Safari Club. \$2,000.

- 2004 Weckerly, F. W., J. S. Hatfield, C. A. Baker, C. G. Farquhar, C. Sexton, and D. Holle. Estimating detection probabilities of Golden-cheeked Warblers. U.S. Geological Service. \$74,964.
- 2004 Weckerly, F. W. Roosevelt elk population counts in Redwood National and State Park. Houston Safari Club. \$1,000.
- 2004 Weckerly, F. W., D. M. Ferrell, and M. O'Day. 2004. Body weight and gut capacity in Axis deer (*Axis axis*). Alamo Safari Club. \$1,000.
- 2003 Ott, J. R., and F. W. Weckerly. 2003. Golden cheek warbler monitoring. U.S. Fish & Wildlife Service. \$3,221.
- 2003 Weckerly, F. W. Multispecies monitoring of ungulates and lagomorphs. Pacific Southwest Research Station, U.S. Forest Service. \$4,797.
- 2002 Callas, R., H. Sakai, L. Diller, and F. Weckerly. Elk population assessment and habitat model validation in northern California. Rocky Mountain Elk Foundation and California Department of Fish and Game. \$60,358.
- 2001 Weckerly, F. W. Density area relationships for wildlife: resource availability or movement? Humboldt State University minigrant. \$500.
- 2001 Weckerly, F. W. Evaluating suitability of habitats for elk in north coastal California. Granite Bay Chapter/Safari Club International. \$1,600.
- 1998 Weckerly, F. W., and K. E. Kovacs. North coast elk herds: assessing distribution, habitat, and implementing DNA-fecal pellet population estimation methodology. Rocky Mountain Elk Foundation and California Department of Fish and Game. \$38,400.
- 1997 Weckerly, F. W., and M. Rizzardi. Development of deer herd management plan at Camp Pendleton. U. S. Navy. \$29,048.
- 1996 Weckerly, F. W. Monitoring habitats and populations of Roosevelt elk in densely vegetated landscapes. Rocky Mountain Elk Foundation and California Department of Fish and Game. \$57,000.
- 1995 Weckerly, F. W. 1995. The utility of distribution surveys for monitoring Roosevelt elk populations in coniferous rain forests. Rocky Mountain Elk Foundation and California. \$55,000.
- 1994 Weckerly, F. W. Monitoring elk populations in closed-canopied forests. Rocky Mountain Elk Foundation and California Department of Fish and Game. \$27,000.
- 1994 Weckerly, F. W. Estimating population abundance and demographic characteristics of Roosevelt elk in closed habitats. California Department of Fish and Game. \$8,000.
- 1993 Weckerly, F. W., and D. W. Kitchen. Deer abundance and habitat evaluation on Round Valley Indian Reservation. Bureau of Indian Affairs. \$9320.
- 1990 Weckerly, F. W. 1990. Activity patterns and habitat use of coastal black-tailed deer. Mendocino county Fish and Game Advisory Committee. \$500.
- 1990 McCullough, D. R., and F. W. Weckerly. Development of reliable herd composition counts and population estimates for deer in coastal California. California Department of Fish and Game. \$40,000.
- 1982 Gennaro, A. L., and F. W. Weckerly. Biotic species composition of a 15 acre area near Portales, NM: impact of construction on the biota. City of Portales, New Mexico. \$500.
- 1982 Gennaro, A. L., and F. W. Weckerly. Systematics of rock pocket mice

(*Chaetodipus intermedius*) on New Mexico lava fields. New Mexico Department of Game and Fish. \$1000.

**Funded internal grants:**

2002 Weckerly, F. W. Javalina and the landscape: using motion sensitive cameras to estimate resource selection. Research Enhancement Grant, Texas State University. \$8,000.

**Other:**

Certified Wildlife Biologist, The Wildlife Society (2000 – present)

**Courses taught:**

2002 – present Texas State University – San Marcos

Graduate Courses

Statistics and Experimental Design I  
Statistics and Experimental Design II  
Conservation and Natural History of Large Mammals  
Wildlife Statistics

1994 – 2002 Interdisciplinary Biometry Program – Humboldt State University

Undergraduate Courses

Elementary Biometry  
Elementary Statistics  
Intermediate Statistics

Graduate Courses

Experimental Design and Analysis of Variance  
Data collection and Analysis

1991 – 1994 Department of Wildlife – Humboldt State University

Undergraduate Courses

Principles of Wildlife Management  
Techniques of Wildlife Management  
Ecology and Management of Upland Habitats  
Ecology and Management of Upland Populations  
Case Studies in Wildlife Management  
Wildlife Ecology and Management for Nonmajors  
Seminar in Wildlife

Graduate Course

Seminar in Wildlife

1988 – 1989 Department of Biology – Memphis State University

Undergraduate Course

Anatomy and Physiology (Lecturer, faculty and lab coordinator)

1983 – 1987 Department of Biology – Memphis State University

Undergraduate Courses

Freshman Biology Lab (Instructional Assistant)  
Anatomy and Physiology Lab (Instructional Assistant)  
Mammalogy Lab (Instructional Assistant)

1981 – 1983 Department of Biological Sciences – Eastern New Mexico University



Undergraduate Courses

Freshman Biology Lab for Majors (Instructional Assistant)  
Freshman Biology Lab for Nonmajors (Instructional Assistant)  
Animal Physiology Lab (Instructional Assistant)

1980 – 1981 Department of Mathematics – Eastern New Mexico University  
Undergraduate Course  
Introductory Statistics Lab (Instructional Assistant)

**GRADUATE THESES/DISSERTATIONS**

**Graduate Students Supervised Texas State University**

DISSERTATION

- Haverland, Amanda A. Summer 2019. Determining the status and distribution of the eastern black rail (*Laterallus jamaicensis*) in coastal Texas. Texas State University.
- Wolcott, Daniel, M. Spring 2015. Biological and environmental influences on developmental variation of ungulates in variable environments. Texas State University. (EMPLOYMENT: Assistant Professor, University of Central Missouri)
- Duarte, Adam. Spring 2015. Population dynamics and habitat conservation for the golden-cheeked warbler (*Setophaga chrysoparia*). Texas State University. (EMPLOYMENT: Post-Doctoral Research Scholar, Oregon State University)
- Luna, Ryan, S. Spring 2013. Body size, rumen-reticulum functions and dietary nutrition of white-tailed deer. Texas State University. (EMPLOYMENT: Kelly R. Thompson Professor in Quail Research, and Associate Professor, Chair Department of Natural Resources, Sul Ross University)

M.S.

- Espinoza, Zaavian, S. 2020. Drivers of a temporal change in the adult sex ratio of a population of Roosevelt elk (*Cervus elaphus roosevelti*).
- Williamson, Lee, H. 2020. Food supply early in the plant growing season: influences from elk abundance and precipitation.
- Koetke, Lisa J. 2019. Elk population dynamics when carrying capacities vary across and within herds.
- Spilinek, Sterling G. 2019. Rumen-reticulum organ mass and rumen mucosa surface area of white-tailed deer (*Odocoileus virginianus*) consuming two diets.
- McGuire, A. S. 2018. Roosevelt elk response to a newly available foraging patch.
- Tolliver, J. D. M. 2107. Eastern black rail (*Laterallus jamaicensis jamaicensis*) occupancy and abundance estimate along the Texas coast with implications for survey protocols.
- Peterson, Leah M. 2016. Social factors during foraging bouts influence sexual segregation in Roosevelt elk.
- Kolbe, Nicholas R. 2016. Density-dependent not –independent factors influence Roosevelt elk recruitment in the Bald Hills of Redwood National Park.
- Bhaskar, Gayatri. 2015. Rumen-reticulum and liver mass relationships in white-tailed deer (*Odocoileus virginianus*) differ between females and males.
- Aiken, Meredith, R. E. 2014. Variation in rumen-reticulum fill in white-tailed deer (*Odocoileus virginianus*).
- Starns, Heath, D. Spring 2014. Influence of a population irruption by Roosevelt elk on

a vegetation index.

- Parra, Claire, A. Fall 2012. Body weight and age influences on liver weight in white-tailed deer (*Odocoileus virginianus*): implications for reproductive effort.
- Warren, Christopher C. Fall 2011. Singing behavior leads to detection bias in a territorial songbird.
- Duarte, Adam. Spring 2011. Dynamics of rumen-reticulum capacity and fill in white-tailed deer (*Odocoileus virginianus*).
- Jonker, Amber L. Fall 2010. Modeling the relationship between estimates of local occupancy and local abundance in avian species.
- Hunt, Jason W. Summer 2010. Estimating occupancy and abundance of golden-cheeked warblers (*Dendroica chrysoparia*) in central Texas.
- Street, Garrett M. Spring 2010. Forage abundance as the impetus for large ruminant aggregation: a modeling approach.
- Faas, Clinton J. Summer 2008. Habitat interference by exotic axis deer (*Axis axis*) on native white-tailed deer (*Odocoileus virginianus*) in Texas.
- Robinson, Sarah E. Summer 2008. Forage selection and grouping patterns of male and female scimitar-horned oryx (*Oryx dammah*) on Mason Mountain Wildlife Area, Mason, Texas.
- Myrick, Katherine. (Co-chair Jeff Hatfield). Spring 2008. Plant species and vertebrate species richness in National Parks in the Eastern United States.
- Watson, Cynthia, A. (Co-chair Paula Williamson). Summer 2006. Estimating detection probabilities of Golden-cheeked Warblers.
- Richardson, Katherine. Summer 2006. Sexual segregation in urban white-tailed deer: social incompatibility or predation risk?
- Ramzinski, Dawn. Spring 2006. Scaling relationship between body weight and gut capacity in Axis deer (*Cervus axis*).
- Francis, Deena R. Spring 2005. Influence of opening weekend and weather on white-tailed deer harvests at Milan Army Ammunition Plant, Tennessee.
- Longoria, Meredith P. Fall 2004. Using motion-triggered cameras to estimate habitat use by Collared Peccaries.

**Graduate Students Supervised Humboldt State University:**

Terwillinger, Robert, B. (Co-chair Dr. David Kitchen). Spring 2002. Resource selection and presence of Roosevelt elk sign: use versus size of meadows. M.Sc. Thesis.

**Graduate Student Accomplishments:**

2021

- Elizabeth Kurpiers, Thesis Research Fellowship, Graduate College, Texas State University (\$1,450)
- Elizabeth Kurpiers. Lamar & Marilyn Johanson Graduate Endowment in Biology (\$2,500)
- Elizabeth Kurpiers. W.E. (Henry) Norris, Jr. Endowed Scholarship (\$600)
- Elizabeth Kurpiers. Science & Engineering Graduate College Scholarship (\$1000)

2020

- Willis Sontheimer. Houston Safari Club Scholarship (\$6,000)

- Willis Sontheimer, Graduate College Scholarship, Texas State University (\$3,000)  
2019
- Z. Sebastian Espinoza, Thesis Research Fellowship, Graduate College, Texas State University (\$2,000)
- Lee H. Williamson, Thesis Research Fellowship, Graduate College, Texas State University (\$2,000)
- Lisa J. Koetke, Outstanding Instructional Assistant, Department of Biology, Texas State University  
2018
- Sterling Spilinek, Houston Safari Club Scholarship, (\$6,000)
- Lisa J. Koetke, Graduate College Research Scholarship, Texas State University (\$2,000)
- Lisa J. Koetke, John P. Eben and Dorothy Eben Elledge Endowed Scholarship, Texas State University (\$1,000)
- Lisa J. Koetke, Howard D. Schulze Biology Scholarship, Texas State University (\$500)
- Lisa J. Koetke, W. E. (Henry) Norris, Jr. Endowed Scholarship, Texas State University (\$750)
- Lisa J. Koetke, Graduate College Scholarship, Texas State University (\$2,000)  
2017
- Lisa J. Koetke, Celebrity Classic Scholarship, Texas State University (\$6,000)
- Lisa J. Koetke, Graduate College Scholarship, Texas State University (\$2,000)
- Lisa J. Koetke, Texas Parks and Wildlife Foundation Conservation Scholarship (\$2,000)
- James M. Tolliver, Outstanding Graduate Student Poster, Texas Chapter, The Wildlife Society  
2016
- William Wunderlich, Houston Safari Club Scholarship (\$6,000)
- Nick Kolbe, Science and Engineering Scholarship, Texas State University (\$2,000)  
2015
- Adam Duarte, The Graduate College's Outstanding Dissertation Award in the Life Sciences (Unanimous selection), Texas State University (\$1,000)
- Nick Kolbe, Celebrity Classic Scholarship, Graduate College, Texas State University (\$2250)
- Nick Kolbe, Deer Breeders Corporation Scholarship (\$6,000)
- Nick Kolbe, Texas Deer Association Scholarship (\$3,700)
- Nick Kolbe, Texas Parks and Wildlife Foundation Scholarship (\$4,500)
- Daniel Wolcott, Outstanding Instructional Assistant, Department of Biology, Texas State University
- Adam Duarte, Cottam Award (Outstanding Graduate Student Presentation). Texas Chapter The Wildlife Society (\$500)
- Nick Kolbe, Dan Boone Graduate Scholarship, Texas Chapter The Wildlife Society (\$500).
- Nick Kolbe, Houston Safari Club Scholarship (\$5,000).
- Daniel Wolcott, Houston Safari Club Scholarship (\$5,000)

- Daniel Wolcott, Ebege/Elledge Scholarship, Dept. Biology, Texas State Univ. (\$2,300).
  - Adam Duarte, Graduate College Scholarship, Texas State Univ. (\$2,500)
- 2014
- Nick Kolbe, Deer Breeders Corporation Scholarship (\$6,000)
  - Nick Kolbe, Texas Deer Association Scholarship (\$3,700)
  - Nick Kolbe, Texas Parks and Wildlife Foundation Scholarship (\$4,500)
- 
- Heath Starns, Graduate College Research Grant, Texas State Univ. (\$2,000), 2014.
  - Daniel Wolcott, Houston Safari Club Scholarship (\$5,000), 2014.
  - Daniel Wolcott, Doctoral Research Stipend, Texas State University (\$5,000), 2014.
  - Adam Duarte, Doctoral Research Stipend, Texas State University (\$5,000), 2014.
- 2013
- Ryan Luna, Dan Boone Graduate Scholarship, Texas Chapter The Wildlife Society (\$500)
- 2011
- Adam Duarte, Houston Safari Club Scholarship (\$3,500)
- 2010
- Adam Duarte, Houston Safari Club Scholarship (\$3,500)
  - Ryan Luna, Houston Safari Club Scholarship (\$3,500)
  - Ryan Luna, travel grant by American Society of Mammalogy (\$200)
  - Ryan Luna, Harvey – Luna Scholarship (\$7,000)
  - Adam Duarte, travel grant by American Society of Mammalogy (\$200)
- 2009
- Ryan Luna, Houston Safari Club Scholarship (\$3,500)
  - Ryan Luna, Harvey – Luna Scholarship (\$7,000)
- 2007
- Clinton Faas, Houston Safari Club Scholarships (\$3,000)
  - Sarah Stephenson, Houston Safari Club scholarship (\$1,500)
- 2006
- Clinton Faas, Houston Safari Club Scholarships (\$3,000)
  - Kaci Myrick, Durrenburger Scholarship for Women in Science (\$1,000)
- 2005
- Dawn Ramzinski, Houston Safari Club Scholarships (\$3,000)
  - Meredith Longoria, College of Science Scholarship (\$1,500)
- 2004
- Dawn Ramzinski, Houston Safari Club Scholarships (\$3,000)
  - Meredith Longoria, College of Science Scholarship (\$1,500)

**Graduate student committees Texas State University:**

*Dissertation*

- Rylander, Rebekah J. 2021. All in the family: the effects of urbanization and weather variability on the behavior, sociality, and population dynamics of a kin-structured passerine, the black-crested titmouse (*Paeolophus atricristatus*).
- McCormack, Meaghan A. 2021. Utilizing multidisciplinary methods to understand

trace element accumulation in northern Gulf of Mexico Odontocetes.

- MacLaren, Andrew L. 2019. Re-evaluating the reproductive ecology of the endangered Houston toad (*Bufo* [=*Anaxyrus*] *houstonensis*) using automated audio monitoring techniques.
- Jones, Melissa. 2015. Efficacy and efficiency of head-starting and captive propagation of an endangered amphibian: implications for continued population and habitat management following catastrophic wildlife.
- Mali, Ivana. 2014. Freshwater turtles as a renewable resource: using the red-eared slider (*Trachemys scripta elegans*) as a model species.
- Oxley, Forence, M. 2013. Invasive potential of the aquatic macrophyte *Cryptocoryne beckettii*.
- Sha, Qiong. 2012. Distribution, diversity and fate of salmonellae in natural biofilms.
- McCracken, S. F. 2012. Environmental quality effects and the ecological context of a rainforest canopy bromeliad fauna.
- Williams, Casey S. 2010. Life history characteristics of three obligate riverine species and drift patterns of lower Brazos River fishes.
- Jackson, Jacob, T. 2010. Demography and population structure of a Rio Grande endemic emydid, the Big Bend slider.
- Mazir, Babur. 2009. Saprophytic growth and *Frankia* diversity in soil.
- Small, Michael F. 2007. Flow alteration of the lower Rio Grande and white-winged dove range expansion and monitoring techniques.

#### Thesis

- Johns, Nicholas E. 2021. Does urbanization facilitate the establishment of introduced monk parakeet (*Myiopsitta monachus*) populations?
- Renner, Joshua, D. 2020. Evaluating structure class and construction effects on wildlife use of road underpasses.
- Matthews, Anna, M. 2018. Modeling detection and density using distance sampling for three priority grassland bird species in Texas – northern bobwhite (*Colinus virginianus*), eastern meadowlark (*Sturnella magna*), and painted bunting (*Passerina ciris*).
- Durham, Sarah. 2018. Population viability of reddish egrets (*Egretta rufescens*) in Texas: a systems dynamics approach to conservation and management of North America's rarest heron.
- AuBuchon, Kendall, J. 2016. Analysis of kill site parameters to better understand hunting behaviors of mountain lion (*Puma concolor*).
- Loney, Lauren, A. 2016. Potential role of stygobitic species in nutrient dynamic of the Edwards Aquifer, central Texas.
- Trimble, Nathan, L. 2016. The ecology of colonial nesting green herons (*Butorides virescens*) in Texas.
- Hargrave, Amanda. 2015. Determining the seasonal diets of sable antelope (*Hippotragus niger*) at Mason Mountain Wildlife Management Area.
- MacLaren, Andrew, R. 2015. Automated detection of rare and endangered Anurans using robust and reliable detection software.
- Reich, H. J., IV. 2015. Rio Grande beaver (*Castor canadensis mexicanus*) survey in Big Bend National Park.

- Harrod, S. 2014. The effects of landscape characteristics on nesting ecology.
- Craig, C. A. 2014. Relationship between base flow magnitude and spring fish communities.
- Haverland, M. B. 2014. Examining the effects of urbanization on occurrence of mammal species in natural areas of the eastern Edwards Plateau.
- Vaughn, C. R. 2014. Validating environmental flow recommendations: drifting coarse particulate matter, macroinvertebrates, and larval fishes.
- Ruppel, D. S. 2014. Current velocity and flow mediated diets of larval fishes.
- Munters, A. E. 2014. Nest site selection and sex identification of American Oystercatchers (*Haematopus palliatus*) on the upper Texas coast.
- Uthappuru, S. K. 2013. Effects of competition and forest type on size and abundance of an arboreal snail along an elevational gradient.
- Cummings, K. E. R. 2013. Assessing the imprint of geography, host species, land cover, and space on the local abundance of a generalist nest parasite, the Brown-headed Cowbird.
- Henson, J. D. 2012. A comparative analysis of plant species distribution and growth response to edaphic features between the San Saba River and a tributary.
- Flores, J. C. 2012. Thermal aspects of nesting ecology of the Texas River Cooter (*Pseudemys texana*) and Red-eared Slider (*Trachemys scripta elegans*) at Spring Lake, Hays County, Texas.
- Curtis, Stephen G. 2012. Effects of declining hydrograph on instream habitats and fish communities in a semi-arid karstic stream. M.Sc. Thesis.
- Weaver, Sara P. 2012. Overwintering Brazilian free-tailed bats (*Tadarida brasiliensis*) in central Texas: baseline population estimates and microclimate habitat analysis. M.Sc. Thesis.
- Ruiz, Kenneth A. 2012. Nesting niche partitioning by mourning and white-winged doves with observations of other sympatric Columbids. M.Sc. Thesis.
- Morgan, Stephanie. 2012. Bat species and habitat use in the Trans-Pecos of Texas. M.Sc. Thesis.
- Pina, Vanessa. 2012. Changes in habitat with subsequent changes in diet of the Texas River Cooter in Spring Lake, Texas, USA. M.Sc. Thesis.
- Heaton, Meredith R. 2011. Eastern Pipistrelle (*Perimyotis subflavus*) internal temperature differences and sex ratio in Gorman cave hibernaculum. M.Sc. Thesis.
- Duran, Melissa A. 2010. Mix it up: Program evaluation of teacher professional development correlated space science and geology and mathematics. M.Sc. Thesis.
- Mali, Ivana. 2010. Reproductive patterns of Texas River Cooter (*Pseudemys texana*) and red-eared slider (*Trachemys scripta elegans*) at Spring Lake, Hays County, Texas. M.Sc. Thesis.
- Simpler, William S. 2010. Spatial connectivity among black-capped vireo populations. M.Sc. Thesis
- Dammeyer, Nathan T. 2010. Movement patterns of *Etheostoma fonticola* in a headwater stream. M.Sc. Thesis.
- Kollaus, Kristy. 2009. Fish assemblage structure and habitat associations in a Texas spring-fed river. M.Sc. Thesis.
- Birnbaum, Sandra J. 2009. Habitat characterization and pilot reintroduction of star

- cactus (*Astrophytum asterias*). M.Sc. Thesis.
- Hood, Glen. 2009. The causes and consequences of a shift in oviposition timing of a host-specific gall forming wasp. M.Sc. Thesis.
  - McDermid, K. M. 2009. Food habits of the Common Musk Turtle (*Sternotherus odoratus*) in Lentic and Lotic habitats. M.Sc. Thesis.
  - Holderby, Zachary. 2008. Differences in reproductive ecology and behavior between polymorphic Reddish Egrets (*Egretta rufescens*) in the Upper Laguna Madre. M.Sc. Thesis.
  - Gloyna, Lisa A. 2008. Evaluation of teacher professional development mix it up: *correlated science & math* instructional model. M.Sc. Thesis.
  - Gonzales, T.K. 2008. Conservation genetics of Comal Springs riffle beetle (*Heterelmis comalensis*) populations in central Texas. M.Sc. Thesis.
  - Heard, Tom C. 2008. Spatial and temporal patterns in a Chihuahuan desert fish assemblage. M.Sc. Thesis.
  - Bean, M. G. 2008. Occurrence and impact of the Asian fish tapeworm *Bothriocephalus acheilognathi* in the Rio Grande (Rio Bravo Del Norte). M.Sc. Thesis.
  - Korn, J. M. 2008. Evaluating avian communities of the Blanco River Valley using occupancy modeling and landowner conducted surveys. M.Sc. Thesis.
  - Jones, R. L. 2008. Ecological dynamics of native bottomland pecan communities in the Edwards Plateau of Texas. M.Sc. Thesis.
  - Barlow, R. E. 2008. Food habits of hunter collected northern bobwhite quail (*Colinus virginianus*) at the Chaparral Wildlife Management Area in south Texas. M.Sc. Thesis.
  - Romaine-Houston, Dawn. 2008. Foraging behavior of the black-capped vireo in Texas. M.Sc. Thesis.
  - Polak, Bobby. 2008. Influence of human recreational activities and vegetative characteristics on waterbird abundance. M.Sc. Thesis.
  - Malone, Dawnelle. 2007. Baseline studies of invasive African buffelgrass (*Cenchrus ciliaris*) in Big Bend National Park, Texas. M.Sc. Thesis.
  - Cooksey, Mathew L. 2007. Assessment of infrared-triggered camera surveys for estimating white-tailed deer populations in central Texas. M.Sc. Thesis.
  - Gonzalez, Rosie. 2007. Male mate choice in relation to female size in *Poecilia latipinna*. M.Sc. Thesis.
  - Grobe, Katherine M. 2007. Nest site selection by western Kingbirds (*Tyrannus verticalis*) in an urban environment. M.Sc. Thesis.
  - Johnson, Adam J. 2007. Calcium requirements and beyond: signal transduction in pigment granule motility of retinal pigment epithelium. M.Sc. Thesis.
  - Sperry, Cynthia. 2007. Influences of borders on golden-cheeked warbler habitat in the Balcones Canyonlands Preserve, Travis County, Texas. M.Sc. Thesis.
  - Kalmbach, A. 2006. Effects of exotic plant species in central Texas urban habitats on Neotropical migrant bird species composition, relative abundance, and distribution. M.Sc. Thesis.
  - Osbourne, Linda. 2006. Habitat use of River cooters, (*Pseudomys scripta*) in Spring Lake. M.Sc. Thesis.

- Smith, Daniel A. 2006. Assessment of student scientific attitudes after teacher participation in authentic scientific research. M.Sc. Thesis.
- Zickler, W. 2006. Impact of invasive plants on bird density in central Texas urban habitats. M.Sc. Thesis.
- Copland, Chad M. 2005. Using pharmacological agents to elucidate the muscarinic receptor subtype involved in pigment granule dispersion. M.Sc. Thesis.
- Ferguson, Adam W. 2005. Vertebrate predation on drift fence associated pitfall traps during a study of the endangered Houston Toad (*Bufo houstonensis*) in Bastrop County, Texas. M.Sc. Thesis.
- Milholland, Matt. 2005. Nutria in a desert environment. M.Sc. Thesis
- Troy, Jeffrey. 2005. Habitat use of eastern Phobie. M.Sc. Thesis.
- Burpo, Nicole. 2004. Consequences of variation in dietary protein on captive-raised black knob map turtles (*Graptemys nigrinoda*, Emydidae). M.Sc. Thesis.
- Cryer, Gregory. 2004. Temporal and spatial patterns of parasitoid attack on a root-galling Cynipid. M.Sc. Thesis.
- Dufault, Deirdra. 2004. Habitat occupancy by the Black-capped Vireo (*Vireo atricapillus*) following prescribed burns at Kerr Wildlife Management Area. M.Sc. Thesis.
- Gumm, Jennifer. 2004. Species and mate quality recognition in *Poecillia laticipinna*. M.Sc. Thesis.
- Keifer, S. J. 2004. Habitat affinities for white-tailed deer and Rio Grande turkey at the Griffith League Ranch, Bastrop County, Texas. M.Sc. Thesis.
- Schafer, Cynthia, L. 2004. Whitewing distribution, movements and reproduction in a recently colonized urban environment. M.Sc. Thesis.
- Shelton, Stephanie. L. 2004. Annual and temporal population characteristics of *Tadarida brasiliensis* and *Myotis velifer* at the Old Tunnel Wildlife Management Area, Kendall County, Texas. M.Sc. Thesis.
- Thaker, Maria. 2004. Sensory cues, association preferences, and social interactions in the San Marcos salamander. M.Sc. Thesis.
- Egan, Scott. 2003. Abundance and distribution of a gall-forming herbivore: variation in host plant quality or deme formation? M.Sc. Thesis.
- Morris, Susannah R. 2003. Systematics of locally endemic short-tailed shrews, *Blarina* (Insectivora: Soricidae), in Bastrop and Aransas Counties, Texas. M.Sc. Thesis.
- Mostyn, Christopher. 2003. Overabundant white-tailed deer and Golden-cheeked Warbler habitat. M.Sc. Thesis.
- White, Clay J. 2003. Avian habitat affinity in the Lost Pines region of Bastrop County, Texas. M.Sc. Thesis.

**Graduate Student Committees Non-Thesis:**

- Hunt, Ykevaa. 2018.
- Rogers, James. 2013.
- Rodriquez, Iliana. 2011.
- Zafink, Holly. 2011.
- Adhikari, Arjun. 2009.

**Graduate Student Committees Humboldt State University:**



- Fallon-McKnight, Maura. 2009. Diet of exotic fallow deer and a restored herd of tule elk at Point Reyes National Seashore, California.
- Hutchins, Nicole R. 2006. Diet, nutrition, and reproductive success of Roosevelt elk in managed forests of the Olympic Peninsula, Washington. M.Sc. Thesis.
- Storlie, Jason T. 2006. Movements and habitat use of female Roosevelt elk in relation to human disturbance on the Hoko and Dickey game management units, Washington. M.Sc. Thesis.
- Savage, Anya. 2001. Behavioral model of Roosevelt elk. M.Sc. Thesis.
- Popham, Gail, P. 2000. Sage grouse nesting habitat in NE California. M.Sc. Thesis.
- Lanning, Chris. 1998. Modeling sign-station data and pellet-group count data using the negative binomial distribution: bias and efficiency. M.Sc. Thesis.

**Courses prepared:**

2003 – 2004 Natural History & Conservation of Large Mammals (BIO 7324)

2002 – 2003 Statistics and Experimental Design I (BIO 7505) and II (BIO 7506)

**Funded internal teaching grants:**

2005 Huffman, D. G., and F. W. Weckerly. Replacement of obsolete computing equipment in the Freeman Aquatic Biology Teaching Lab. Student Computing Resources Grant. (\$27,927)

**SERVICE**

**Committees:**

University:

- Outstanding Graduate Mentor, Graduate College, 2020
- Outstanding Graduate Mentor, Graduate College, 2016
- Research Enhancement Program, Biology Representative, 2013
- Steering Committee – Research Design and Analysis Working Group (2010 – 2013)
- Academic Computing Resources Committee (2005-2007)
- Undergraduate Scholarships review panel (2004)

College:

- College of Science, Graduate student scholarship selection committee (2004 – 2006)

Departmental:

*Chair*

- Wildlife Management Faculty Search 2016
- M.S. Wildlife Ecology Program, 2013 – present
- Lecturer Evaluation Committee, 2009 – present
- Faculty Mentor – Joe Veech, 2011 – 2013
- Wildlife Management & Conservation Faculty Search 2010 – 2011
- Ad Hoc Committee evaluating Performance and Merit, 2008
- Co-Chair, Assessment and Implementation committee, 2007 – 2010

*Member*

- Tracking committee Dr. Chris Serenari
- Graduate committee (2013 – Present)
- Budget committee (2010 – 2012)

- Statistical Consultant – Graduate students and Faculty (2002 – present)
- Research Enhancement Program, Biology representative 2013
- Outstanding Achievement in Wildlife Management (2009)
- Curriculum Committee (2008 – 2011)
- Ph.D. Proposal – Conservation and Integrative Biology (2007)
- Russell and Ruth Strandmann Field Biology Award, (2003, 2005, 2007)
- Computing and networks committee (2005 – 2011)
- Statistical Design Committee (2002 – 2004)
- Planning committee (2003)
- Student Computer Rooms (2003)
- Faculty evaluator, 8th annual Biology Student Colloquium (2003)

Departmental job search Committees:

- Wildlife Ecology and Conservation search committee (2007)
- Department chair search committee (2006)
- Wildlife Ecologist search committee (2005)
- Quantitative Ecologist search committee (2004)

**Profession service:**

External Reviewer, Academic Promotion

- Application for Promotion to Professor, Haub School of Environment and Natural Resources, University of Wyoming, (2021)
- Application for Tenure and Promotion, Haub School of Environment and Natural Resources, University of Wyoming, (2018)
- Application to Professor, Dept. Natural Resources Manage, Texas Tech Univ. (2017)
- 

Grant Proposal Reviews

- Israel Science Foundation (1999)
- National Science Foundation (2000)
- Ecological Research Center, Department of Biology, University of Memphis (2010)

Committees

- Local committee, Southwestern Association of Naturalists, Annual Conference, Texas State University (2017)
- Vice Chair, Edwards Aquifer, Habitat Conservation Plan, Science Committee, Edwards Aquifer Authority (2017)
- Member, Edwards Aquifer, Habitat Conservation Plan, Science Committee, Edwards Aquifer Authority (2012 – 2016)
- Vice-chair, Edwards Aquifer, Habitat Conservation Plan, Science Committee, Edwards Aquifer Authority (2017)
- Chair, Honorary Life Membership, Texas Chapter, The Wildlife Society (2015)
- Golden-Cheeked Warbler Recovery Team, U.S. Fish & Wildlife Service (2009 – 2014)
- Publications Award Committee, Texas Chapter, The Wildlife Society 2011
- Wildlife Diversity Advisory Committee, Texas Parks and Wildlife Department (2006 – 2009)

- Resolution Committee, American Society of Mammalogy (2006 – 2007)
- Publications Award Committee, Texas Chapter, The Wildlife Society, (2006)
- Publications Committee, American Society of Mammalogy (2003 – 2006)
- Grants-in-aid committee, The American Society of Mammalogy (2002 – 2003)
- Chair, Student Travel Grant Committee. Western Section, The Wildlife Society (July 1996)

**Community service:**

- Spoke with Gifted & Talented 5<sup>th</sup> grade class, De Zavala Elementary School, San Marcos, Texas, April 2010.

**Editorship**

- Academic Editor, *PLOS ONE* (2018 – Present)
- Associate Editor, *Southwestern Naturalist* (2010 – 2012)
- Associate Editor, *Journal of Mammalogy* (2003 – 2006)

Reviewed for: *Acta Ethologica, Acta Zoologica Sinica, Alces, American Midland Naturalist, American Naturalist, Animal Behaviour, Animal Biodiversity and Conservation, Behavioral Ecology, Behavioral Ecology and Sociobiology, Behaviour, Biology Letters, Biological Conservation, California Fish and Game Journal, Canadian Journal of Zoology, Comparative Biochemistry and Physiology, Current Microbiology, Ecology, Ecological Applications, Environmental Management, Ethology, European Journal of Wildlife Research, Folia Zoologica, Functional Ecology, Herpetologica, Journal of Animal Ecology, Journal of Biogeography, Journal of Comparative Physiology, Journal of Mammalogy, Journal of Wildlife Management, Journal of Zoology, Landscape and Urban Planning, Marine Mammal Science, Northeastern Naturalist, Oikos, PLOS One, Rangeland Ecology and Management, Restoration Ecology, Scientific Reports, Southwestern Naturalist, Studies in Neotropical Fauna & Flora, Texas Journal of Science, Urban Ecosystems, Western North American Naturalist, Wildlife Biology, Wildlife Research, Zoo Biology*

**Professional Affiliations**

- American Society of Mammalogy
- The Wildlife Society
- Ecological Society of America
- Society for Northwestern Vertebrate Biology
- American Association for the Advancement of Science

**AWARDS**

- 2019 Alpha Chi Favorite Professors, National College Honors Society, Texas State University
- 2017 Alpha Chi Favorite Professors, National College Honors Society, Texas State University
- 2016 Alpha Chi Favorite Professors, National College Honors Society, Texas State University

- University
- 2015 Outstanding Graduate Student Mentor Award, The Graduate College, Texas State University
- 1988 Outstanding Graduate Student Presentation, Tennessee Chapter, The Wildlife Society.
- 1984 Outstanding Graduate Student Presentation, Tennessee Chapter, The Wildlife Society.