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Fisheries and Wildlife Sciences Program
Department of Forestry and Environmental Resources
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Present Rank: Assistant Professor
Appointment: 75% Teaching/25% Extension
Specialization: Population ecology and management of big game species and predators, habitat use and selection of big game species and predators, interactions of predators and prey, and sexual segregation and resource partitioning in ungulates, animal damage, reptile and amphibian surveys, reptile and amphibian habitat requirements, and wildlife education.

Education:

Troy Athens High School, Troy Michigan 48083; June 1986.
Central Michigan University, Mount Pleasant, Michigan 48859; **Bachelor of Science**, December 1990.
Purdue University, West Lafayette, Indiana 47907; **Master of Science Biology**, May 1994.
Thesis: *Poststrike Elevation in Tongue-Flicking Rate and Strike-Induced Chemosensory Searching in Several Families of Lizards.*
South Dakota State University, Brookings, South Dakota 57007; **Ph.D. Biological Sciences**, July 1998.
Dissertation: *Habitat Selection of a Declining White-Tailed Deer Herd in the Central Black Hills of South Dakota and Wyoming.*

Employment History:

1991 - 1994 Masters Candidate, Research, and Teaching Assistant, Department of Biology, Indiana University-Purdue University, Fort Wayne, Indiana.
July 1994 - July 1998 Doctoral Candidate and Research Assistant, Department of Wildlife and Fisheries Sciences, South Dakota State University, Brookings, South Dakota.
August 1998 - April 1999 Post-Doctoral Research Assistant, Department of Wildlife and Fisheries Sciences, South Dakota State University, Brookings, South Dakota.

- April 1999 - Farmland Deer Project Leader/Research Scientist 2, Minnesota Department
 May 2004 of Natural Resources, Division of Fish and Wildlife, Farmland Wildlife
 Populations and Research, Madelia, Minnesota.
- August 2000 - Adjunct Assistant Professor of Wildlife and Fisheries Sciences, South
 Present Dakota State University, Brookings, South Dakota.
- April 2004 - Assistant Professor, North Carolina State University, College of Natural
 Present Resources, Department of Forestry and Environmental Resources, Fisheries
 and Wildlife Sciences Program.

Professional Affiliations Past and Present:

- American Society of Mammalogists (1995 - present).
 The Great Plains Natural Science Society (1997 - present).
 President-Elect (2003 – 2004).
 President (2004 – 2006).
 Past-President (2007– 2008).
 Chairperson, Audit Committee (2003 – 2004).
 Chairperson, Arrangements Committee (2003 – 2005).
 Chairperson, Program Committee (2003 – 2005)
- The Wildlife Society (1994 - present).
 Member, Honorary Membership and Special Recognition Committee (2004-present).
 Public Conservation Education and Extension Working Group (2005 - present).
 Wildlife Damage Management Working Group (2004 – present).
- Central Mountains and Plains Section of The Wildlife Society (1994 - 2006).
 Member 2003 Annual Meeting Modeling Session Abstract Selection Committee
- Minnesota Chapter of The Wildlife Society (1999 - 2004).
 North Carolina Chapter of The Wildlife Society (2004 – present).
 Member, Program Committee (2006 – present).
 Executive Board At-Large Member (2007 – present).
- North Central Section of The Wildlife Society (2000 - 2004).
 South Dakota Chapter of The Wildlife Society (1994 - 2006).
 Co-Chairperson, Membership Committee (1996 - 1997).
 Chairperson, Membership Committee (1997 - 1998).
 Chairperson, Best Paper Awards Ad-hoc Committee (1997 - 1998).
 South Dakota State University Student Chapter of The Wildlife Society
 (1994 - 1998).
- Southeastern Section of The Wildlife Society (2004 – present).
 Member, Ad-hoc Wildlife Publication Committee (2005 – present).

Graduate Students Supervised Past/Present

- 2000 - 2003 Brinkman, T. J. Mortality of white-tailed deer in southwest Minnesota. Co-advised with Dr. Jonathan A. Jenks, South Dakota State University, Brookings, South Dakota.
- 2000 - Bigalke, B. J. Mortality of white-tailed deer in southeast Minnesota. Co-advised with Dr. Jonathan A. Jenks, South Dakota State University, Brookings, South Dakota.
- 2001– 2004 Gorman, T. A. Home range characteristics, resource selection, and survival of river otters in southeast Minnesota. Co-advised with Dr. John D. Erb and Dr. Brock R. McMillan, Minnesota State University, Mankato, Minnesota.
- 2002 - 2005 Swanson, C. C. Movement and association of white-tailed deer in southwest Minnesota. Co-advised with Dr. Jonathan A. Jenks, South Dakota State University, Brookings, South Dakota.
- 2005 - Hutchens, S. Inventory and assessment of the herpetofauna of Bull Neck Swamp, Washington County, North Carolina. North Carolina State University, Raleigh, North Carolina.
- 2006 Rockhill, A. Home range, movement, and habitat selection of adult bobcats (*Lynx rufus*) in pocosin wetlands of eastern North Carolina. Bull Neck Swamp Management Plan. North Carolina State University, Raleigh, North Carolina.
- 2006 Golden, K. Fee-hunting and wildlife management practices on non-industrial private lands in North Carolina. Co-advised with Dr. Christopher E. Moorman, North Carolina State University, Raleigh, North Carolina.
- 2006 Ayers, C. A Effects of different mowing regimes on the efficacy of Anthraquinone (FlightControl Plus TM) as a Canada Goose repellent. Co-advised with Dr. Christopher E. Moorman, North Carolina State University, Raleigh, North Carolina.
- 2006 Sandfoss, M. Modeling population size and the impacts of harvest for feral hogs and white-tailed deer at Howell Woods. North Carolina State University, Raleigh, North Carolina.
- 2007 Aspinwall, M. E. Local movements of urban Canada geese. Co-advised with Dr. Christopher E. Moorman, North Carolina State University, Raleigh, North Carolina.
- 2007 Karns, G. Movement, activity, and habitat use of adult male white-tailed deer related to hunting pressure and breeding season at Chesapeake Farms, Maryland. . Co-advised with Dr. Richard A. Lancia, North Carolina State University, Raleigh, North Carolina.

- 2007 Folta, J. Habitual and Physiological Effects of Bait on American Black Bears. Co-advised with Dr. Richard A. Lancia., North Carolina State University, and Dr. David Cobb, North Carolina Wildlife Resources Commission. Raleigh, North Carolina.
- 2007 Chitwood, C. Hunter perception and population size of white-tailed deer at Hofmann Forest. Co-advised with Dr. Richard A. Lancia, North Carolina State University, Raleigh, North Carolina.

Selected Reports (from over 70 reports)

- 1995 **DePerno, C. S.**, S. L. Griffin, and J. A. Jenks. Black Hills Whitetails. *South Dakota Conservation Digest* 62(5):18-21.
- 1996 **DePerno, C. S.**, S. L. Griffin, and J. A. Jenks. Whitetails in the central Black Hills -- The importance of horizontal cover to female white-tailed deer in the central Black Hills. *South Dakota Conservation Digest* 63(5):4-6.
- 1997 Griffin, S. L., **C. S. DePerno**, J. A. Jenks, and L. A. Rice. The migration of No. 1193 and her fawn. *South Dakota Conservation Digest* 64(3):22-23.
- 1997 **DePerno, C. S.**, J. A. Jenks, S. L. Griffin, and L. A. Rice. Black Hills Bucks -- Are white-tailed deer numbers decreasing in the central Black Hills? *South Dakota Conservation Digest* 64(5):20-21.
- 1999 **DePerno, C. S.**, S. L. Griffin, J. A. Jenks, and L. A. Rice. How well do white-tailed deer survive in the central Black Hills? *South Dakota Conservation Digest* 66(1):8-12.
- 1999 **DePerno, C. S.**, J. A. Jenks, S. L. Griffin, and L. A. Rice. Macro-habitats selected by white-tailed deer. *South Dakota Conservation Digest* 66(1):11.
- 1999 Griffin, S. L., L. A. Rice, **C. S. DePerno**, and J. A. Jenks. 1999. Seasonal movements and home ranges of white-tailed deer in the central Black Hills, South Dakota and Wyoming, 1993-97. Pittman-Robertson Report W-75-R-34. South Dakota Department of Game, Fish and Parks, Pierre, South Dakota 1-62.
- 2000 **DePerno, C. S.**, J. A. Jenks, S. L. Griffin, and L. A. Rice. Why are Black Hills whitetails declining? *South Dakota Conservation Digest* 67(1):12-15.
- 2000 **DePerno, C. S.**, and J. A. Jenks. Commentary: What's up with Black Hills deer? *Outdoor News* 33(22):2,19.
- 2000 **DePerno, C. S.**, B. S. Haroldson, and J. D. Erb. Whitetail Institute supports Minnesota mortality study. *Whitetail News* 10(4):8.

- 2001 **DePerno, C. S.**, B. S. Haroldson, and J. D. Erb. Landowner Report: Summary of the capture operation and seasonal mortality of white-tailed deer in southeastern Minnesota. *Whitetales* Winter 2001:47.
- 2001 Brinkman, T. J., **C. S. DePerno**, J. A. Jenks, B. S. Haroldson, and J. D. Erb. Landowner Report: Seasonal mortality and movements of white-tailed deer in southwest Minnesota. *Whitetail News* 11(2):46-47.
- 2002 Linke, L. O, **C. S. DePerno**, and J. A. Jenks. An Annotated Bibliography: Published articles about time to death and distance traveled. The Institute of Cetacean Research, Tokyo, Japan. 1-23 pp.
- 2002 Ingebrigtsen, D. K., and **C. S. DePerno**. Bias in age and sex classifications from Minnesota's deer harvest registration. Minnesota Wildlife Report 13. Minnesota Department of Natural Resources, Division of Wildlife, St. Paul, Minnesota 1-14.
- 2002 Bestul, S. (with **C. S. DePerno**). Tracking the migration and mortality of farmland deer. Deer and Deer Hunting Magazine, Special Stump Sitters 25th Anniversary Collector's Edition 34-42.
- 2003 **DePerno, C. S.**, and J. R. Anderson. Documentation of a late born fawn in south central Minnesota. *Whitetales* Summer 2003:54.
- 2003 **DePerno, C. S.**, and J. A. Jenks. Antlered female deer: how and why? *Whitetail Journal*, October 2003:70-74.
- 2004 **DePerno, C. S.**, and J. A. Jenks. Antlered female deer: A scientific perspective. *Whitetales* Winter 2004:38-39.
- 2004 **DePerno, C. S.**, and J. A. Jenks. Antlered does. *Minnesota Conservation Volunteer* May-June 2004:58-60.
- 2004 - **DePerno, C. S.** North Carolina State University, Fisheries and Wildlife Program present News, Volumes 1 - 4, September 1, 2004 – October 1, 2007.
- 2004 Fecske, D. M., J. A. Jenks, F. G. Lindzey, **C. S. DePerno**, and T. L. Serfass. Distribution and abundance of cougars (*Puma concolor*) in the Black Hills of South Dakota and Wyoming. Page 34 in H. J. McGinnis, J. W. Tischendorf, and S. J. Ropski, editors. Proceedings of the Eastern Cougar Conference 2004, Morgantown, West Virginia, USA.
- 2005 Webber, J. M., R. Snow, J. Riddle, and **C. S. DePerno**. Bad rep for coyotes. *Wildlife in North Carolina* 69(12):16-19
- 2006 Moorman, C. E., **C. S. DePerno**, P. D. Doerr, and R. A. Lancia. Turner House informational brochure. North Carolina State University. 1-4.

- 2006 Griffin, S. L., J. A. Jenks, and **C. S. DePerno**. Seasonal movements, home ranges, and survival of white-tailed deer and mule deer in the southern Black Hills, South Dakota and Wyoming, 1998-2003. Pittman-Robertson Report W-75-R-46. South Dakota Department of Game, Fish and Parks, Pierre, South Dakota 1-78.

Peer-Reviewed Articles

- 1993 **DePerno, C. S.**, and W. E. Cooper, Jr. Prey chemical discrimination and strike-induced chemosensory searching in *Liolaemus zapallarensis*. *Chemoecology* 4:86-92.
- 1994 **DePerno, C. S.**, and W. E. Cooper, Jr. Strike-induced chemosensory searching is absent in *Anolis carolinensis*. *Amphibia-Reptilia* 15:83-88.
- 1994 Cooper, W. E., Jr., **C. S. DePerno**, and J. Arnett. Prolonged post-bite elevation in tongue-flicking rate with rapid onset in gila monster *Heloderma suspectum*: Relation to diet and foraging and implications for evolution of chemosensory searching. *Journal of Chemical Ecology* 20:2867-2881.
- 1995 Griffin, S. L., **C. S. DePerno**, J. A. Jenks, L. A. Rice, and D. A. Flory. Capture success of white-tailed deer in the central Black Hills, South Dakota. *Proceedings South Dakota Academy of Science* 74:71-76.
- 1996 Cooper, W. E., Jr., **C. S. DePerno**, and S. F. Fox. Prey chemical discrimination and strike-induced chemosensory searching in lizards: Their absence in a crotaphytid lizard (*Crotaphytus collaris*) and a proposal for research in zoos. *Zoo Biology* 15:239-253.
- 1996 Cooper, W. E., Jr., **C. S. DePerno**, and L. J. Steele. Do lingual behaviors and locomotion by two gekkotan lizards after experimental loss of bitten prey indicate chemosensory search? *Amphibia-Reptilia* 17:217-231.
- 1996 **DePerno, C. S.**, and W. E. Cooper, Jr. Labial-licking for chemical sampling by the leopard gecko (*Eublepharis macularius*). *Journal of Herpetology* 30:540-543.
- 1996 Cooper, W. E., Jr., **C. S. DePerno**, and L. J. Steele. Effects of movement and eating on chemosensory tongue-flicking and on labial-licking in the leopard gecko (*Eublepharis macularius*). *Chemoecology* 7:179-183.
- 1997 **DePerno, C. S.**, S. L. Griffin, J. A. Jenks, and L. A. Rice. An unusual migration by a white-tailed deer fawn. *The Prairie Naturalist* 29:93-97.
- 2000 **DePerno, C. S.**, J. A. Jenks, S. L. Griffin, and L. A. Rice. Female survival rates in a declining white-tailed deer population. *Wildlife Society Bulletin* 28:1030-1037.

- 2000 **DePerno, C. S.**, and J. R. Anderson. Documentation of a late born fawn in south central Minnesota. *The Prairie Naturalist* 32:257-258.
- 2001 **DePerno, C. S.**, J. A. Jenks, S. L. Griffin, and B. W. Klaver. Use of the USDA Forest Service Geographic Information System for determining cover type use by white-tailed deer. *South Dakota Academy of Science* 80:201-211.
- 2002 **DePerno, C. S.**, J. A. Jenks, S. L. Griffin, L. A. Rice, and K. F. Higgins. White-tailed deer habitats in the central Black Hills. *Journal of Range Management* 55:242-252.
- 2002 Brinkman, T. J., **C. S. DePerno**, J. A. Jenks, J. D. Erb, B. S. Haroldson. A vehicle-mounted radiotelemetry antenna system design. *Wildlife Society Bulletin* 30:258-262.
- 2002 Jenks, J. A., W. P. Smith, and **C. S. DePerno**. Maximum sustained yield harvest versus trophy male management: an empirical test of two alternative hypotheses. *The Journal of Wildlife Management* 66:528-535.
- 2003 **DePerno, C. S.**, S. L. Griffin, J. A. Jenks, and L. A. Rice. Multidimensional cover characteristics: Is variation in habitat selection related to white-tailed deer sexual segregation? *Journal of Mammalogy* 84:1316-1329.
- 2003 Bigalke, B. J., J. A. Jenks, and **C. S. DePerno**. An efficient lower jaw removal technique for large mammals. *South Dakota Academy of Science* 82:67-72.
- 2004 Brinkman, T. J., K. L. Monteith, J. A. Jenks, and **C. S. DePerno**. Predicting neonatal age of white-tailed deer in the northern Great Plains. *The Prairie Naturalist* 36:75-81.
- 2004 Gibbs, M. C., J. A. Jenks, **C. S. DePerno**, B. F. Sowell, and K. J. Jenkins. Cervid forage utilization in noncommercially thinned ponderosa pine forests. *Journal of Range Management* 57:435-441.
- 2004 Brinkman, T. J., J. A. Jenks, **C. S. DePerno**, and B. S. Haroldson. Survival of white-tailed deer in an intensively farmed region of Minnesota. *Wildlife Society Bulletin* 32:726-731.
- 2004 Brinkman, T. J., J. A. Jenks, **C. S. DePerno**, and B. S. Haroldson. *Clostridium perfringens* type A in a free-ranging fawn? *The Prairie Naturalist* 36:181-185.
- 2005 **DePerno, C. S.**, B. J. Bigalke, J. A. Jenks, B. S. Haroldson, and R. G. Osborn. 2005. Electrocution of an adult white-tailed deer. *The Prairie Naturalist* 37:47-49.

- 2005 Brinkman, T. J., **C. S. DePerno**, J. A. Jenks, and B. S. Haroldson. Movement of female white-tailed deer: effects of climate and intensive row-crop agriculture. *The Journal of Wildlife Management* 69:1099-1111.
- 2005 Schuler, K. L., J. A. Jenks, **C. S. DePerno**, M. A. Wild, and C. C. Swanson. Tonsillar biopsy test for chronic wasting disease: two sampling approaches in mule deer and white-tailed deer. *Journal of Wildlife Diseases* 41:820-824.
- 2008 Swanson, C. C., J. A. Jenks, **C. S. DePerno**, R. W. Klaver, R. G. Osborn, and J. A. Tardiff. 2007. Does the use of vaginal-implant transmitters impact neonate survival of white-tailed deer? *Wildlife Biology* 13:In Press.
- 2008 Gorman, T. A., B. R. McMillan, J. D. Erb, **C. S. DePerno**, and D. J. Martin. Survival and cause-specific mortality of a protected population of river otter (*Lontra canadensis*) in Minnesota. *American Midland Naturalist* In Press.
- 2005 Klaver, R. W., J. A. Jenks, **C. S. DePerno**, and S. L. Griffin. Associating seasonal range characteristics with survival of white-tailed deer. *Journal of Wildlife Management* 72:In Press.
- 2008 Wolf, K. N., **C. S. DePerno**, J. A. Jenks, M. K. Stoskopf, S. Kennedy-Stoskopf, C. S. Swanson, T. J. Brinkman, R. G. Osborn, and J. A. Tardiff. Serologic survey of selected infectious diseases and selenium status of white-tailed deer (*Odocoileus virginianus*) in southern Minnesota. *Journal of Wildlife Diseases* In Press.

Over 200 research and extension presentations

Grants, Contracts, and Budgets: Thirty-seven grants totaling **\$1,690,453**

Website

- 2007 Rockhill, A., and **DePerno, C. S.** Bull Neck Swamp
(<http://cnr.ncsu.edu/for/dept/bullneck.html>)

Courses Taught:

- FW 221 - Principles Conservation of Natural Resources
 FW 485 - Natural Resource Advocacy
 FW 311 - Wildlife Inventory and Management
 FW 313 - Mountain Wildlife Ecology and Management
 FW 610 – Special Topics Graduate Course