

L. SCOTT MILLS

Associate Vice President of Research for Global Change and Sustainability

Professor of Wildlife Biology

University of Montana

Missoula, MT 59812

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EDUCATION:

- July 1993 **Ph.D., Biology**
University of California, Santa Cruz, CA
Advisor: Michael Soulé
(Began at Univ. Michigan 1988-89, moved with advisor to UCSC)
- July 1987 **M.S., Wildlife Ecology**
Utah State University, Logan, UT
Advisor: Fred Knowlton
- May 1983 **B.S., Zoology**
North Carolina State University, Raleigh, NC
(one-year National Student Exchange to Univ. Idaho 1980-81).

PREVIOUS FACULTY POSITIONS:

- July 2013 – Aug. 2016 **Professor and Cluster Coordinator,
Global Environmental Change and Human Well-Being,
Chancellor’s Faculty Excellence Program,
North Carolina State University, Raleigh, NC**
- Jun. 1995 – July 2013 **Professor (2004-2013); Associate Professor (1999 – 2004);
Assistant Professor (1995 – 1999)**
Wildlife Biology Program, College of Forestry and Conservation
The University of Montana, Missoula, MT

OTHER SUBSTANTIAL TEACHING EXPERIENCE:

- Taught “Applied Population Ecology” course to graduate students in the Bren School of the Environment, University of California, Santa Barbara. May 2016
- Taught “Applied Wildlife Population Ecology” course to graduate students at University of Porto, Portugal. May 2015
- Taught “Applied Wildlife Population Ecology” course to graduate students at BOKU University, Vienna, Austria. June 2013
- Sabbatical, Ugyen Wangchuk Institute for Conservation and Environ., Bhutan. Jan. – June 2010
- Field Conservation Biology [1-month; 4 semester credits], Mountain Lake Biological Station, University of Virginia. Summers 2002 *and* 2003.
- Sabbatical, Virginia Tech University, Fisheries and Wildlife Dept., Blacksburg, VA. July 2002 – Aug. 2003.
- Visiting Assistant Professor, University of Idaho, Dept. of Fish and Wildlife Sciences, Moscow, ID. Aug. 1993 – May 1995.

AWARDS/COMMENDATIONS

National/International

- Advisory Board, Bhutan Foundation (Washington, D.C.) (2015 -).
- Editorial Board, Proceedings of the Bhutan Ecological Society (2014 -).
- Expert Panel to evaluate Favorable Conservation Status of Scandinavian Wolves (2015).
- Co-Chair for the Science Committee for the 2014 North American Congress of the Society for Conservation Biology.
- Member of IUCN Lagomorph Specialist Group (2013 - present).
- One of four invited expert peer reviewers of USFWS proposal to delist gray wolves in Wyoming from the US Endangered Species Act (2011).
- John Simon Guggenheim Fellow (2009).
- Scientific Declaration (Invited) to U.S. District Court on genetic issues associated with delisting Northern Rockies gray wolves (2008).
- Member of Western Governor's Association "*Climate Change Working Group*" (2008).
- "Contributor" to North America section, 2007 Intergovernmental Panel on Climate Change Report (IPCC).
- North American Section Board of Governors, Society for Conservation Biology (2002-04).
- Invited Testimony to U.S. Congress (House Committee on Natural Resources) regarding ethics in conservation science (National Lynx Survey). (March 6, 2002).
- NSF Early CAREER Award (1998).

State and University-Level

- Coordinator, Global Environmental Change and Human Well Being Cluster, Chancellor's Faculty Excellence Program, NCSU.
- One of 3 Invited Panel Members for Screening of "Chasing Ice" (sponsored by SE Climate Science Center and University Sustainability Office, NCSU); 10/22/13.
- Elected member, University of Montana Faculty Senate, 2010-2013 term.
- One of 3 Professors Invited to speak in the first Provost's Distinguished Lecturer Series (2009 November). Title of talk: "Wildlife Biology in a Changing World".
- Bob Watts Communication Award from the Montana Chapter of The Wildlife Society for my textbook "Conservation of Wildlife Populations." (Feb. 2009).
- Keynote Speaker for Academic Convocation, University of Montana. (2006 August).
- Keynote speaker for University of Montana Undergraduate Research Conference (2006 April).
- Commencement Speaker, College of Forestry and Conservation (2004 May).
- School of Forestry Montana Druids Faculty Service Award. (Spring 2000).
- Most Inspirational Faculty Award (University of Montana Silent Sentinel student society, accompanied by \$1,000 award from the University). (Spring 1998).

STUDENT ADVISING

UNDERGRADUATE

I have mentored >30 students on Honors or Senior Thesis projects (and >150 undergraduate field and lab assistants). Twelve of these students received University or external research awards exceeding \$30,000, several with publications. My "REAP" program (developed in my NSF CAREER Grant) has continued to serve as a framework for mentoring these students.

GRADUATE STUDENT ADVISING

Students Completing Ph.D. Degrees to Date

Tshering Tempa, PhD. "The ecology of montane Bengal tigers (*Panthera tigris tigris*) in the Himalayan Kingdom of Bhutan". (2017)

Tammy Mildenstein: "Conservation of endangered flying foxes I the Philippines: effects of anthropogenic disturbance and methods for monitoring" (2012).

Ellen Cheng: "Climate Change, gene flow, and the legendary synchrony of snowshoe hares" (2010).

Heather Johnson: "Escaping the extinction vortex: Identifying factors affecting population performance and recovery in endangered Sierra Nevada bighorn sheep" (2010).

Sue Cox Griffin: "Demography and ecology of a declining endemic: the Olympic marmot" (2007; co-advised with Mark Taper).

John Citta: "Metapopulation ecology using mountain bluebirds as a model system" (2005; co-advised with Mark Lindberg).

Paul Griffin: "Source-sink dynamics of snowshoe hares in a fragmented landscape" (2003).

Michael Schwartz: "The influence of gene flow and landscape location on genetic variation in two threatened carnivores: the Canada lynx and San Joaquin kit fox" (2002).

David Tallmon: "Genetic, demographic, and ecological effects of habitat fragmentation" (2001; co-advised with Fred Allendorf).

Students Completing M.S. Degrees to Date

Alex Kumar, M.S. "Effects of a Dynamic Forest Structure on Vital Rates, Behavior and the Seasonal Molt of the Snowshoe Hare" (2015).

Marketa Zimova, M.S. "Camouflage mismatch in seasonal coat color due to decreased snow duration: will snowshoe hares keep up with climate change?" (2013).

Jesse Newby, MS: "Puma dispersal ecology in the central Rocky Mountains" (2011).

Tempa Tshering, MS (non-thesis): "Teaching Wildlife Biology in Bhutan" (2008).

Carly Walker (Lewis): "Landscape structure effects on snowshoe hares in fragmented forests" (2005)

Julia Witzcuk: "Predation by invasive coyotes on declining endemic Olympic marmots" (2007).

Jenny Woolf: "Effects of thinning and prescribed burning on birds and small mammals" (2003).

Tammy Mildenstein: "Habitat selection of large flying foxes using radiotelemetry: targeting conservation efforts in Subic Bay Philippines" (2002).

Reesa Yale: "Do highways influence connectivity in small mammals?" (2002).

Kevin Lair: "The effects of forest fragmentation and forest edge on Columbian Mouse and Southern Red-Backed vole demography" (2001).

John Citta: "An evaluation of demographic sensitivity analysis models" (1998).

Current Graduate Students

Julie Betsch, PhD
 Tashi Dhendup, M.S.
 Jennifer Feltner, PhD
 Tshewang Wangchuk, PhD

Marketa Zimova, PhD
 Alex Kumar, PhD
 Brandon Davis, M.S.

Post-Docs Supported

Diana Lafferty (2015 - 2017); Eugenia Bragina (2015- 2017); Ellen Cheng (2013 – 2014); Rebecca Taylor (2009-2011); Richard Fredrickson (2007-2010); Cindy Hartway (2006-2010); Matt Kaufmann (2004-2006); Karen Hodges (2000-2003)

PUBLICATIONS (reverse chronological order)

**** See <http://scholar.google.com/citations?user=JWFODsoAAAAJ> ****

**** SUMMARY: As of June 2017, my H-Index is 38 and my work has been cited >9,000 times. Twenty-one publications (including my applied population ecology textbook) have been cited >100 times. ****

BOOKS

- 1) Mills, L. S. Conservation of Wildlife Populations: Demography, Genetics, and Management. Wiley / Blackwell Press, 2006 (1st edition); 2013 (2nd Edition) (used in >150 classrooms worldwide to date).
- 2) Mills, L. S., T. Tshering, and E. Cheng. editors. 2013. Wildlife research techniques in rugged mountainous Asian landscapes. Ugyen Wangchuck Institute for Conservation and Environment, Bhutan. ISBN: 978-99937-678-9-6.
- 3) Foresman, K. R., L. S. Mills, and Phurba. 2010. Procedures for Implementing Small Mammal Inventories in Bhutan. Publication of Ugyen Wangchuck Institute for Conservation and the Environment, Bhutan.

PEER-REVIEWED JOURNAL ARTICLES:

- 4) Mills, L. S., E. V. Bragina, A.V. Kumar, M. Zimova, D.J. R. Lafferty, J. Feltner, B M. Davis, K Hackländer, P C. Alves, J. M. Good, J Melo-Ferreira, A Dietz, A V. Abramov, N Lopatina, K Fay. 2018. Winter Coat Color Polymorphisms Identify Global Hotspots for Evolutionary Rescue from Climate Change. *Science*. (Publication date: Feb. 2018).
- 5) Lafferty, D.J.R., A.V. Kumar, S. Whitcher, K. Hackländer, and L. S. Mills. 2017. Within-sample variation in snowshoe hare fecal glucocorticoid metabolite measurements. *Conservation Physiology* 5:1-7.
- 6) Ferreira, M. S., P. C. Alves, C. M. Callahan, J. P. Marques, L. S. Mills, J. M. Good, J. Melo-Ferreira. 2017. The transcriptional landscape of seasonal coat colour moult in the snowshoe hare. *Molecular Ecology*. 26:4173-4185.
- 7) Cheng, E., K. E. Hodges, R. Sollmann, and L. S. Mills. 2017 Genetic sampling for estimating density of common species. *Ecology and Evolution*. 7:6210–6219 [DOI: 10.1002/ece3.3137]
- 8) Kumar, A. V., J. R. Sparks, L. S. Mills. 2017. Short-term response of snowshoe hares to western larch restoration and seasonal needle drop. *Restoration Ecology* doi: 10.1111/rec.12533
- 9) Mills, L. S. 2017. Some matchmaking advice when translocated immigrants are a population's last hope. *Animal Conservation* (invited commentary) 20:12-13.

- 10) Monterroso, P., G. Garrote, A. Serronha, E. Santos, M. Delibes-Mateos, J. Abrantes, R. Pérez de Ayala, F. Silvestre, J. Carvalho, I. Vasco, A. Lopes, E. Maio, M. J. Magalhães, L. S. Mills, P. J. Esteves, Miguel Á. Simón & P. C. Alves. 2016. Disease-mediated bottom-up regulation: An emergent virus affects a keystone prey, and alters the dynamics of trophic webs. *Scientific Reports*. DOI:10.1038/srep36072.
- 11) Horne, J. S., J. J. Hervert, S. P. Woodroff, and L. S. Mills. 2016. Evaluating the benefit of captive breeding and reintroductions to endangered Sonoran pronghorn. *Biological Conservation* 196:133-146.
- 12) Zimova, L. S., L. S. Mills, and J. J. Nowak. 2016. High Fitness Costs of Climate Change Induced Camouflage Mismatch. *Ecology Letters* doi: 10.1111/ele.12568. *Cover Article; (Multiple media interviews, Jan. 2016)*
- 13) Witczuk, J., S. Pagacz, J. Gliwicz, and L. S. Mills. 2015. Niche overlap between sympatric coyotes and bobcats in highland zones of Olympic Mountains, Washington. *Journal of Zoology* 269:176-183.
- 14) Cheng, E., K. E. Hodges, and L. S. Mills. 2015. Impacts of fire on snowshoe hares in Glacier National Park, Montana. *Fire Ecology* 11:119-136.
- 15) Goldberg J. F., T. Tempa, N. Norbu, M. Hebblewhite, L. S. Mills, T. Wangchuk, and P. Lukacs. 2015. Examining temporal scale and model choice with spatial capture-recapture models in the Common Leopard. *PloS One* | DOI:10.1371/journal.pone.0140757.
- 16) Melo-Ferreira, J., F. A. Seixas, E. Cheng, L. S. Mills, and P. C. Alves. 2014. The hidden history of the snowshoe hare, *Lepus americanus*: extensive mitochondrial DNA introgression inferred from multilocus genetic variation. *Molecular Ecology* 23:4617-4630.
- 17) Hodges, K., J. Cunningham, and L. S. Mills. 2014. Avoiding and escaping predators: movement tortuosity of snowshoe hares in risky habitats. *Ecoscience*. 21:97-103. *Cover Article*
- 18) Cheng, E., K. E. Hodges, J. Melo-Ferreira, P. C. Alves, and L. S. Mills. 2014. Conservation implications of the evolutionary history and genetic diversity hotspots of the snowshoe hare. *Molecular Ecology* 23:2929-2942.
- 19) Zimova, M., L. S. Mills, P. M. Lukacs, and M. S. Mitchell. 2014. Snowshoe hares display limited phenotypic plasticity to mismatch in seasonal camouflage. *Proceedings of the Royal Society of London, Series B*. 281:20140029. *Cover Article* [for sample of media coverage see: <http://conservationmagazine.org/2014/03/climate-change-catches-snowshoe-hares-guard/>]
- 20) Mills, L. S., M. Zimova, J. Oyler, S. Running, J. Abatzoglou, and P. Lukacs. 2013. Camouflage mismatch in seasonal coat color due to decreased snow duration. *Proceedings of the National Academy of Sciences* 110:7360-7365. *Cover Article* [widely covered by media, including *National Public Radio All Things Considered (Sunday)*, *Science News*, 'Research Highlights' of *Nature Climate Change*, *McClatchy Newspaper chain*, *Science Update*, *Discover Magazine*; Also: "Faculty 1000" Recommendation].
- 21) Taylor, R. L., J. D. Tack, D. E. Naugle, and L. S. Mills. 2013. Combined effects of energy development and disease on greater sage-grouse. *PLOSONe* 8:e71256: 1-10.
- 22) Witczuk, J., S. Pagacz, L. S. Mills. 2013. Disproportionate predation on endemic marmots by invasive coyotes. *Journal of Mammalogy*. 94:702-713.
- 23) Newby, J. R., L. S. Mills, T. K. Ruth, D. H. Pletscher, M. S. Mitchell, H. B. Quigly, K. M. Murphy, and R. DeSimone. 2013. Human-caused mortality influences spatial population dynamics: pumas in landscapes with varying mortality risks. *Biological Conservation*. 159:230-239.
- 24) Tempa, T., M. Hebblewhite, L. S. Mills, T. Wangchuk, N. Norbu, T. Wangchuk, T. Nidup, P. Dendup, D. Wangchuk, Y. Wangdi, and T. Dorji. 2013. Royal Manas National Park, Bhutan: a hot spot for wild felids. *Oryx* 47:207-210.

- 25) Hartway, C. and L. S. Mills. 2012. A meta-analysis assessing the effects of common management actions on the nest success of North American birds. *Conservation Biology* 26:657-666.
- 26) Taylor, R. L., B. L. Walker, D. E. Naugle, and L. S. Mills. 2012. Managing multiple vital rates to maximize greater sage-grouse population growth. *Journal of Wildlife Management* 76:336-347.
- 27) Johnson, H. E., L. S. Mills, J. D. Wehausen, T. R. Stephenson, and G. Luikart. 2011. Translating effects of inbreeding depression on component vital rates to overall population growth in endangered bighorn sheep. *Conservation Biology* 25:1240-1249.
- 28) Lewis, C. W., Hodges, K. E., and L. S. Mills. 2011. Influence of stand and landscape features on snowshoe hare densities in fragmented forests. *Journal of Mammalogy*. 92:561-567.
- 29) Hebblewhite, M., M. Musiani, and L. S. Mills. 2010. Restoration of gene flow among reintroduced Northern Rockies wolf populations. *Molecular Ecology* 19:4383-4385.
- 30) Pierson, J. C., L. S. Mills, and D. P. Christian. 2010. Foraging patterns of cavity-nesting birds in fire-suppressed and prescribe-burned ponderosa pine forests in Montana. *Open Environmental Sciences* 4:49-60.
- 31) Johnson, H. R., L. S. Mills, T. Stevenson, and J. Weyhausen. 2010. Population-specific vital rate contributions influence management of an endangered ungulate. *Ecological Applications*. 20:1753-1765.
- 32) Johnson, H. R., L. S. Mills, J. Weyhausen, and T. Stevenson. 2010. Combining ground count, telemetry, and mark-resight data to infer population dynamics in an endangered species. *Journal of Applied Ecology*. 47:1083-1093.
- 33) Griffin, S. C., M. L. Taper., R. Hoffman, and L. S. Mills. 2010. Ranking Mahalanobis distance models to develop specific predictions of occupancy from presence-only data. *Journal of Wildlife Management*. 74:1112-1121.
- 34) Humbert, J-Y, L. S. Mills, J. S. Horne, and B. Dennis. 2009. A better way to estimate population trends. *Oikos* 118:1940-1946.
- 35) Hodges, K. E., L. S. Mills, and K. Murphy. 2009. Distribution and abundance of snowshoe hares in Yellowstone National Park. *Journal of Mammalogy*. 90:870-878.
- 36) Griffin, P. C., and L. S. Mills. 2009. Sinks without borders: snowshoe hare dynamics in a complex landscape. *Oikos* 118:1487-1498.
- 37) Griffin, S.C., P. C. Griffin, M. L. Taper, and L. S. Mills. 2009. Marmots on the move? Dispersal in a declining mountain mammal. *Journal of Mammalogy*. 90:686-695.
- 38) Witczuk, J., S. Pagacz, and L. S. Mills. 2008. Optimizing methods for monitoring programs: Olympic marmots as a case study. *Wildlife Research* 35:788-797.
- 39) Hodges, K. E. and L. S. Mills. 2008. Designing fecal pellet surveys for snowshoe hares. *Forest Ecology and Management*. 256:1918-1926.
- 40) Harris, N. C., M. Kauffman, and L. S. Mills. 2008. Inferences about ungulate population dynamics derived from age ratios. *Journal of Wildlife Management* 72:1143-1151.
- 41) Griffin, S. C., M. L. Taper, R. Hoffman, and L. S. Mills. 2008. The case of the missing marmots: are metapopulation dynamics or range-wide declines responsible? *Biological Conservation* 141:1293-1309.
- 42) Griffin, S. C., L. S. Mills, and M. Taper. 2007. Female Olympic marmots (*Marmota Olympus*) reproduce in consecutive years. *American Midland Naturalist* 158:221-225
- 43) Griffin, P. C. and L. S. Mills. 2007. Pre-commercial thinning reduces snowshoe hare abundance in the short term. *Journal of Wildlife Management* 71:559-564.
- 44) Griffin, S. C., T. Valois, M. L. Taper, and L. S. Mills. 2007. Effects of tourists on behavior and demography of Olympic marmots. *Conservation Biology* 21:1070-1081.

- 45) Hard, J.J., Mills, L.S. and Peek, J.M. 2006. Genetic implications of reduced survival of male red deer under harvest. *Wildlife Biology* 12:349-403.
- 46) Griffin, P.C., S. C. Griffin, C. Waroquiers, and L. S. Mills. 2005. Mortality by moonlight: predation risk and the snowshoe hare. *Behavioral Ecology* 16:938-944.
- 47) Mills, L. S., P. C. Griffin, K. E. Hodges, K. McKelvey, L. Ruggiero, and T. Ulizio. 2005. Pellet count indices compared to mark-recapture estimates for evaluating snowshoe hare density. *Journal of Wildlife Management* 69:1053-1062.
- 48) Mildenstein, T. L., S. C. Stier, C. E. Nuevo-Diego, and L. S. Mills. 2005. Habitat selection of endangered and endemic large flying-foxes in Subic Bay, Philippines. *Biological Conservation* 126:93-102.
- 49) Schwartz, M. K., and L. S. Mills. 2005. Gene flow after inbreeding leads to higher survival in deer mice. *Biological Conservation* 123:413-420.
- 50) Tallmon, D. A., and L. S. Mills. 2004. Edge effects and isolation: California red-backed voles revisited. *Conservation Biology* 18:1658-1664.
- 51) Leberg, P. L., M. Carloss, L. Dugas, K. L. Pilgrim, L. S. Mills, M. C. Green, and D. S. Scognamillo. 2004. Recent record of a cougar in Louisiana, with notes on diet, based on analysis of fecal materials. *Southeastern Naturalist* 2:653-658.
- 52) Schwartz MK, Mills LS, Ortega Y, Ruggiero L, Allendorf FW. 2003. Landscape Location Affects Genetic Variation of Canada Lynx (*Lynx canadensis*). *Molecular Ecology* 12:1807-1816.
- 53) Tallmon, D. A., E. S. Jules, N. J. Radke, and L. S. Mills. 2003. Of mice and men and trillium: cascading effects of forest fragmentation. *Ecological Applications* 13:1193-1203.
- 54) Griffin, P.C., L. Bienen, C. M. Gillin, and L. S. Mills. 2003. Estimating pregnancy rates and litter size in snowshoe hares using ultrasound. *Wildlife Society Bulletin* 31:1066-1072.
- 55) Riddle, A. E., K. L. Pilgrim, L. S. Mills, K. S. McKelvey, L. F. Ruggiero. 2003. Identification of mustelids using mitochondrial DNA and non-invasive sampling. *Conservation Genetics*. 4:241-243.
- 56) Funk, W.C., and L. S. Mills. 2003. Potential causes of population declines in forest fragments in an Amazonian frog. *Biological Conservation*. 111:205-214.
- 57) Hoekman, S. T., L. S. Mills, D. W. Howerter, J. H. Devries, and I. J. Ball. 2002. Sensitivity analysis of the life cycle of mid-continent mallards. *Journal of Wildlife Management*. 66:883-900.
- 58) Mills, L. S. 2002. False samples are not the same as blind controls. *Nature* 415:471.
- 59) McKelvey, K. S., G. W. McDaniel, L. S. Mills, P. C. Griffin. 2002. Effects of plot size and shape on pellet density estimates for snowshoe hare. *Wildlife Society Bulletin* 30:751-755.
- 60) Schwartz, M. K., L. S. Mills, K.S. McKelvey, L.F. Ruggiero, and F. W. Allendorf. 2002. DNA reveals high dispersal synchronizing the population dynamics of Canada lynx. *Nature* 415:520-522.
- 61) Biek, R., W. C. Funk, B. A. Maxell, and L. S. Mills. 2002. What is missing in amphibian decline research: Insights from ecological sensitivity analysis. *Conservation Biology*. 16:728-734.
- 62) Tallmon, D. A., H. M. Draheim, L. S. Mills, and F. W. Allendorf. 2002. Insights into recently fragmented vole populations from combined genetic and demographic data. *Molecular Ecology* 11:699-709.
- 63) Biek, R., L. S. Mills, and B. Bury. 2002. Terrestrial and stream amphibians across clear-cut-forest interfaces in the Siskiyou Mountains, Oregon. *Northwest Science* 76:129-140.
- 64) Reed, J. M., L. S. Mills, J. B. Dunning, Jr., E. S. Menges, K. S. McKelvey, R. Frye, S. R. Beissinger, and M-C Anstett, and P. Miller. 2002. Emerging issues in population viability analysis. Invited Paper, *Conservation Biology* 16:7-19.
- 65) Mills, L. S., K. L. Pilgrim, M. K. Schwartz, and K. McKelvey. 2000. Identifying lynx and other North American felids based on mtDNA analysis. *Conservation Genetics* 1:285-288.

- 66) Mills, L. S., D. F. Doak, and M. J. Wisdom. 2001. Elasticity analysis for conservation decision-making: Reply to Ehrlen et al., *Conservation Biology* 15:281-283.
- 67) Mills, L. S., J. J. Citta, K. Lair, M. Schwartz, D. Tallmon. 2000. Estimating animal abundance using non-invasive DNA sampling: Promise and Pitfalls. *Ecological Applications* 10:283-294.
- 68) Wisdom, M. J., L. S. Mills, and D. F. Doak. 2000. Life-stage simulation analysis: estimating vital rate effects on population growth for conservation. *Ecology* 81:628-641.
- 69) Mills, L. S., D. F. Doak, and M. J. Wisdom. 1999. The reliability of conservation actions based on sensitivity analysis of matrix models. *Conservation Biology* 13:815-829.
- 70) Jules, E., E. Frost, D. Tallmon, and L. S. Mills. 1999. Ecological consequences of forest fragmentation in the Klamath region. *Natural Areas Journal* 19:368-378.
- 71) Citta, J. J., and L. S. Mills. 1999. What do demographic sensitivity analyses tell us about controlling brown-headed cowbirds? *Studies in Avian Biology* 18:121-134.
- 72) Soulé, M. E., and L. S. Mills. 1998. No need to Isolate Genetics. *Science* 282:1658-1659.
- 73) Wisdom, M. J., and L. S. Mills. 1997. Using sensitivity analysis to guide population recovery: Prairie chickens as an example. *Journal of Wildlife Management* 61:302-312.
- 74) Mills, L. S., and F. W. Allendorf. 1996. The one-migrant-per-generation rule in conservation and management. *Conservation Biology* 10:1509-1518.
- 75) Mills, L. S. 1996. "Cheetah extinction: genetics or extrinsic factors?" *Conservation Biology* 10:315.
- 76) Morrison, M. L., L. S. Mills, and A. J. Kuenzi. 1996. Study and management of an isolated, rare population: The Fresno Kangaroo rat. *Wildlife Society Bulletin* 24:602-606.
- 77) Power, M.E., D. Tilman, J. Estes, B. A. Menge, W. J. Bond, L. S. Mills, G. Daily, J. C. Castilla, J. Lubchenco, and R. T. Paine. 1996. Challenges in the quest for keystones. *Bioscience* 46:609-620.
- 78) Mills, L. S., S. G. Hayes, C. Baldwin, M. J. Wisdom, J. Citta**, D. J. Mattson, and K. Murphy. 1996. Factors leading to different viability predictions for a grizzly bear data set. *Conservation Biology* 10:863-873.
- 79) Mills, L. S. 1995. Edge effects and isolation: red-backed voles on forest remnants. *Conservation Biology* 9:395-403.
- 80) Power, M. E., and L. S. Mills. 1995. The keystone cops meet in Hilo. *Trends in Research in Evolution and Ecology*. 10:182-184.
- 81) Scott, J. M., T. H. Tear, and L. S. Mills. 1995. Socioeconomics and the recovery of endangered species: biological assessment in a political world. *Conservation Biology* 9:214-216.
- 82) Mills, L. S., and P. E. Smouse. 1994. Demographic consequences of inbreeding in remnant populations. *American Naturalist* 144:412-431.
- 83) Doak, D., and L. S. Mills. 1994. A useful role for theory in conservation. *Ecology* 75:615-626.
- 84) Clarkson, D. A., and L. S. Mills. 1994. Ecological factors associated with *Hypogeous sporocarps* in fragmented forests. *Northwest Science* 68:259-265.
- 85) Tallmon, D.A., and L. S. Mills. 1994. Log use and home ranges of California red-backed voles on a forest remnant. *Journal of Mammalogy*. 75:97-101.
- 86) Mills, L. S., M. S. Soulé, and D. F. Doak. 1993. The keystone species concept in ecology and conservation. *Bioscience* 43:219-224.
- 87) Mills, L. S., R. J. Fredrickson, B. B. Moorhead. 1993. Characteristics of old-growth forests associated with northern spotted owls in Olympic National Park. *Journal of Wildlife Management* 57:315-321.
- 88) Mills, L. S., and F. F. Knowlton. 1991. Coyote space use in relation to prey abundance. *Canadian Journal of Zoology* 69:1516-1521.
- 89) Mills, L. S., and F. F. Knowlton. 1989. Observer performance in known and blind radio-telemetry accuracy tests. *Journal of Wildlife Management*. 52:340-342.

ARTICLES IN BOOKS AND BOOK REVIEWS IN JOURNALS (ALL INVITED ARTICLES)

- 90) Horne, J. S., L. S. Mills, K. M. Strickler, S. A. Temple, and J.M. Scott. 2018. Ecology and management of small populations. Pages XX-YY *In* Techniques for wildlife investigations and management (ed. N. Silvy). *Seventh edition*. The Wildlife Society, Bethesda, Maryland, USA.
- 91) Mills, L. S. 2016. "Adaptive responses in animals to climate change" AccessScience/McGraw-Hill Education. DOI: <http://accessscience.com/content/YB160512>
- 92) Mills, L. S., and H. E. Johnson. 2013. Wildlife Population Dynamics. *In* Krausman, P., editor. Wildlife management: Contemporary principles and practices. John Hopkins University Press.
- 93) Mills, L. S., J. M. Scott, K. M. Strickler, and S. A. Temple. 2012. Ecology and management of small populations. Pages 270-292 *In* Techniques for wildlife investigations and management (ed. N. Silvy). Sixth edition. The Wildlife Society, Bethesda, Maryland, USA.
- 94) Kelly, M. J., J. Betsch, C. Wultsch, B. Mesa, and L. S. Mills. 2011. Noninvasive Sampling for carnivores. Pages 47- 69 *In* Boitani, L. and R. Powell, editors. Carnivore Ecology and Conservation. Oxford University Press, Oxford, UK.
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- 81) Mills, L. S. 2006 "Contributing Author" to "Chapter 14: North America" by Field, C. B., L. D. Mortsch, M. Brklacich, D. L. Forbes, P. Kovaks, J. A. Patz, S. W. Running and M. J. Scott, in: Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the **Intergovernmental Panel on Climate Change**, M. L. Parry, O. F. Canziani, J. P. Palutikof, P. J. van der Linden and C. E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 6127-652.
- 97) Mildenstein, T.L., L.S. Mills, P. Landres, G. Rochefort, J. Scharberl. 2006. Recreation impacts on wildlife: review of recent research and a call for investigation of population and community level effects. Final report to Mount Rainier National Park.
- 98) Mills, L. S., J. M. Scott, K. M. Strickler, and S. A. Temple. 2005. Ecology and management of small populations. Pages 691-713 *in* Braun, C. E., editor. Techniques for wildlife investigations and management. Sixth edition. The Wildlife Society, Bethesda, Maryland, USA. (Invited Article).
- 99) Mills, L. S., and M. E. Soulé. 2006. A brief history of the role of genetics in conservation. Invited article ("box") in Conservation Genetics textbook by F. Allendorf and G. Luikart.
- 100) Mills, L. S., M. K. Schwartz, D. A. Tallmon, and K. P. Lair. 2003. Measuring and interpreting changes in connectivity for mammals in coniferous forests. Pages 587-613 in C. J. Zabel and R. G. Anthony, editors. Mammal Community Dynamics: Management and Conservation in the Coniferous Forests of Western North America. Cambridge University Press, New York, USA.
- 101) Griffin, P. C., and L. S. Mills. 2003 "Snowshoe hares in a dynamic managed landscape." Pages 438-449 in Editors H. R. Akcakaya, M. A. Burgman, O. Kindvall, C. Wood, P. Sjogren-Gulve, J. Hatfield, and M. A. McCarthy. Species Conservation and Management: Case Studies. Oxford University Press.
- 102) Mills, L. S., and M. Lindberg. 2002. "Sensitivity Analysis to Evaluate the Consequences of Conservation Actions." Pages 338-366 *in* S. R. Beissinger and D. R. McCullough, editors. Population Viability Analysis. University of Chicago Press.

- 103) Mills, L. S. 2002. "Genetics, Demography, and Viability of Fragmented Populations." (Book Review) *Quarterly Review of Biology* 77:222-223.
- 104) Mills, L. S., and D. Tallmon. 1999. "Genetic issues in forest fragmentation." Pages 171-184 in *Forest Fragmentation: Wildlife and Management Implications*. J. Rochelle, L. A. Lehmann, and J. Wisniewski, eds. Brill Publishers (Netherlands).
- 105) Dobson, A., K. Ralls, M. Foster, M. E. Soule, D. Simberloff, D. Doak, J. A. Estes, L. S. Mills, D. Mattson, R. Dirzo, H. Arita, S. Ryan, E. A. Norse, R. F. Noss, and D. Johns. 1999. "Connectivity: maintaining flows in fragmented landscapes." Pages 129-171 In *Soulé, M. E. and J. Terborgh, editors. Continental Conservation: Scientific Foundations of Regional Reserve Networks*. Island Press.
- 106) Groom, M., D. B. Jensen, R. L. Knight, S. Gatewood, L. Mills, D. Boyd-Heger, L. S. Mills, and M. E. Soulé. 1999. "Buffer zones: benefits and dangers of compatible stewardship." Pages 191-198 In *Soulé, M. E. and J. Terborgh, editors. Continental Conservation: Scientific Foundations of Regional Reserve Networks*. Island Press.
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- 108) Mills, L. S. 1996. "Fragmentation of a natural area: Dynamics of isolation for small mammals on forest remnants." Pages 199-219 In *Wright, G., editor. National Parks and Protected Areas: Their Role in Environmental Protection*. Blackwell Press.
- 109) Mills, L.S. 1996. "Keystone Species." in *Paehlke, R., editor. Encyclopedia of Conservation and Environmentalism*. Garland Publishing Co., New York.
- 110) Mills, L.S. 1995. "Keystone Species." Pages 381-387 in *Encyclopedia of Environmental Biology*. Academic Press, Inc.
- 111) Mills, L.S. 1994. "Book Review: Principles of Conservation Biology." *Northwest Science* 68:303-304.
- 112) Soulé, M.E., and L. S. Mills. 1992. "Conservation genetics and conservation biology: a troubled marriage." Pages 55-69 in *Sandlund, O. T., K. Hindar, and A. H. D. Brown, eds., Conservation of Biodiversity for Sustainable Development*. Scandinavian Univ. Press, Oslo.

OTHER PROFESSIONAL PUBLICATIONS

- 113) Mills, L. S. 2016. A deadly game of hide and seek. "Crown of the Continent and the Greater Yellowstone" magazine, Spring 2016.
- 114) Mills, L. S. 2017. REPRINTING OF "A deadly game of hide and seek". In *Mountain Views Chronicles of the Consortium for Integrated Climate Research in Western Mountains CIRMOUNT Volume 11, No. 1, May 2017* www.fs.fed.us/psw/cirmount/.
- 115) McKelvey, K.S.; Perry, R.W.; Mills, L.S. 2013. *The Effects of Climate Change on Mammals*. U.S. Department of Agriculture, Forest Service, Climate Change Resource Center. <http://www.fs.fed.us/ccrc/topics/wildlife/mammals/index.shtml>
- 116) Hodges, K. E. and L. S. Mills. 2005. Snowshoe hares in Yellowstone. *Yellowstone Science* 13:3-6.
- 117) Yale, R. and L. S. Mills. 2000. "Do highways fragment small mammal populations?" *Proceedings of the International Conference on Ecology and Transportation*.
- 118) Zager, P., L. S. Mills, W. Wakkinen, and D. Tallmon. 1995. "Woodland caribou --a conservation dilemma." *Endangered Species Update* 12:1-4.

- 119) Mills, L. S. 1995. "The use of population ecology approaches to assess re-introduction of endangered Selkirk Caribou." Final report, submitted to: a) Idaho Fish and Game; b) Washington Department of Wildlife.
- 120) Mills, L. S. 1995. "The role of population ecology in guiding wildlife translocations." Final report, submitted to U.S. Forest Service, Missoula, MT.
- 121) Cassidy, K., E. O. Garton, W. B. Krohn, L. S. Mills, J. M. Scott, and K. Williams. 1994. "National guidelines for assessment of reliability of GAP vertebrate distributions." National Biological Survey.
- 122) Mills, L. S. 1994. "Effects of forest fragmentation on small mammals in Southwest Oregon." COPE Report [(Coastal Oregon Productivity Enhancement Program), an educational non-technical publication for forest managers.] 7:6-8.
- 123) Mills, L. S. and M. Morrison. 1993. "Final Report: Ecology of the Fresno Kangaroo Rat and associated small mammals at NAS Lemoore". Prepared for Lemoore Naval Air Station.
- 124) Fredrickson, R.J., L.S. Mills, and B.B. Moorhead. 1989. "Spotted owl surveys in Olympic National Park -- 1988 and 1989." Olympic National Park, Port Angeles, WA.
- 125) Mills, L.S., R.J. Fredrickson, B.B. Moorhead, and D.U. Sharp. 1988. "Spotted owl distribution along elevation and vegetation gradients in Olympic National Park." 1988 Progress Report. Olympic National Park, Port Angeles, WA.

SUCCESSFUL EXTERNAL RESEARCH GRANTS AND PROJECTS (SINCE 2000)

(I AM PI UNLESS OTHERWISE NOTED)

- Mills, L. S. Research Experience for Undergraduates: Fostering Native American Research. National Science Foundation; \$16,130 (IDC=0); 5/1/17-5/1/18.
- Mills, L. S. Preliminary evaluation of monitoring and treatment evaluation for effects of forest restoration on focal hare and carnivore species. The Nature Conservancy. \$25,000 (IDC = 0). 6/17 - 6/18.
- Mills, L.S. Integrated Population Modeling and Viability Analysis for Lynx and Wolverine in Sweden. Swedish Environmental Protection Agency; \$109,788 (IDC = \$34,072). 5/17 – 5/18.
- World Wildlife Fund Education for Nature (Bhutan) World Wildlife Fund; \$23,000 (IDC=0); 1/1/17-1/1/18.
- Interactions of Human-Caused Mortality, Genetic Introgression, and Management among Wild Red Wolves: Developing Scientific Consensus. U.S. Fish and Wildlife Service (co-PI with Krishna Pacifici). \$172,000; 2/16 – 2/17.
- A synthesis of appropriate science-based criteria for Scandinavian wolves. Swedish Environmental Protection Agency; \$39,438; 7/15-7/16.
- Mills, L. S. Research Experience for Undergraduates: Experiential Learning in Field Ecology for Combat Veterans. National Science Foundation; \$14,822; 4/1/16-5/1/17.
- Evaluating Population Cycles and Spatial Synchrony Using Long-Term Demographic and Genetic Data on Snowshoe Hares. National Science Foundation (LTREB 5-year renewal); \$450,000; 5/1/2014-5/1/2019. *(See below for first 5 years of this 10-year funded project)*
- Elephants on the Line: A Community-based Conservation Program for the Bhutan-India Border Landscape. USFWS Competitive Grants, International Office (Asian Elephant Conservation Fund); \$49,884; 7/1/14 – 7/1/15.

- Development Of An Adaptive Management Framework For The Conservation Of The New England Cottontail (*Sylvilagus transitionalis*) And Testing Population Response To Eastern Cottontail (*Sylvilagus floridanus*) Control. US Geologic Survey (USGS); \$214,000; 5/9/14 – 5/8/17.
- Development of a wildlife habitat matrix to inform forest management on Fort Bragg (co-PI with Chris Moorman and Chris DePerno) (US Army); \$250,000; 6/1/14 – 5/31/18.
- Snowshoe hare relative abundance and movement in fire-distributed landscapes. USDA Forest Service; \$10,365; 8/1/14 – 8/1/15.
- Understanding Spillover of a Deadly Virus in a Well-studied African Lion Population (co-PI with my PhD student Julie Betsch and multiple collaborators). Morris Animal Foundation; \$100,000; 7/2013 – 7/2016.
- Snowshoe hare response to forest treatment and decreasing snowpack under climate change. Bureau of Land Management; \$200,000. 9/11 – 10/15.
- Mariana fruit bat recovery project on Rota Island (co-PI with my PhD student Tammy Mildenstein). Department of Defense; \$198,000. 9/2011 – 9/2012.
- LTREB: Evaluating Population Cycles and Spatial Synchrony Using Long-Term Demographic and Genetic Data on Snowshoe Hares; National Science Foundation; \$375,000. 3/09 – 3/14.
- REU Supplement to NSF LTREB grant; National Science Foundation; \$7,000. 3/9 – 2/11.
- Connecting down-scaled climate models to adaptation for a key forest species. (co-PI with Dr. Mike Mitchell). USGS NCCWSC; \$412,290. 10/1/09 – 9/30/12.
- Population Viability Analysis for Greater Sage-Grouse (coPI with Dr. David Naugle). Bureau of Land Management; \$100,943. 11/4/08 – 9/30/11.
- Developing a cost-effective non-invasive alternative to live-trapping for abundance estimation. (Co PI with PhD student Ellen Cheng). Animal Welfare Institute. \$10,000; 5/1/08 – 4/30/09
- Evaluation of risks and benefits of population augmentation options to facilitate recovery of bighorn sheep in the Peninsular Ranges, CA. 77K; CA Fish and Game; 6/1/08 – 6/1/09.
- Impacts of agriculture through habitat loss and subsidy on threatened native species: case study of flying foxes in the Philippines. Bat Conservation International; \$4,000 (With PhD student Tammy Mildenstein).
- A Risk Assessment Framework for Defining Scientifically-Defensible Recovery Goals for Listed Species. "SERDP" Program, Dept. of Defense. \$296,880; 8/2006 – 9/2009
- Diet and genetic analysis of coyotes and other carnivores in Olympic National Park. Olympic National Park. \$5,200. 4/1/2007-12/30/2008.
- Population Viability Assessment for Mariana Fruit Bats on Guam (With PhD student Tammy Mildenstein). US Fish and Wildlife Service \$5,350. 2/26/2007 – 4/30/2007.
- Marmots on the move? Dispersal in a declining mountain mammal. National Park Service. \$12,500. 4/2007 – 10/2007. (With PhD student Sue Griffin).
- Quantitative conservation analysis support for The Nature Conservancy (Co-PI with Elizabeth Crone). \$32,964. 11/2006 – 10/2007.
- Development of wildlife indicators at Mt. Rainier National Park. Mount Rainier National Park. \$23,383; 9/1/2006 – 4/30/2008.
- Genetic and demographic factors to improve recovery of Sierra Nevada Bighorn Sheep. California Dept. of Fish and Game. \$144,210; 7/2005 – 7/2008..
- Connectivity in a heterogeneous landscape: the genetics and population dynamics of Olympic Marmots. National Science Foundation "Collaborative Research" Award. Co-PI with Mark Taper (Montana State University). 8/2004 – 8/2007. \$325,000.

- Assessing long-term trophic control of aspen demography: effects of wolves and elk over large spatial scales. National Parks Foundation and Ecological Society of America. 5/2004 – 5/2007. \$150,000. Co-PI with Matthew Kauffman (post-doc) and John Maron (DBS).
- Sensitivity analysis of sage grouse (With Dave Naugle). Bureau of Land Management. \$12,000; 7/2005 – 6/2006.
- Evaluating the prey base for lynx in Glacier National Park: snowshoe hare abundance, habitat use, and population dynamics. Co-PI with Karen Hodges (my post-doc). National Park Service, Natural Resources Protection Program. \$432,745; 1/1/2005 – 12/31/2007
- Snowshoe hare and red squirrel relative abundance and distribution in Yellowstone National Park. National Park Service. \$21,500; 5/1/2002 – 12/30/2004
- Temporal dynamics of snowshoe hares in Yellowstone National Park. Co-PI with Karen Hodges (post-doc). \$8,500; 9/1/2004 – 12/30/2005.
- Snowshoe hare habitat use in fragmented forests in northern Washington. Co-PI with Karen Hodges (post-doc). Washington Dept of Fish and Wildlife. \$87,968; 1/1/2003 – 6/25/2005.
- REU (Research Experience for Undergraduates) Supplement to Snowshoe Hare/Lynx Demography and Genetics study. National Science Foundation. \$6,000; 5/1/2002 – 5/31/2003.
- Measuring and evaluating connectivity in Olympic marmots. NSF “EPScOR”. 5/1/2002 – 1/31/03. \$36,725. (A sister proposal was submitted by Mark Taper, my collaborator at MSU).
- Comparison of pellets to hare densities. USFS Science and Leadership in Cooperation Grant. \$221,500; 9/2000 – 6/ 2004.
- Molecular analysis of threatened lynx and other mammals in the national park system. National Park Service. 10/1/2001 – 9/1/2004. \$18,000 + \$11,500 (As of December 02) = \$29,500. PI.
- Calibrating landscape models of spatially structured snowshoe hare populations. Co-PI with John Goodburn. McIntire-Stennis. \$39,994; 1/2001 – 5/2004.
- Acquisition of instrumentation for research in evolutionary and conservation genetics. Co-PI with P. Kukuk and F. Allendorf. National Science Foundation. \$128,000; 6/13/2000 – 8/31/2000.
- Snowshoe hare response to thinning. Plum Creek. \$82,884; 2/28/2000 – 7/1/2002.
- Supplemental Funding to support Undergraduate Research (REU). National Science Foundation. \$9,750; 3/2000 – 12/2002.
- Highways as potential barriers to movement and genetic exchange in small vertebrates. Montana Department of Transportation. \$176,591. 5/1/2000 – 12/31/2002.
- Snowshoe hares and lynx in a fragmented landscape: merging demographic and genetic approaches. National Science Foundation CAREER grant. \$330,000; 6/1999 – 6/2003

SELECTED MAJOR COMPETITIVE GRANTS IN SUPPORT OF RESEARCH BY MY GRADUATE STUDENTS (SINCE 2000)

NSF Dissertation Improvement Grant (approx. \$10,000): Paul Griffin (2001); Ellen Cheng (2008).
 NSF Graduate Student Research Fellowship (“GRFP”) (approx. \$120,000): Sue Griffin (2003); Julie Betsch (2011); Alex Kumar (2014), Jennifer Feltner (2015).
 EPA Graduate Student Fellowship (\$84,000): Sue Griffin (2001).
 Canon National Parks Science Scholarship (approx. \$80,000; 3 yr): Sue Griffin (2004); Heather Johnson (2007).
 PEO Dissertation Fellowship (approx. \$15,000): Heather Johnson (2009).
 Budweiser Conservation Scholarship (approx. \$10,000): Jenny Woolf (2000), Sue Griffin (2004), Heather Johnson (2007).

SELECTION OF PROFESSIONAL PRESENTATION (SINCE 2003)

INVITED WORKSHOPS AS LEADER

“CONNECTING ELEPHANT FRIENDLY TEA CERTIFICATION TO ELEPHANT VITAL RATES AND POPULATION RECOVERY.”
KAZARINGA NATIONAL PARK, INDIA. MAY 8-10, 2017

“Biological and policy aspects of hybridization in endangered species, with implications for red wolf recovery.” Atlanta, Georgia. May 2016.

“Wildlife Research Techniques in Rugged Mountainous Asian Landscapes.” Ugyen Wangchuk Institute for Conservation and the Environment. Bhumthang, Bhutan. May 13-20, 2010.

Small Mammal Research Techniques and Survey Design. Manas National Park, Bhutan. Feb. 11-16, 2010.

Using Sensitivity Analysis of Population Viability Models to Guide Management Decisions. Workshop at National Meeting of The Wildlife Society; Miami, FL; 11/8/2008.

SERDP: Risk Assessment framework for defining scientifically defensible recovery goals for listed species. Coeur d’Alene, Idaho, February 2007.

“Monitoring with Noninvasive Genetic Sampling.” (half-day workshop). Part of a workshop for Forest Service Biologists: Wildlife Habitat and Plant Management Workshop. Blacksburg, VA. March 2003.

SELECTED INVITED WORKSHOPS AS PARTICIPANT/PRESENTER

Workshop on Asian Elephant Research and Conservation in Northeast India. Guwahati, India.

I presented 3 talks over 2 days (May 11/12, 2017):

- Integrating science and conservation: from field data to models to management
- Genetic Tools to Estimate Abundance (And More!)
- Estimating connectivity with genetic tools

Scientific Integrity: Producing, incorporating, and advocating for science in the age of alternative facts. Panel Discussion at Montana Chapter Meeting, The Wildlife Society, Feb. 2017.

Interactions of human-caused mortality, genetic introgression, and management among wild red wolves in NC. Panel Discussion member. Wildlife Society Annual Meeting, Raleigh, N.C., October 2016.

Webinar presentation, sponsored by USGS National Climate Change Wildlife Science Center, 7/9/13:

“Can camouflage keep up with climate change? White hares on brown snowless backgrounds as a model to study adaptation to climate stress.”

Florida Panther model development workshop (Florida Fish and Game, USFWS, and Univ. of Florida); St. Petersburg, FL; Oct. 2007.

Partners in Environmental Technology Technical Symposium and Workshop; DoD SERDP Program; Washington, D.C. December 2008.

The influence of wolves and multiple factors on elk trends in Idaho, Montana and Wyoming (Dr. Matt Kauffman, convener); Missoula, MT, June 2006.

- Mills, L. S. Small mammal and bird responses to thinning and burning. 6th Annual SMIC meeting, Missoula, MT, September 14, 2004.
- Scientific Panel assembled by Olympic National Park and Bureau of Reclamation to investigate effects of removal of dams on Elwha River [Port Angeles, WA, March 2003].
- Scientific Panel Invited by International Whaling Commission to discuss use of genetic tools for determining stock structure and movement. "Testing of Spatial Structure Models"; San Diego, CA, January 2003.

SELECTION OF INVITED CONFERENCE TALKS (SINCE 2003)

- Mills, L.S. Keynote Address: The need for monitoring wildlife population in the Himalayas. In: Special Symposium ("Conservation Biology and Wildlife Research Symposium on Monitoring Forest Biodiversity through Non-Invasive Sampling Techniques"), Ugyen Wangchuck Institute for Conservation and Environment. Bumthang, Bhutan. (November 2014).
- Mills, L. S. The potential for adaptation to climate change: confronting mismatch in seasonal coat color, Invited Symposium at The Wildlife Society, Milwaukee, WI (August 2013)
- Melo-Ferreira, J., F. Seixas, E. Cheng, L. S. Mills, P. C. Alves. Cryptic Divergence and ancestral hybridization among North American hares (*Lepus* spp.). 11th International Mammal Congress, Belfast, Ireland. August 2013
- Mills, L. S., M. Zimova, J. Good., C. Breuner, P. Alves, and J. M. Ferreira. Intersecting snow models, radiotelemetry, transcriptomes and hormone assays to unravel and interpret seasonal coat color change. Plenary Talk at World Lagomorph Congress, Vienna, Austria (July 2012).
- Mills, L. S. Can camouflage keep up with climate change? Seasonal coat color confronts a globally decreasing snowpack. Invited Symposium talk, The Wildlife Society, Snowbird, Utah, Oct. 2010.
- Mills, L. S. Overview of impacts and possible responses for terrestrial wildlife in western Montana. Anticipating Climate Change: A FWP workshop focused on northern Coniferous Forest ecosystems, alpine meadows, and the Clark Fork upstream of Idaho to the Bitterroot River headwaters. Kalispell, MT 12/09. (Invited Plenary Lecture)
- Mills, L. S. Wildlife responses to climate change: Adapt, move, or die. Conference of biologists and planners from National Park Service, US Forest Service, and Montana: Climate Change in the Crown of the Continent: Identifying Multi-Jurisdictional Strategies. Whitefish, MT 12/3/08. . (Invited Plenary Lecture)
- Mills, L. S., Will *Lepus* successfully respond to global warming: A proposed rangewide research initiative. Invited Plenary Talk, 3rd World Lagomorph Conference, Morelia, Mexico, 10/30/08.
- Mills, L. S. Keeping conservation biology thriving for the next 22 years. Plenary Lecture, Annual Research Symposium of the Montana Chapter of the Society for Conservation Biology. 10/10/2008.
- Mills, L. S., J-Y Humbert, J. S. Horne and B. Dennis. Is my population recovering, decreasing, or stationary? Improving the status quo for estimating exponential trend from count data. Society for Conservation Biology, Chattanooga, TN, July 2008.
- Dennis, B., J-Y Humbert, L. S. Mills and J. S. Horne. Estimating ecological trend: which model should I use? Society for Conservation Biology, Chattanooga, TN, July 2008.
- Mills, L. S., J. M. Scott, O. Garton, M. Kauffman, C. Hartway, J. Horne, K. Strickler. New biological tools for assessing management of listed species on DoD lands. North American Wildlife and Natural Resources Conference, Portland, OR, March 2007.

- Mills, L. S. A wildlife scientist's view on the concept of viability of wildlife populations. 28th Annual Public Land Law Conference, Public Land & Resources Law Review. Missoula, MT, Oct. 2004.
- Hodges, K.E. and L.S. Mills. Spatial ecology of snowshoe hares. Joint meeting, Lynx Biology Team and Lynx Steering Committee, Winthrop, WA, Oct. 2004.
- McKelvey, K. S. and L. S. Mills. Lynxgate: Genesis, controversy, and lessons learned. Invited Talk at "Ethics Panel" at Ecological Society of America meetings, Portland, OR, July 2004.
- Mills, L. S., and R. Conrey. Highways affect connectivity of small mammals... and brief thoughts on deciding how much connectivity is too little. Invited symposium talk, Society for Conservation Biology, Duluth, MN, July 2003.
- Mills, L. S. Identification of carnivore species using non-invasive sampling. Plenary Speaker in Workshop on "Modern Genetics for Resource Managers", George Wright Society (National Park Service Meeting) April 2003.

SELECTED INVITED SEMINARS AT OTHER UNIVERSITIES (SINCE 2001)

- April 2017: Western Illinois University, McComb; Roger and Jean Morrow Distinguished Lecture Series
- March 2017: Utah State University, Logan
- February 2016: Duke University, Durham
- January 2016: University of California, Santa Barbara (Bren School of the Environment)
- March 2015: University of South Carolina, Beaufort, Biology Department and General Public
- March 2015: North Dakota State Univ., Biological Sciences Graduate Student Association Invited Speaker
- Feb. 2015: Appalachian State University, Biology Department Invited Speaker
- Jan 2015: Clemson University, Natural Resources Graduate Student Association Invited Speaker
- September 2014: University of Wisconsin Wildlife Ecology Department
- April 2014: Monmouth College Distinguished Speaker: "McMullen Lecture Series"
- January 2014: Fondazione Edmund Mach (Trentino, Italy)
- December 2013: SUNY Syracuse
- September 2012: North Carolina State University Zoology Seminar
- November 2012: University of Montana Organismal Biology and Ecology seminar.
- January 2012: University of Alberta, Edmonton
- December 2011: Texas A&M, College Station
- April 2008: University of Alaska, Juneau
- April 2008: Department of Conservation Biology; Donana Biological Station, Sevilla, Spain
- April 2008: University of Porto, Portugal
- March 2008: University of Florida, Wildlife Ecology Department
- April 2007: University of Montana, Math/Stats Departmental seminar
- Feb. 2006: University of Montana, Organismal Biology and Ecology seminar
- March 2006: University of North Dakota, Grand Forks, ND
- November 2005: University of Wellington, New Zealand
- July 2004: Mountain Lake Biological Station. Pembroke, VA
- Feb. 2004: University of California, Santa Barbara
- March 2003: Virginia Tech University, Blacksburg, VA
- Feb. 2003: University of Virginia, Charlottesville, VA
- Sept. 2002: University of Maine, Orono, ME
- April 2002: Montana State University, Bozeman, MT
- Feb. 2001: "The Colloquium in the Life Sciences", Colorado State University, Fort Collins, CO

OTHER CONTRIBUTED CONFERENCE [THROUGH 2007]:

- 2003-2007: 10 contributed presentations
- 1999 through 2002: 21 contributed presentations
- 1995 through 1999: 8 contributed presentations
- Prior to 1995: 9 contributed presentations

SELECTED CONTRIBUTED CONFERENCE PRESENTATIONS (SINCE 2008)

- Hackländer K, M. Zimova, S. Suhrer, H. Jenny, J. Melo-Ferreira, P.C. Alves, and L. S. Mills. 2017. Coat colour change pattern in Alpine mountain hares (*Lepus timidus varronis*) along an altitudinal gradient in Grisons, Switzerland. 12th International Mammalogical Congress. Perth, Australia. July 2017.
- Jones, M. R., Melo-Ferreira, J., Alves, P. C., Callahan, C. M., D. J. Lafferty, J. D. Jensen, L. S. Mills, J. M. Good. (2017). Molecular and evolutionary origins of seasonal camouflage in snowshoe hares. Society for Molecular Biology and Evolution. Austin.
- Mills LS, Bragina E, Fay K, Zimova M, Davis B, Kumar A, Lafferty DJR, Feltner J, Hackländer K, Alves P, Melo-Ferreira J, Pacifici K (2016) Lagging morphs of lagomorphs in winter. World Lagomorph Society, Turlock, CA, USA.
- Kumar, A. and L. S. Mills. 2016. The cascading effects of circannual phenologies across trophic levels. World Lagomorph Society, Turlock, CA, USA.
- Zimova, M., L. S. Mills and J. J. Nowak (2016). High fitness costs of climate change-induced camouflage mismatch. World Lagomorph Society Conference, Turlock, CA.
- Jones, M. R., Melo-Ferreira, J., Alves, P. C., Callahan, C. M., D. J. Lafferty, J. D. Jensen, L. S. Mills, J. M. Good. 2016. The evolution of seasonal camouflage. American Society of Mammalogists.
- Lafferty DJR, Bragina E, Clontz L, Davis B, Fay K, Feltner J, Kumar AV, Sanders D, Venezia R, Whitcher S*, Zimova M, Mills LS (2016) Cultivating collaborations across the academic hierarchy: essential training for the next generation of wildlife ecologists. The Wildlife Society, Raleigh, NC, USA
- Hackländer K, Venezia R, Palme R, Mills LS (2015): Stress responses in snowshoe hares facing mismatch of coat colour and their environment. [7th European Congress of Mammalogy, Stockholm, AUG 17-21, 2015], Abstract In: Angerbjörn A, Dalén L, Elmhagen B, Werdelin L, Abstracts 7th European Congress of Mammalogy, 99
- Mills, L. S. Seasonal Coat Color and Climate Change in Mammals: A Global Model System to Understand Adaptive Rescue European Society of Mammalogists Meeting, Stockholm, August 2015
- Zimova M., S. Mills, M. Mitchell, P. Lukacs, and J. Novak. Camouflage mismatch in seasonal coat color due to decreased snow duration: Will snowshoe hares keep up with climate change? European Society of Mammalogists Meeting, Stockholm, August 2015.
- Zimova M., L. S. Mills, and J. J. Nowak. Climate change and the high fitness costs of seasonal camouflage mismatch in snowshoe hares. Evolution annual meeting, June 2014, Raleigh, NC
- Kumar, A.V., L.S. Mills and J. Sparks. *The Cascading Effects of Circannual Phenologies Across Trophic Levels - How Western Larch affect the Coat Color Molt in Snowshoe Hares*. The Wildlife Society's 22nd Annual Conference, Winnipeg, MB. 19 October 2015.

- Zimova M., S. Mills, M. Mitchell, P. Lukacs, and J. Novak. Camouflage mismatch in seasonal coat color due to decreased snow duration: Will snowshoe hares keep up with climate change? Society for Conservation Biology annual meeting, July 2014, Missoula MT.
- Johnson, H., L. S. Mills, J. Wehausen, T. Stephenson, and G. Luikart. Translating effects of inbreeding depression on component vital rates to overall population growth in endangered bighorn sheep. Society for Conservation Biology annual meeting, July 2014, Missoula MT.
- Larkin, B., L. S. Mills, and S. Surher. Photos and phenotypes: using camera trap images to monitor seasonal coat color change in snowshoe hares. Society for Conservation Biology annual meeting, July 2014, Missoula MT.
- Hodges, K., and L. S. Mills. High variability in snowshoe hare densities in their southern range. Society for Conservation Biology annual meeting, July 2014, Missoula MT.
- Melo-Ferreira, J., F. Seixas, E. Cheng, L. S. Mills, P. C. Alves. Cryptic Divergence and ancestral hybridization among North American hares (*Lepus* spp.). 11th International Mammal Congress, Belfast, Ireland. August 2013
- Alves, P. C., J. Melo-Ferreira, J. Vilela, M. Zimova, J. Good, and L. S. Mills. *Evolution of coat-color seasonal variation in hares (Lepus)*. Society for the Study of Evolution, Snowbird, Utah, June 2013.
- Zimova, M., and L. S. Mills. Seasonal coat color camouflage confronts globally decreasing snowpack Plenary Talk at World Lagomorph Congress, Vienna, Austria (July 2012).
- Pagacz, S., J. Witzuk, S. C. Griffin & L. S. Mills; Optimizing methods for wildlife monitoring programs: Range-wide occupancy sampling of Olympic Marmots. International Congress for Conservation Biology (ICCB) (Edmonton, Alberta); July 2010.
- Witzuk, J., S. C. Griffin & L. S. Mills. Non-native coyote predation on endemic marmots; International Congress for Conservation Biology (ICCB) (Edmonton, Alberta); July 2010.
- Mills, L. S., J-Y Humbert, J. S. Horne, and B. Dennis. A better way to estimate population trend. European Congress of Conservation Biology, Prague, Czech Republic, 9/09.
- Hodges, K. E., and L. S. Mills. Snowshoe hare population dynamics in fragmented western forests. Ecological Society of America, Albuquerque, N.M., 8/6/2009.
- Johnson, H.E., L.S. Mills, J.D. Wehausen, and T.R. Stephenson. 2009. Integrated analysis of minimum count, mark-resight & telemetry data to estimate demographic parameters in an endangered species. Ecological Society of America, Annual National Conference, Albuquerque, NM. 8/09.
- Cheng, E., L.S. Mills, and K.E. Hodges. August 2009. Spatial synchrony in snowshoe hares: investigating large-scale patterns & processes. Ecological Society of America (Albuquerque, NM).
- Johnson, H.E., L.S. Mills, T.R. Stephenson, and J.D. Wehausen. 2009. Identifying key vital rates for endangered Sierra Nevada bighorn sheep recovery. Desert Bighorn Council Biannual Meeting, Grand Junction, CO.
- Griffin, S. C., J. W. Witzuk, M. L. Taper, and L. S. Mills. Non-native predators implicated in declines of Olympic marmots. George Wright Society conference (National Park Service); Portland, 3/18/09.
- Cheng, E., L.S. Mills, and K.H. Hodges. March 2008. Comparison of non-invasive genetic and traditional approaches to estimating animal abundance. Northwest Section and Washington Chapter of The Wildlife Society (Spokane, WA).
- Cheng, E., L.S. Mills, and K.E. Hodges. October 2009. Spatial synchrony in snowshoe hares: patterns, processes, and who cares? Society for Conservation Biology (Flagstaff, AZ).
- Cheng, E., L.S. Mills, and K.E. Hodges. August 2009. Spatial synchrony in snowshoe hares: patterns, processes, and who cares? Society for Conservation Biology (Beijing, China).

- Cheng, E., L.S. Mills and K.E. Hodges. 2008. A comparison of non-invasive genetic and traditional approaches to estimating animal abundance. Northwest Section of The Wildlife Society Annual Meeting. Spokane, WA.
- Cheng, E., L.S. Mills and K.E. Hodges. 2008. A comparison of non-invasive genetic and traditional approaches to estimating animal abundance. Montana Chapter of The Wildlife Society Annual Meeting. Missoula, MT.

SELECTED CONFERENCE POSTERS (SINCE 2004)

- Lafferty, DJR; Kumar, A; Whitcher, SL; Hackländer, K; Palme, R; Mills, LS (2016): Within-sample variation in snowshoe hare fecal glucocorticoid metabolite measurements. 5th World Lagomorph Conference, Turlock, California, July 11-15.
- Zimova, M., L. S. Mills, P. C. Alves, J. Melo-Ferreira (2016). Interspecific competition, hybridization, replacement and adaptation: a case study using whole genome sequencing in hares from Scotland. Poster. Congenomics. Porto, Portugal.
- Davis BM, Mills LS, Kays R, Pacifici K, Powell RA. The Weasel Coat Color Molt: Phenological Response to Climate Change. Poster presented at: The Wildlife Society Annual Conference; October 2016; Raleigh, NC
- Sanders De'Aja, Davis B, Lafferty DJR, Mills LS (2016) Camera trap limitations: quantifying error rates and assessing impacts on animal behavior. The Wildlife Society, Raleigh, NC, USA
- Lafferty DJR, Bragina E, Clontz L, Davis B, Fay K, Feltner J, Kumar AV, Sanders D, Venezia R, Whitcher S, Zimova M, Mills LS (2016) Snowshoe hare conservation physiology: a catalyst for cultivating collaborations. North Carolina State University Postdoctoral Research Symposium, Raleigh, NC, USA – Poster presentation
- Venezia, R; Lafferty, D; Hackländer, K; Palme, R; Mills, LS (2016): Physiological stress response of snowshoe hares (*Lepus americanus*) to environmental enrichment. 5th World Lagomorph Conference. [Abstract in Endangered Species Recovery Program, California State University Stanislaus, Proceedings of the 5th World Lagomorph Conference, Turlock, California, July 11-15, 2016, 112].
- Clontz L, Lafferty DJR, Zimova M, Hackländer K, Palme R, Mills LS. (2016) Environmental factors influence measures of physiological stress in snowshoe hares. The Wildlife Society, Raleigh, NC, USA.
- Venezia R, Lafferty DJR, Hackländer K, Palme R, Mills LS (2016) Measuring stress in captive wildlife: how enrichment can be used to mediated stress to experimental treatments. The Wildlife Society, Raleigh, NC, USA.
- Kumar, A.V., L.S. Mills and J. Sparks. Effects of Stand Structure Manipulation on the Seasonal Color Molt and Vital Rates of Snowshoe Hares. The Wildlife Society's 21st Annual Conference, Pittsburgh, PA. 27 October 2014
- Betsch, J.B., Roelke-Parker, M., Dubovi, E., Packer, C., Cleaveland, S., Mills, L.S. August 2013. Understanding the emergence of Canine distemper virus in Serengeti lions. Viral Evolution and Molecular Epidemiology Bioinformatics Workshop. Gainesville, FL.
- Betsch, J.B., Roelke-Parker, M., Dubovi, E., Davis, B., Packer, C., Cleaveland, S., Mills, L.S. September 2014. Evolutionary genetics of clinical *Canine distemper virus* emergence in *Panthera leo*: understanding heterogeneity in exposure outcome in Serengeti lions. Viral Evolution and Molecular Epidemiology Bioinformatics Workshop. Rome, Italy.
- Hartway, C., L. S. Mills, M. Kauffman, J. M. Scott, O. Garton, J. Horne, and K. Strickler. New tools for

prioritizing management actions for species of concern on Department of Defense lands. The Partners in Environmental Technology Technical Symposium, Dept. of Defense. Washington, DC. Dec. 2007.

- Hartway, C., L. S. Mills, and M. Kauffman. Can the effects of anthropogenic disturbance on species demography be generalized? National Military Fish and Wildlife Association Training Workshop, Portland, OR. March 2007.
- Bryant, A.A., S.C. Griffin, M.L. Taper, L.S. Mills. October 2006. Seasonal mortality patterns in Vancouver Island marmots and Olympic marmots. Bi-annual British Columbia Provincial Wildlife Meeting. Prince George, BC (poster).
- Griffin, S.C., T. Valois, S. Sells, L.S. Mills, M.L. Taper. March 2005. The effects of tourist pressure on behavior and demography in Olympic marmots. (poster – presented by S. Sells, an undergraduate intern on the marmot project 2004). Northwest Scientific Association Meetings, Portland, OR.
- Holben, W.E., E.D. Inkley, and L.S. Mills. 2004. Microbial Tools for Wildlife Studies: Biogeographical Analysis of Snowshoe Hares Based on Fecal Pellet Microflora. 104th Annual Meeting of the American Society for Microbiology, New Orleans, LA.

SELECT INVITED PRESENTATIONS TO PUBLIC AND/OR NON-UNIVERSITY GROUPS (SINCE 2007)

- Roger and Jean Morrow Distinguished Lecture (Public Lecture), Western Illinois University, McComb, IL. April 2017.
- McMullen “Distinguished Lecturer” Series for Earth Day, Monmouth College, Public Seminar: Seven Billion Humans Meet Nine Million Other Species. April 2014.
- Mills, L.S. (and 5 of my undergraduate and graduate student hare field crew): Two days of talks in the field to a Missoula County Extension kids summer camp called “I-Nature”. July 2012.
- Mills, L. S., R. Taylor, and D. Naugle. Sage grouse viability analysis and management alternatives. Presentation to approximately 50 Bureau of Land Management Staff (Montana and Wyoming), Miles City, MT, Sept 2010.
- Mills, L. S. What wildlife ecology fieldwork is all about. Full-day training session on field techniques to 6 undergraduates from Puerto Rico participating in the Univ. MT “IM-SURE” Program. June 16, 2009.
- Mills, L. S. Climate change and winter coats. Half-day training lectures to all Interpreters/Naturalists at Glacier National Park, June 10, 2009.
- Mills, L. S. Snowshoe hares in Glacier National Park and North America: food for lynx and a potential sentinel for climate change. Waterton-Glacier Science and History Day, July 22, 2008.
- Mills, L. S. “Climate change effects on wildlife: move, deal with it, adapt, or die.” Public talk, Juneau Alaska (Interview about my talk on National Public Radio, Juneau Affiliate: April 11 2008.
- Griffin, S.C., J. Witczuk, L.S. Mills, and M.L. Taper. The Olympic Marmot: Natural History and Research Update. Seminar for interpretive staff. Olympic National Park, Port Angeles, WA. June 2007.
- Griffin, S.C. February 2007. The Olympic Marmot: A Pleistocene Relic in a Rapidly Changing World. Lecture for the Klahhane Club. Sequim, WA.

RECENT INVITED PROFESSIONAL COMMITTEE INVOLVEMENT (SINCE 2007)

- Panelist for EPA-STAR Graduate Fellowships (‘Terrestrial Animal Ecology’ section). Washington, D.C. (Feb. 2012).
- Panelist to evaluate all Swedish Biodiversity Research from 2002-2006, sponsored by Swedish Research

Council and the Research Council for Environment, Agricultural Sciences and Spatial Planning. Stockholm, Sweden. (April 2010).

Panelist for Evolutionary and Population Ecology Grant Advisory Panel, Washington, D. C. (2004, 2006, and 2011).

Panelist for National Science Foundation Doctoral Dissertation Improvement Grant Panel (Population and Evolutionary Processes), Washington, D.C. (December 2008).

Participant in Montana Fish, Wildlife and Parks' Science Methodology Review Team as (part of the Crucial Areas and Wildlife Corridors Assessment Process) (2008).

Member, Western Governors Association Climate Change Working Group to assess "Corridors and Climate Change. Involved multiple working sessions and production of a report unveiled to all western Governors, Secretary of Interior, and others (Report can be accessed at: <http://www.westgov.org/wga/publicat/wildlife08.pdf>). (December 2007 to June 29, 2008).

ACTIVE INTERNATIONAL RESEARCH AND CAPACITY BUILDING PROGRAMS

Bhutan: Capacity building for ecological research (multiple visits: 3 weeks in Jan. 2007; Six months in 2010 supported by Guggenheim Fellowship; 2 weeks in Oct. 2012; 2 weeks Nov 2014; 2 weeks April 2016); three Bhutanese PhD students.

India: Asian elephant work (outreach and education)

Phillippines: fruit bat work with Tammy Mildenstein (MS and PhD student); 1998-present.

Portugal: NSF-supported exchange with Univ. of Porto, Portugal (visited for 10 days in April 2008); part of UM delegation to Porto Fall 2009 to set up university exchange; hosted 5 visits by Portuguese collaborators 2006-present; active research grant collaborators.

Scotland: Visited summer 2012 as part of NSF-sponsored International Exchange; beginning collaboration on mountain hares in Scotland.

Sweden: Invited reviewer of Biodiversity research (2010); Invited Reviewer of large carnivore management (2013), Invited expert evaluator of conservation status for wolves (2015).

EDITORSHIPS

Associate Editor of "Journal of the Bhutan Ecological Society"
 Associate Editor of Journal of Wildlife Management
 Associate editor of Ursus

Selected MEDIA COVERAGE and INTERVIEWS (selected, since 2001)

- April 2017: Hosted National Geographic Filmmakers seeking to film snowshoe hares at my long-term study sites.
- My work is the focus of a book by acclaimed children's writer, Sneed B. Collard III: ("Hopping ahead of climate change: snowshoe hares, science, and survival"); Fall 2016 publication (the book was covered in Science [2016 Dec. 9, 354(6317):1226].
- I produced a stand-alone video on "Wildlife Adaptation to Climate Change" for The Great Animal Orchestra Symphony premiered by the North Carolina Symphony on April 17, 2016 : <https://drive.google.com/file/d/0BwCwv6vkgJKsLTZmMTduYlZCVHM/view?usp=sharing>

- A sampling of just some of the interviews and media coverage of our article in *Ecology Letters* (Zimova et al. 2016) showing high mortality for climate change-induced camouflage mismatch in snowshoe hares [selected from >40 radio, newspaper, and online outlets]:
 - Featured top science story on *Newswise* feed
 - *AAAS Science Update* radio story: <http://www.scienceupdate.com/2016/01/hare-2/>
 - Voice of America News: “Winter white puts hares at risk”
 - National Public Radio: KPLU, Seattle, Washington: <http://www.kplu.org/post/snowshoe-hares-predated-wearing-white-out-season>
 - Featured story on NSF’s Science360: <http://news.science360.gov/archives/20160125>
 - Featured on U.S. Geographical Survey website, social media, photo gallery
 - *Forbes*: <http://www.forbes.com/sites/jvchamary/2016/01/29/snow-hare-climate-change/#4752efbb2ccb>
 - Yahoo News: <http://news.yahoo.com/color-changing-rabbits-t-cope-warmer-world-020343779.html>; ylt=AOLEVjw T7JWIKYANcQnnllQ; ylu=X3oDMTBybGY3bmpvBGNvbG8DYmYxBHBvcwMyBHZ0aWQDBHNIYwNzcg--
 - How Stuff Works: <http://now.howstuffworks.com/2016/01/27/climate-change-snowshoe-hare-camouflage>
- Coverage of our new project starting in Scotland on mountain hares: “Running Out of Time?” by Amy-Jane Beer in *BBC Wildlife Magazine* August 2015.
- Interviewed for article on red wolf hybridization, evolution and conservation: “The Opposite of Extinction” by Ellie Kincaid on *Scienceline* (17 Jan. 2016).
- “West Virginia Snowshoe Hare Study Links Camouflage and Climate Changes”; article on our new work in W. VA in *Charleston Gazette*, by John McCoy: <http://www.wvgazette.com/article/20140907/GZ07/140909623> Sunday, Sept. 7, 2014:
- “Thinning Hares raise concerns across PA. *Pittsburgh Tribune*, Bob Fry, 3/1/14. <http://triblive.com/sports/outdoors/5655516-74/hares-pennsylvania-boyd#axzz3lqvQyu9G>
- “Total White Out: Snowshoe Hares VS Global Warming”, by Lesley Evans Ogden in *New Scientist* 23 Nov. 2014.
- National Association of Science Writers “Science in Society Award” 2013 (one of 5 awards) presented to freelancer Hillary Rosner for an article on my snowshoe hare research [“The Color of Bunny” in *High Country News*]
- Featured on NPR’s Morning Edition News Show (Sunday Edition), 9/8/2013 <http://www.npr.org/2013/09/08/220188619/climate-change-leaves-hares-wearing-the-wrong-colors>
- Coverage of 2013 PNAS paper included: ScienceNow (Science magazine), Nature Climate Change, Discover Magazine, Climate Wire, NPR Morning Edition, This Week in PNAS, Today’s Science, Weather Channel, and more
- *Toronto Star*, 9/11/12 (“Climate change conundrum: will Arctic animals’ wardrobes be able to adapt?”)
- *High Country News*, 2/6/12 (“The Color of Bunny”)
- “The Color of Bunny” was also re-published in the “Independent” Newspaper syndicate.
- *Newsweek* magazine, 8/3/09 (“The case of the disappearing rabbit”)
- *National Geographic Kids*, October 2009 (Canada lynx: the comeback cat)
- UM publications:

- Vision Magazine*, 2008 (“Hare today, gone tomorrow?”) and Spring 2000
Montanan Magazine, Spring 2008. Featured in “Leaders in the Field” story. Also Spr. 2000
- *The Boundary*, Pincher Creek, Alberta, 8/8/08 (“global warming creates an awkward predicament for the snowshoe hare”)
 - *New York Times*, 3/10/2009 (“Tools that leave wildlife unbothered widen research horizons”)
 - *Science Daily*, 2/24/09 (“Climate change hurting hares: White snowshoe hares can’t hide on brown earth”)
 - *High Country News*, 2/16/09 (“Canary in the old growth: the search for an ecosystem’s vital signs”)
 - *New York Times*, 5/6/2007 (“Walking on the wild side of a Montana University”)
 - *The Nature of Things With David Suzuki*, 9/28/00 interview
 - Multiple interviews regarding our *Nature* article (Schwartz et al. 2000) on lynx movements:

<i>Science News</i>	<i>Discovery Channel Canada</i>
<i>Rocky Mountain News</i>	<i>National Geographic News</i>
<i>National Public Radio “All Things Considered”</i>	
 - Multiple Interviews Jan. 2000 – March 2001 regarding National Lynx Survey (not related to our lynx movement work):

<i>Science News</i>	<i>Sierra Magazine</i>
<i>Spokesman-Review newspaper</i>	<i>Oregonian Newspaper</i>
<i>Audubon magazine</i>	<i>American Hunter</i>
<i>Seattle Times newspaper</i>	<i>World News Tonight</i>

CURRICULUM Developed by Others From my Research (Selected, since 2005)

- Camouflage and Climate Change. Grade 6-8 Teacher Curriculum developed by PEER Outreach Program at Texas A&M University. (Developed 2012)
http://peer.tamu.edu/DLC/NSF_Resources.asp?ID=1325&type=browse&num=60&terms=&content=allcontent&subject=science&grade=allgrades&query=query&hl=no&count=447&number=60&view=yes
- Climate Change as a Selective Force. Natural Selection Lab developed for Introductory Biology Classes at Ohio University, Athens, Ohio. (Developed 10/13).