

David Seth Green, Ph.D.

Postdoctoral Scholar, Institute for Natural Resources, Oregon State University
Science and Education Center, 2112 SW 5th Ave, Suite 140, Portland, Oregon, 97201
Email: greendav@oregonstate.edu; Website: davidsethg.com

EDUCATION

- 2015 **Dual Ph.D., Michigan State University**, Zoology and Ecology, Evolutionary Biology, & Behavior, East Lansing, MI, Advisor: Dr. Kay Holekamp. Dissertation: Anthropogenic disturbance, ecological change, and wildlife conservation at the edge of the Mara-Serengeti ecosystem
- 2008 **B.S. magna cum laude, Arizona State University and The Barrett Honors College**, Conservation Biology, Tempe, AZ, Advisor: Dr. Leah Gerber. Thesis: Non-invasive techniques to incorporate behavior into demographic modeling of California sea lions
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PEER-REVIEWED PUBLICATIONS & PREPARED MANUSCRIPTS

- Green, D.S.**, Roloff, G.J. Heath, B.R. & Holekamp, K.E. 2015. Temporal dynamics of the responses by African mammals to prescribed fire. *Journal of Wildlife Management*. **79**: 235-242. DOI: 10.1002/jwmg.827
- Green, D.S.**, Young, J.K., Hernandez-Camacho, C.J, & Gerber, L.R. 2010. Developing a non-invasive indicator of pinniped health: Neonate behavior and growth in California sea lions (*Zalophus californianus*). *Ciencias Marinas*. **36**: 311-321.
- Seidler, R.G., **Green, D.S.**, & Beckmann, J.P. *Under review at the Journal of Applied Ecology*. Highways, crossing structures and risk: behaviours of Greater Yellowstone pronghorn elucidate efficacy of road mitigation.
- Green, D.S.**, Zipkin, E.F., & Holekamp, K.E. *In prep for Biological Conservation*. Long-term ecological changes at the edge of the Mara-Serengeti ecosystem.
- Green, D.S.**, L. Johnson-Ulrich, H.E. Couraud, & Holekamp, K.E. *In prep for Conservation Biology*. The effects of anthropogenic disturbance on long-term trends in lion and spotted hyena demography and behavior in the Maasai Mara National Reserve, Kenya.
- Califf, K.C., **Green, D.S.**, Wagner, A.P., Scribner K.T., Wagner, M.E., & Holekamp, K.E. *In Prep for Journal of Mammalogy*. Genetic relatedness and space-use in two populations of striped hyenas (*Hyaena hyaena*).
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GRANTS, FELLOWSHIPS, & AWARDS

Extramural

- (in prep): NSF DEB Preliminary Proposal: The influences of maternal effects and ecology on the evolution of reproductive diapause in *Mustelidae*

- (under review): NCASI Western Wildlife Program: Investigating the effects of timber management, wildfire, and ecological change on mammal communities in the Klamath-Siskiyou ecoregion of northern California and southern Oregon
- 2010-2013: NSF Graduate Research Fellowship (\$110,000)
- 2013: Digital Globe Foundation Grant for satellite imagery (\$10,000)
- 2012: Kenya Wildlife Trust Conservation Grant (\$20,000)
- 2011: Samuel Miller Award for independent research (\$3,500)

Intramural

- 2015: Dissertation Completion Fellowship, MSU College of Nat. Sciences (\$6000)
- 2014: Dissertation Continuation Fellowship, MSU College of Nat. Sciences (\$6000)
- 2014: Distinguished Student Speaker, MSU EEBB (\$500)
- 2014: Travel Fellowship, MSU EEBB (\$600)
- 2012: Summer Fellowship, MSU EEBB (\$1800)
- 2006-2008: Awarded grants from the ASU School of Life Sciences Undergraduate Research Program to design and complete independent research (\$3,000)

RESEARCH EXPERIENCE

Postdoctoral Scholar, Institute for Natural Resources, Oregon State University, Corvallis, OR;
Advisor: Dr. Sean Matthews; September 2015 to *present*. Involved in a multi-year, multi-agency collaborative study on the management and conservation of carnivore populations in the Klamath-Siskiyou ecoregion of northern California and southern Oregon, and in the southern Cascades and northern Sierra Nevada mountain ranges. Emphases of current research objectives include: 1) understanding the effects of wildfires and timber practices on population dynamics of mesocarnivores, 2) investigating the effects of fisher translocations on source population dynamics, and 3) advising the design and implementation of future monitoring programs of carnivores on industrially managed landscapes.

Graduate Research Assistant, Mara Hyena Project, Michigan State University, East Lansing, MI and Masai Mara, Kenya; Advisor: Dr. Kay Holekamp; April 2009 to September 2015. My dissertation research involved working closely with local, federal, and non-government organizations in Kenya to design, propose, and implement studies investigating the effects of long-term ecological changes on mammalian carnivore and herbivore populations. The main emphases of my research included: 1) determining the effects of a myriad of biotic and abiotic factors in documented herbivore declines, 2) discerning the impacts of human population growth and cattle grazing on large carnivore behavior and population dynamics, and 3) examining how spotted hyenas can serve as an indicator species in sub-Saharan Africa.

Undergraduate Researcher, School of Life Sciences, Arizona State University, Tempe, AZ;
Advisor: Dr. Leah Gerber; August 2004 to May 2008. The main emphasis of my research was to investigate the relationship between behavior and body condition and growth rates of California sea lions.

TEACHING

Adjunct Professor, Investigating Forest Ecosystems (SCI 338), Portland State University, March to June 2016. Developed an upper-division ecology course for 40 students to train them in ecological sampling, statistical analyses, GIS, and the presentation of research.

Lead Instructor, Behavioral Ecology of African Mammals (ZOL 490), Michigan State University, May 2012 and 2014. Led 18 students twice on an intensive 3-week study abroad course in Kenya. Lecture topics included the scientific method, incorporating science into wildlife management, predator-prey interactions, ecology of the Serengeti-Mara ecosystem, behavioral ecology observation techniques, mammalogy, and statistics. The course culminated in mentoring small groups of students on the development, implementation, and presentation of independent research focused on behavioral observation data of wild mammals.

Graduate Teaching Assistant, Ecology Lecture and Lab (ZOL 355, 355L), Michigan State University, August 2014 to May 2015. Assisted students in designing and carrying out independent research projects from their inception to a culmination in an oral and written presentation of results. Taught fundamental ecological concepts and statistical analyses for the biosciences, and reviewed student performance.

Invited Guest Lecturer

- Conservation Behavior (ZOOL 726), University of New Hampshire 2014, 2015
- Ecological Aspects of Animal Behavior (ZOL 415), Michigan State University 2014
- Wildlife in the Modern World (ESRM 150), University of Washington 2013
- Kenya Wildlife Service Training Institute, Naivasha, Kenya 2011, 2013
- Behavioral Ecology of African Mammals (ZOL 490), Michigan State University 2011

Mentoring

NSF International Research Experience for Students, Field Research on African Carnivores. 2010-2014

Graduate Program Assistant: Directed the organization of applicants and selection of participants, developed infrastructure and collaborations in country, and facilitated scientific growth for 4 students each year spending 12 weeks conducting independent research projects in the Masai Mara National Reserve.

Research Supervisor 2010-2015

Mentored undergraduate students in engaging research projects including large carnivore population monitoring in the Masai Mara National Reserve, activity patterns of spotted hyenas in relation to anthropogenic disturbance, and the flexibility of spotted hyena life history traits in changing ecosystems

RESEARCH PRESENTATIONS

Seidler, R.G., **Green, D.S.**, & Beckmann, J.P. 2016. Highways, crossing structures and risk: Efficacy of road mitigation for migrating pronghorn. Scientific Conference on the Greater Yellowstone Ecosystem, Grand Teton National Park, WY.

- Farr, M.T., **Green, D.S.**, Holekamp, K.E., & Zipkin, E.F. 2016. A community distance sampling model for estimating distributions and abundances of carnivores in the Maasai Mara, Kenya. The Ecological Society of America's Annual Meeting, Fort Lauderdale, FL.
- Powell, R.A., Callas, R., Farber, S., Finley, L., **Green, D.S.**, Matthews, S.M., & Swiers, R. 2016. Using non-invasive DNA techniques to document the dynamics of a fisher population in California. Midwest Furbearer Conference, Ely, MN.
- Green, D.S.**, Matthews, S.M., Swiers, R.C., Finley, L.L., Callas, R., Farber, S., & Powell, R. 2016. Investigating the effects of wildfire on fishers and other mesocarnivores in northern California and southern Oregon. Oregon chapter of the Wildlife Society Annual Meeting, Seaside, OR.
- Matthews, S.M., Powell, R.A., Facka, A.N., Engstrom, T., Callas, R., Finley, L.L., **Green, D.S.**, Swiers, R.C., Higley, J.M., Rennie, K.M., Cummins, C.M., & Green, R.E. 2016. Fisher translocation and research in northern California: A foundation for fisher conservation measures in Oregon. Oregon Chapter of the Wildlife Society Annual Meeting, Seaside, OR.
- Ikime, T.M., **Green, D.S.**, & Holekamp, K.E. 2015. Using GIS to understand habitat use patterns by spotted hyenas in the Masai Mara National Reserve, Kenya. African Large Carnivores Researchers' Training Workshop, National Museums of Kenya, Nairobi.
- Green, D.S.**, Dloniak, S.M., Chelysheva, E., & Linden, D.W. 2014. Estimating changes in cheetah density and distribution in the Mara-Serengeti ecosystem with spatial capture-recapture. The Wildlife Society's Annual Conference, Pittsburgh, PA.
- Green, D.S.**, Zipkin, E.F., Boydston, E.E., & Holekamp, K.E. 2014. Long-term ecological changes at the edge of the Mara-Serengeti ecosystem. The Ecological Society of America's Annual Conference, Sacramento, CA.
- Green, D.S.**, Johnson-Ulrich, L., Couraud, H.E., Heath, B.R., & Holekamp, K.E. 2014. Carnivore population dynamics in the Masai Mara National Reserve in relation to anthropogenic disturbance. African large carnivores: Impacts on ecosystems and human interactions conference. National Museums of Kenya, Nairobi.
- Green, D.S.** & Holekamp, K.E. 2012. Using spotted hyenas as an indicator species of ecological and anthropogenic changes in African ecosystems. Kenya Wildlife Service's Annual Carnivore Conference, Nairobi.
- Green, D.S.**, Young, J.K., Hernandez-Camacho, C.J., & Gerber, L.R. 2007. Developing a non-invasive indicator of pinniped health: Neonate behavior and growth in California sea lions (*Zalophus californianus*). American Society of Mammalogists Annual Meeting, Albuquerque, NM.

PROFESSIONAL ACTIVITIES

- IUCN Species Survival Commission Hyena Specialist Group aardwolf assessor (2014-*present*)
- Gave 30+ lectures on conservation biology, carnivore ecology, and ecosystem services to local schools and tourist facilities around the Masai Mara National Reserve (2009-2014)
- Graduate Student Mentor and Judge at the MSU Undergraduate Research and Arts Forum (April 2011, 2015)
- Secretary of the Central Arizona Chapter of the Society for Conservation Biology (2007-2008)
- Society memberships: Society for Conservation Biology, American Society of Mammalogists, Ecological Society of America, The Wildlife Society, *Martes* Working Group, Oregon Forest Carnivores Working Group