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ECOLOGY, EVOLUTION, AND ENVIRONMENTAL SCIENCE
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ACADEMIC TRAINING

1998 Ph.D., Wildlife Science, University of Washington, Seattle, Washington
1993 M.M.A., Marine Policy, University of Washington, Seattle, Washington
1992 B.A., Environmental Biology, Mills College, Oakland, California

POSITIONS HELD

2014 Director, Center for Biodiversity Outcomes, Arizona State University, Tempe, AZ
2013- Professor, Arizona State University, Tempe, AZ
2011- Senior Sustainability Scientist, Arizona State University, Tempe, AZ
2011- Affiliate Faculty, School of Public Affairs, Arizona State University, Tempe, AZ
2010-11 Distinguished Visiting Associate Professor, UC Santa Barbara, Santa Barbara, CA
2009-10 Sabbatical Fellow, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA
2007- Exemplar Associate Professor, Arizona State University, Tempe, AZ
2002-07 Assistant Professor, Arizona State University, Tempe, AZ
1999-02 Postdoctoral Fellow, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA
1993-8 Marine Ecologist, National Marine Mammal Laboratory, Seattle, WA
1992-3 Biological Diversity Associate, Center for Marine Conservation, Seattle, WA

GRANTS AND RESEARCH CONTRACTS

➤ *Unless otherwise indicated, LRG is principal investigator*

2014 Arizona State University, seed funding for Center for Biodiversity Outcomes (1.25M)
2013 The Lighthouse Foundation (\$81,000)
2012 National Center for Ecological Analysis and Synthesis (\$37,000)
2012 The Walton Family Foundation (\$30,000)
2012 NOAA, Pacific Islands Fishery Science Center (\$24,000)
2012 The Field Family Foundation (\$3,500)
2011 The Center for Independent Experts (\$8,000)
2010 NOAA, Hawaiian Monk Seal Recovery Program (\$17,000)
2009 The Nature Conservancy (\$60,000)
2008 The Pew Charitable Trust, Lenfest Ocean Program (\$342,000)
2007 Arizona State University, Promotion and Tenure Exemplar (\$50,000)
2006 The David and Lucile Packard Foundation (\$40,000)
2006 NSF, Developing Global Scientists and Engineers (\$20,000)
2006 The Ocean Foundation (\$45,000)
2005 Conservation International (\$40,000)
2005 ASU University-School Partnerships (\$12,000; N. Crocker, C. Saltz, M. Elser, D. White)
2004 The David and Lucile Packard Foundation (\$30,000)
2004 NSF, Undergraduate Mentoring in Environmental Biology (\$60,000; PI: J. Collins, ASU)
2004 NSF, Faculty Early Career Development Award (\$550,000; including 5 REU supplements)
2003 The David and Lucile Packard Foundation (\$205,275; PI: E. Sala, UCSD)
2003 The Tinker Foundation (\$107,000; PI: E. Sala, UCSD)
2003 World Wildlife Fund, Mexico (\$30,000)
2003 Conservation International (\$60,000; PI E. Sala, UCSD)
2001 USGS, National Wildlife Health Laboratory Contract (\$9,000)
1998 NOAA, Endangered Species Act Implementation Grant (\$21,000; PI: G. VanBlaricom, UW)

- 1998 NOAA, National Marine Mammal Laboratory Research Contract (\$5,000)
- 1998 New Zealand Squid Fishery Management Council Contract (\$5,000; PI: R. Hilborn, UW)
- 1997 NOAA, Endangered Species Act Implementation Grant (\$25,000; PI: G. VanBlaricom, UW)
- 1997 NOAA, National Marine Mammal Laboratory Research Contract (\$5,000)
- 1996 North Pacific Marine Mammal Research Consortium Grant (\$10,000)
- 1996 NOAA, Endangered Species Act Implementation Grant (\$24,000; PI: G. VanBlaricom, UW)
- 1995 US Marine Mammal Commission Research Contract (\$5,000)
- 1994 NOAA, Southwest Fisheries Science Center Research Contract (\$7,500)
- 1993 NOAA, National Marine Mammal Laboratory Research Contract (\$2,500)
- 1992 North Pacific States Marine Fisheries Commission Research Contract (\$4,500)

PUBLICATIONS

- *H-index is 26 (2308 total citations, 81.6 citations per year, 2.63 authors per paper, <http://scholar.google.com/citations?user=DDdIgSAAAAAJ&hl=en> as of 1-30-14).*
- *Graduate student co-authors are underlined, undergraduates are double-underlined, and postdocs are italicized.*

2014

97. **Gerber, L.R.**, M. Cisneros-Machos, M.I. O'Connor, and E. Selig. 2014. Climate change impacts on connectivity in the ocean: Implications for conservation. *Ecosphere* 5(3):33.
<http://dx.doi.org/10.1890/ES13-00336.1>
96. **Gerber, L.R.**, C. Costello and S. Gaines. 2014. Conservation markets for wildlife management with case studies from whaling. *Ecological Applications* 24:4–14.
95. **Gerber, L.R.**, C. Costello and S. Gaines. 2014. Facilitate, don't forbid trade between conservationists and resource harvesters. *Ecological Applications*. 24:23–24.
94. **Gerber, L.R.**, A. Gondor, C. *D'Agrosa* and J. *Anadon*. 2014. Conservation prioritization to conservation action in the Gulf of California, Mexico. *Journal of Conservation Planning* 10:1-16.

2013

93. **Gerber, L.R.**, and E. White. 2013. Males Matter: Frequency dependence in matrix population models. *Journal of Applied Ecology*. DOI: 10.1111/1365-2664.12177.
92. Gregory, R., J. Arvai and **L.R. Gerber**. 2013. Structured decision making for managing threatened and endangered species. *Conservation Biology* 27(6):1212-1221.
91. Minter, B.A. and **L.R. Gerber**. 2013. Buying whales to save them. *Issues in Science and Technology* 29: 58-68.
90. *Anadon, J.A.*, M. Cisneros-Machos, B. Best and **L.R. Gerber**. *In Press*. Habitat-Specific larval dispersal and marine connectivity: Implications for reserve design. *Ecosphere*.
89. **Gerber, L.R.**, R. *Karimi* and T. Fitzgerald. 2013. Does trophic level indicate seafood sustainability? *Frontiers in Ecology and the Environment*. doi:10.1890/13.WB.007.
88. Senko, J., E. White and **L.R. Gerber**. 2013. Comparing bycatch mitigation strategies for vulnerable marine megafauna. *Animal Conservation* DOI: 10.1111/acv.12051.
87. Cuddington, K., A. Hastings, M.J. Fortin, **L.R. Gerber**, M. O'Connor, C. Ray. 2013. Process-based models are required to manage ecological systems in a changing world. *Ecosphere* 4 (2) art20.
86. A.N. Rife, O. Aburto-Oropeza, P.A. Hastings, B. Erisman, F. Ballantyne, J. Wielgus, E. Sala, and **L.R. Gerber**. 2013. Long-term effectiveness of a multi-use marine protected area on reef fish assemblages and fisheries landings. *Journal of Environmental Management* 117 (2013) 276e283.

2012

85. R. Wildermuth, J.A. *Anadon* and **L.R. Gerber**. 2012. Monitoring behavior: Assessing population status through rapid behavioral assessment. *Conservation Letters* doi:10.1111/j.1755-263X.2012.00298.x.

84. D.A. Rudnick, P. Beier, S. Cushman, F. Dieffenbach, C.W. Epps, **L.R. Gerber**, J. Hartter, J. Jenness, J. Kintsch, A.M. Merenlender, R.M. Perkl, D.V. Preziosi, *S.J. Ryan*, and S.C. Trombulak. 2012. The Role of Landscape Connectivity in Planning and Implementing Conservation and Restoration Priorities. *Issues in Ecology* 16: 1-20.
83. **L.R. Gerber**. 2012. The scientific whaling loophole. *Science* 337(6098):1038.
82. Costello, C., **L.R. Gerber** and S. Gaines. 2012. A market approach to save the whales. *Nature* 481: 139-140.
81. **Gerber, L.R.**, *R. Karimi* and T. Fitzgerald. 2012. Sustaining seafood for public health. *Frontiers in Ecology and the Environment*. doi:10.1890/120003.
80. Fujitani, M.L., E. Fenichel, J. Torres, and **L.R. Gerber**, L.R. 2012. Marine reserves protect fish from people: Assessing the effects of a marine reserve on human use. *Ecological Applications* 22(2): 597-605.
79. Flatz, R., *J.K. Young*, M. Gonzalez-Suarez, C.J. Hernandez and **L.R. Gerber**. 2012. Weak polygyny in California sea lions and the potential for alternative mating tactics. *PLoS ONE* 7(3): e33654.

2011

78. *Anadon, J.A.*, A.Gondor and **L.R. Gerber**. 2011. Quantifying the spatial ecology of wide-ranging marine species in the Gulf of California: Implications for marine conservation planning. *PLoS ONE* 6(12): e28400.
77. **Gerber, L.R.**, J. Estes, T. Gancos-Crawford, L. Peavey and A.J. Read. 2011. Managing for extinction? Conflicting conservation objectives in a large marine reserve. *Conservation Letters* 1755-263X.2011.00197.x
76. Hughes, Z.D., E.F. Fenichel, and **LR Gerber**. 2011. The Potential Impact of Labor Choices on the Efficacy of Marine Conservation Strategies. *PLoS ONE* 6(8): e23722
75. French, S.S., *J.K. Young*, M.Gonzalez-Suarez, **L.R. Gerber**. 2011. The influence of human disturbance on reproductive rate and pup condition for California sea lions (*Zalophus californianus*) in the Gulf of California, Mexico. *PLoS ONE* 6(3): e17686
74. Underwood, J.G., Francis, J. and **L.R. Gerber**. 2011. Incorporating biodiversity conservation and recreational values into smart growth land use planning. *Landscape and Urban Planning* 100:136-143.

2010

73. *Chirakkal, H.*, and **L.R Gerber**. 2010. Short and long-term population response to changes in vital rates: Implications for demographic population viability analysis. *Ecological Applications* 20(3): 783-788.
72. *Wielgus, J.*, A. Balmford, T. Lewis, C. Mora and **L.R. Gerber**. 2010. Coral reef quality and recreation fees in marine protected areas. *Conservation Letters* 3:38-44.
71. **Gerber, L.R.**, *J.K. Young*, M. Gonzalez-Suarez, C.J. Hernandez-Camacho and J.L. Sabo. 2010. The cost of male aggression and polygyny in California sea lions (*Zalophus californianus*). *PLoS ONE* 5(8): e12230.
70. *Morissette, L.*, *K. Kaschner* and **L.R. Gerber**.2010. Ecosystem models clarify the role of whales off Northwest Africa. *Fish and Fisheries* 11:388-404.
69. Green, D.S., *J.K. Young*, C.J. Hernandez-Camacho, and **L.R. Gerber**. 2010. Seeking a non-invasive indicator of population status: Neonate behavior and condition in California sea lions. *Ciencias Marinas*. 36(3): 311-321.
66. González-Suárez, M., D. Aurióles-Gamboa and **L.R. Gerber**. 2010. Past exploitation of California sea lions did not lead to a genetic bottleneck in the Gulf of California. *Ciencias Marinas* 36(3):199-211.
67. *Ward, E.*, *Chirakkal, H.*, M. Gonzalez-Suarez, D. Aurióles-Gamboa, E. Holmes and **L.R. Gerber**. 2010. Inferring spatial structure from time series data: using multivariate state-space models to detect

metapopulation structure of California sea lions in the Gulf of California, Mexico. *Journal of Animal Ecology* 47(1): 1365-2664.

66. Morissette, L., K. Kaschner and L.R. Gerber. 2010. Do whales deplete fisheries in Northwest African waters? *Marine Ecology Progress Series* 404: 289-302.
65. Underwood, J., C. D'Agrosa and L.R. Gerber. 2010. Identifying conservation areas based on alternative prioritization methods and distribution data sets. *Conservation Biology* 24(1):162-170.
64. Flatz R. and L.R. Gerber. 2010. First evidence for adoption in California sea lions. *PLoS ONE* 5(11): e13873.

2009 (*maternity leave Spring 2009*)

63. K. Stamieszkin, J. Wielgus, L.R. Gerber. 2009. Management of a marine protected area for sustainability and conflict resolution: Lessons from Loreto Bay National Park, Baja California Sur. *Ocean and Coastal Management* 52(9):449-458.
62. Wielgus, J., L.R. Gerber, E. Sala and J. Bennett. 2009. Including scenario risk in stated preference valuations: An experiment on choices for marine recreation. *Environmental and Resource Economics* 90(11): 3401-3409.
61. Holcomb, K., J. Young and L.R. Gerber. 2009. The influence of human disturbance on the behavior of California sea lions during the breeding season. *Animal Conservation* 12: 592-598
60. González-Suárez, M., Flatz, R., Aurióles-Gamboa, D., Hedrick, P.W. and L.R. Gerber. 2009. Isolation by distance among California sea lion populations in Mexico: redefining management stocks. *Molecular Ecology* 18:1088-1099.
59. Gerber, L.R., L. Morissette, K. Kaschner and D. Pauly. 2009. Should Whales Be Culled to Increase Fishery Yield? *Science* 323: 880-881.

2008

58. Wielgus, J., M. Gonzalez-Suarez, D. Aurióles-Gamboa and L.R. Gerber. 2008. A non-invasive method to estimate demographic rates based on abundance data. *Ecological Applications* 18(5):1287-1296.
57. González-Suárez, M. and L.R. Gerber. 2008. A behaviorally explicit demographic model integrating habitat selection and population dynamics in California sea lions. *Conservation Biology* 22(6): 1608-1616.
56. Jacobs, D.F., J.K. Young, C.J. Hernandez and L.R. Gerber. 2008. Determinants of outcomes of agonistic interactions among male California sea lions. *Journal of Mammalogy* 89(5):1212-1217.
55. Gonzalez-Suarez, M. and L.R. Gerber. 2008. Habitat preferences of California sea lions: Implications for conservation. *Journal of Mammalogy* 89(6):1521-1528.
54. Young, J.K., M. Gonzalez-Suarez and L.R. Gerber. 2008. Determinants of agonistic interactions in California sea lions. *Behavior* 145: 1797-1810
53. Wielgus, J., E. Sala, and L.R. Gerber. 2008. Assessing the ecological and economic benefits of a no-take marine reserve. *Ecological Economics* 67: 32-40.
52. Hernandez-Camacho, C.J., D. Aurióles-Gamboa, J. Laake and L.R. Gerber. 2008. Age-specific survival rates of California sea lions (*Zalophus Californianus*) in the Gulf of California, Mexico. *Journal of Mammalogy* 89(4): 1059-1066.
51. Robertson, K., C.W. Runcorn, J. Young and L.R. Gerber. 2008. Spatial and temporal patterns of territory use of male California sea lions (*Zalophus californianus*) in the Gulf of California, Mexico. *Canadian Journal of Zoology* 86: 237-244.
50. Hernandez-Camacho, C.J., D. Aurióles-Gamboa, and L.R. Gerber. 2008. Age-specific birth rates of California sea lions (*Zalophus Californianus*) in the Gulf of California, Mexico. *Marine Mammal Science* 24(3):664-676.
49. Underwood, J., C. Hernandez, and L.R. Gerber. 2008. Assessing the impact of bycatch on California sea lions in the Gulf of California. *Conservation Biology* 23: 1523-1739.
48. Young, J.K. and L.R. Gerber. 2008. The influence of social composition on reproductive behavior of territorial male California sea lions. *Aquatic Mammals* 34(1): 103-110.

47. Rowell, K., K. Flessa, D. Dettman, M. Roman, L. Finlay and L.R. Gerber. 2008. Diverting the Colorado River leads to a dramatic life history shift in an endangered marine fish. *Biological Conservation* 141: 1138-1148.

2007

46. **Gerber, L.R., J. Wielgus** and E. Sala. 2007. A decision framework for the adaptive management of marine reserves. *Conservation Biology* 21(6):1594-1602.
45. *Ward, E., R. Hilborn, R. Towell and L.R. Gerber*. 2007. A state-space mixture approach for estimating catastrophic events in time series data. *Canadian Journal of Fisheries and Aquatic Sciences*. 64: 899-910.
44. **Gerber, L.R., A.C. Keller,** and D.P. DeMaster. 2007. Ten thousand and increasing: Is the Western Arctic stock of bowhead whales endangered? *Biological Conservation* 137:577-583.
43. *Wielgus J., F. Ballantyne, E. Sala and L.R. Gerber*. 2007. Viability analysis of reef fish populations based on limited demographic information. *Conservation Biology* 21:447-454.
42. *Young, J.K., L.R. Gerber* and C. D'Agrosa. 2007. Wildlife population increases in Serengeti National Park (commentary). *Science* 213: 1790-1791.
41. *Sabo, J.L. and L.R. Gerber*. 2007. Predicting extinction risk despite predator prey oscillations. *Ecological Applications* 17(5):1543-1154.
40. *Gaines, S.D., B. Gaylord, L.R. Gerber, A. Hastings and B. Kinlan*. 2007. Connecting places: The ecological consequences of dispersal in the sea. *Oceanography* 20(3):90-99.
39. *Young, J.K., C.J. Hernandez and L.R. Gerber*. 2007. Long-distance movement of a pinniped neonate. *Marine Mammal Science*. 23(4): 926-930.

2006

38. **Gerber, L.R.** 2006. Including behavioral data in demographic models may improve estimates of population viability. *Frontiers in Ecology and the Environment* 4(8):419-427.
37. *Zacharias, M.A., L.R. Gerber, K. D. Hyrenbach*. 2006. Review of the Southern Ocean Sanctuary: Marine protected areas in the context of the International Whaling Commission Sanctuary Programme. *Journal of Cetacean Research and Management* 8(1):12-25.
36. *Gonzalez-Suarez, M., K.E. McCluney, D. Aurioles, and L.R. Gerber*. 2006. Incorporating uncertainty in spatial structure for viability predictions: A case study of California sea lions (*Zalophus californianus californianus*). *Animal Conservation* 6:219-227.

2005 (*maternity leave Spring 2005*)

35. **Gerber, L.R., D. Hyrenbach** and M.A. Zacharias. 2005. Do the world's largest protected areas conserve whales or whalers? *Science* 307:525-526.
34. **Gerber, L.R., M. Beger,** M.A. McCarthy, and H.P. Possingham. 2005. A theory for optimal monitoring of marine reserves. *Ecology Letters* 8(8): 829-837.
33. **Gerber, L.R., K.D. Lafferty, H. McCallum J.L. Sabo** and A. Dobson. 2005. Exposing extinction risk analysis to pathogens: Is disease just another form of density dependence? *Ecological Applications* 15(4): 1402-1414.
32. **Gerber, L.R., D. Hyrenbach** and M.A. Zacharias. 2005. Debating whale sanctuaries. *Science (letter)* 309:51-52.
31. **Gerber, L.R., S. Heppell, F. Ballantyne** and E. Sala. 2005. The role of dispersal and demography in determining the efficacy of marine reserves. *Canadian Journal of Fisheries and Aquatic Sciences* 62:863-871.
30. *McCallum, H., L.R. Gerber,* and *A. Jani*. 2005. Does infectious disease influence the efficacy of marine protected areas? A Theoretical Framework. *Journal of Applied Ecology* 42 (4): 688-698.
29. *Green, J.L., A. Hastings, P. Arzberger, F. Ayala, K. Cottingham, K. Cuddington, F. Davis, J. Dunne, M. Fortin, L.R. Gerber,* and M. Neubert. 2005. Complexity in ecology and conservation: mathematical, statistical, and computational challenges. *BioScience* 55:6.

2004

28. **Gerber, L.R.** and K.E. Buenau and G. VanBlaricom. 2004. Density dependence and risk of extinction in a small population of sea otters. *Biodiversity and Conservation* 13: 2741-2757.
27. Harvell, D., R. Aronson, N. Baron, J. Connell, A. Dobson, S. Ellner, **L.R. Gerber**, K. Kim, A. Kuris, H. McCallum, K. Lafferty, B. McKay, J. Porter, M. Pascual, G. Smith and K. Sutherland. 2004. The rising tide of ocean diseases: Unsolved problems and research priorities. *Frontiers in Ecology and the Environment* 2(7):375-382.
26. **Gerber, L.R.**, *M.T. Tinker*, D. Doak and J. Estes. 2004. Mortality sensitivity in life-stage simulation analysis: A case study of Southern sea otters. *Ecological Applications* 14(5): 1554-1565.
25. **Gerber, L.R.** and S.S. Heppell. 2004. The use of demographic sensitivity analysis in marine species conservation planning. *Biological Conservation*. 120:121-128.
24. Hooker, S. and **L.R. Gerber**. 2004. Potential importance of megafauna: Marine reserves as a tool for ecosystem-based management? *BioScience* 54(1):29-41.
23. Micheli, F., P. Amarasekare, J. Bascompte, and **L.R. Gerber**. 2004. Including species interactions in the design and evaluation of marine reserves: Simple rules from a predator-prey model. *Bulletin of Marine Science* 74(3):653-669.
22. Keller, A.C. and **L.R. Gerber**. 2004. Monitoring and the Endangered Species Act: Revisiting the Eastern North Pacific Gray Whale. *Endangered Species Update* 20(1): 87-92.
21. **Gerber, L.R.**, O.J. Reichman and J. Roughgarden. 2004. Food hoarding: future value in optimal foraging decisions. *Ecological Modeling* 175:77-85.

2003

20. **Gerber, L.R.**, *E.W. Seabloom*, R. Burton and O.J. Reichman. 2003. Translocation of an imperiled species: Integrating spatial and habitat patterns. *Animal Conservation* 6:309-316.
19. Buenau, K.E. and **L.R. Gerber**. 2003. Developing recovery and monitoring strategies for the endemic Mount Graham Red Squirrel (*Tamiasciurus hudsonicus grahamensis*) in Arizona. *Animal Conservation* 7:1-6.
18. **Gerber, L.R.** 2003. Delisting of species under the Endangered Species Act. *Conservation Biology* 17(3):651-652.
17. Sheldon, K.E, D.J. Rugh, D.P. DeMaster and **L.R. Gerber**. 2003. An evaluation of bowhead whale status. *Conservation Biology* 17(3): 918-920.
16. **Gerber, L.R.**, L. Botsford, A. Hastings, H. Possingham, S. Gaines, S. Palumbi and S. Andelman. 2003. Population models for reserve design: A retrospective and prospective synthesis. *Ecological Applications* 13: S47-64.

2002

15. **Gerber, L.R.** and L.T. Hatch. 2002. Are we recovering? An evaluation of recovery criteria under the U.S. Endangered Species Act. *Ecological Applications* 12(3): 668-673.
14. *Schultz, C* and **L.R. Gerber**. 2002. Are Endangered Species Act recovery plans on the road to recovery? *Ecological Applications* 12(3): 641-647.
13. **Gerber, L.R.**, P.M. Kareiva and *J. Bascompte*. 2002. The interplay of life history attributes and fishing pressure in evaluating efficacy of marine reserves. *Biological Conservation* 106:11-18.
12. Lafferty, K. and **L.R. Gerber**. 2002. Good medicine for conservation biology: The intersection of epidemiology and conservation theory. *Conservation Biology* 16(3):1-12.

2001

11. **Gerber, L.R.**, and G.R. VanBlaricom. 2001. Implications of three viability models for the conservation status of the Western Population of Steller Sea Lions (*Eumetopias jubatus*). *Biological Conservation* 102(3):261-269.
10. **Gerber, L.R.** and *C. Schultz*. 2001. Authorship and the use of science in Endangered Species Act Recovery Plans. *Conservation Biology* 15(5):1308-1314.

9. **Gerber, L.R.** 2001. Conservation biology of cetaceans in marine communities of Baja California: Science or Advocacy? *Global Ecology and Biogeography* 10(3) 335-336.
8. **Gerber, L.R.** and R. Hilborn. 2001. Estimating the frequency of catastrophic events and recovery from low densities: Examples from populations of otariids. *Mammal Review* 31(2): 131-150.

2000

7. **Gerber, L.R.** 2000. Science and Sentimentality. *American Scientist* 88(6):477-478.
6. **Gerber, L.R.**, S.L. Perry and D.P. DeMaster. 2000. Measuring success in conservation. *American Scientist* 88(4):316-324.

1999

5. **Gerber, L.R.** and D.P. DeMaster. 1999. An approach to Endangered Species Act classification of long-lived vertebrates: A case Study of North Pacific Humpback Whales. *Conservation Biology* 13(5):1203-1214.
4. **Gerber, L.R.**, D.P. DeMaster and P.M. Kareiva. 1999. Gray whales illustrate the value of monitoring data in implementing the Endangered Species Act. *Conservation Biology* 13(5):1215-1219.
3. **Gerber, L.R.**, W. Wooster, D.P. DeMaster and G.R. VanBlaricom. 1999. Marine mammals: New objectives in U.S. fishery management. *Reviews in Fishery Science* 7(1):23-28.

1993-8

2. **Gerber, L.R.** 1998. Seeking a rational approach to setting conservation priorities for marine mammals. *Integrative Biology* 1:212-221.
1. Norse, E.N., and **L.R. Gerber**. 1993. A Global Strategy for Preserving Biological Diversity in the Sea. *Diversity* 9(3):40-44.

Encyclopedia Articles, Book Chapters and Technical Reports

22. M. Cisneros-Machos and **L.R. Gerber**. *In Press*. Guiding principles for green economic development in the marine environment: Insights from small-scale fisheries. In: Gasparatos and Willis, *Biodiversity in the Green Economy*, Routledge.
21. Dee, L. and **L.R. Gerber**. 2012. Applications of Decision Theory to Conservation Planning and Management. *Nature Education Knowledge* 3(3):11
20. Hernandez, C. and **L.R. Gerber**. 2012. Sea lions. *World Book Encyclopedia*. World Book.
19. VanBlaricom, G.R., **L.R. Gerber**, and R.L. Brownell, Jr. *In Press*. The Past, Present and Future of Marine Mammals. In: S.A. Levin (editor). *Encyclopedia of Biodiversity*, Volume 4. Academic Press, San Diego.
18. **Gerber, L. R.**, T. N. Gancos, and B. Halpern. 2012. Marine reserves and ecosystem-based management: Nested approaches for marine conservation. *In* A. Hastings and L. Gross, editors. *Sourcebook in Theoretical Ecology*. University of California Press.
17. **Gerber, L.R.** 2011. What is conservation biology? *Nature Education Knowledge* 1(10):14.
16. **Gerber, L.R.** and M. Gonzalez-Suarez. 2011. Population viability analysis: Origins and Contributions. *Nature Education Knowledge* 1(11):15
15. Morissette, L., J.L. Melgo, K. Kaschner and **L.R. Gerber**. 2009. Modelling the Trophic Role of Marine Mammals in Tropical Areas: Data requirements, uncertainty, and validation. *UBC Fisheries Center Research Reports* 17(2) 120 pp.
14. **D'Agrosa, C.**, **L.R. Gerber**, E. Sala, J. Wielgus, and F. Ballantyne IV. 2007. Navigating Uncertain Seas: Adaptive monitoring and management of Marine Protected Areas. 32 pp.
13. Szteren, D., D. Aurioles and **L.R. Gerber**. 2006. Population status and trends of the California sea lion (*Zalophus californianus californianus*) in the Gulf of California, México. In: Trites, A., S. Atkinson, D. DeMaster, L. Fritz, T. Gelatt, L. Rea, and K. Wynne (Eds.), *Sea Lions of the World: Conservation and Research in the 21st Century*. Alaska Sea Grant College Program, University of Alaska Fairbanks.

12. **Gerber, L.R.** 2004. Biological uncertainty and extinction risk for Steller sea lions (*Eumetopias jubatus*) In: R.A. Akcakaya (Ed.), Developing models for conservation and management using RAMAS GIS. Island Press, Washington, DC.
11. Sabo, J.S. and **L.R. Gerber**. 2001. Trophic Ecology. In: McGraw-Hill Encyclopedia of Science and Technology, McGraw-Hill Book Co., New York.
10. Andelman, S.J., S. Beissinger, J.F. Cochrane, **L.R. Gerber**, P.Gomez-Priego, C. Groves, J. Haufler, R. Holthausen, D. Lee, L. Maguire, B. Noon, K. Ralls, H. Regan. 2001. Scientific standards for conducting viability assessments under the National Forest Management Act: Report and recommendations of the NCEAS working group. Available upon request from the National Center for Ecological Analysis and Synthesis.
9. VanBlaricom, G.R., **L.R. Gerber**, and R.L. Brownell, Jr. 2000. Extinctions of marine mammals. Pages 37-69 In: S.A. Levin (editor). Encyclopedia of Biodiversity, Volume 4. Academic Press, San Diego.
8. **Gerber, L.R.** 1999. Marine Conservation and Marine Reserves In: McGraw-Hill Encyclopedia of Science and Technology, McGraw-Hill Book Co., New York, ISBN 0-07-052771-7.
7. Morris, W., D. Doak, M. Groom, P. Kareiva, J. Fieberg, **L.R. Gerber**, P. Murphy, and D. Thomson. 1999. A practical handbook for population viability analysis. The Nature Conservancy, ISBN: 0-9624590-4-6. 133 pp.
6. **Gerber, L.R.** 1999. Scientific uncertainty and sentimentality: Extinctions & protective legislation of marine mammals In: International Cooperation in Science and Technology. Sigma Xi, The Scientific Research Society, Inc. ISBN: 0-914446-13-4.
5. **Gerber, L.R.** and G.R. VanBlaricom. 1997. Fishery conflicts involving sea otters (*Enhydra Lutris*) in Washington state waters. Report to the U.S. Marine Mammal Commission. 107 pp.
4. **Gerber, L.R.** and D.P. DeMaster. 1997. Endangered Species Act classification criteria for North Pacific humpback whales In: P.S. Hill and D.P. DeMaster, Marine Mammal Protection Act and Endangered Species Act Implementation Program 1996. AFSC Processed Report 97-10, US Department of Commerce.

ACADEMIC AWARDS, FELLOWSHIPS AND HONORS

- 2014 Elected to Ecological Society of America's Board of Governors (Member-at-large)
- 2011 Nominated for NOAA Federal Advisory Committee on Marine Protected Areas
- 2011 Aldo Leopold Leadership Fellow
- 2010 Distinguished Visiting Associate Professor, UC Santa Barbara
- 2009 Significant contribution of women in science, research showcased in interactive exhibit *Women hold up half the sky*, Mills College
- 2008 Ecological Society of America's *Rising Star in Ecology*
- 2007 ASU President's Award, Promotion and Tenure Faculty Exemplar, Arizona State University
- 2006 ASU President's Medal for Social Embeddedness, K-12 Environmental Education Program
- 2004 NSF Early Career Investigator Award
- 2003 U.S. Geological Survey toward Best Practices in Biocomplexity and Conservation Award, National Biological Information Infrastructure
- 1998 Outstanding Doctoral Student Performance, Cooperative Fish and Wildlife Research Unit

RECENT BROADER IMPACTS OF SCIENCE

Media appearances, podcasts

- 2013 STEM Journals: Seafood health and sustainability
<http://www.cox7.com/healthy-choices>
- 2012 Beyond the Frontier: A new way to see seafood: Linking sustainability and public health
<http://www.frontiersinecology.org/beyond/>
- 2012 Generation Anthropocene: Marine ecosystem conservation and entrenched ideologies
<http://www.stanford.edu/group/anthropocene/cgi-bin/wordpress/?p=833>
- 2012 RadioLIVE New Zealand: Whales for sale

- http://gerberlab.faculty.asu.edu/wordpress/wp-content/uploads/2011/10/coleman_gerber-120113.mp3
- 2011 The Bren School of Environmental Science and Management, UCSB: Of whales, fish and sanctuaries
<http://www.youtube.com/watch?v=OwJE9V215qg>
- 2009 The Science Show: Whales not to blame for fish depletion
<http://www.abc.net.au/radionational/programs/scienceshow/whales-not-to-blame-for-fish-depletion/3158774>
- 2009 Science Studio: Of Whales, Fish and Men: Managing Marine Reserves
http://sols.asu.edu/podcasts/mp3_files/science_studio_vol_022.mp3

Recent media coverage

- 2014 Erik Stockstad. Psst. Wanna buy a whale. Science.
<http://news.sciencemag.org/economics/2014/01/psst.-wanna-buy-whale>
- 2013 How economics can save the whales. Bloomberg.
<http://www.bloomberg.com/news/2013-08-22/how-economics-can-save-the-whales.html>
- 2012 Eilperin, J. Researchers propose putting a price on whales. The Washington Post.
http://www.washingtonpost.com/national/health-science/researchers-propose-putting-a-price-on-whales/2012/01/10/gIQAHSH8qP_story.html
- 2012 Editors. Good whale hunting. The Economist.
<http://www.economist.com/blogs/babbage/2012/03/commercial-whaling>
- 2012 Erik Stokstad. Putting a price on whales. Science.
<http://news.sciencemag.org/scienceinsider/2012/01/researchers-propose-putting-a.html>
- 2012 Editors. Whales for Share. Nature.
<http://www.nature.com/nature/journal/v481/n7380/full/481114a.html>
- 2011 Jones, N. Seals slide towards extinction in Hawaiian reserve. Nature
<http://www.nature.com/news/2011/120911/full/news.2011.522.html>
- 2011 Mosher, J. Sea lions surprise scientists by adoption orphaned pups. Wired Science.
<http://www.wired.com/wiredscience/2010/11/sea-lion-adoption/>
- 2009 Williams, R. Whales not to blame for fish depletion. ABC News.
<http://www.abc.net.au/rn/scienceshow/stories/2009/2497241.htm>
- 2009 Walsh, B. Will killing whales save the world's Fisheries? Time Magazine
<http://www.time.com/time/health/article/0,8599,1880128,00.html>
- 2005 Dye, Lee. The dilemma of Delisting Species. ABC News.
<http://abcnews.go.com/Technology/story?id=120117&page=1>
- 2005 Norris, Scott. How much data is enough? Conservation Magazine
(<http://www.conservationmagazine.org/2008/07/how-much-data-is-enough/>)

Other recent engagement

- 2013 Blog in *Nature's soapboxscience*, Unclogging institutional conduits between research and outreach <http://blogs.nature.com/soapboxscience/2013/05/24>
- 2012 Op Ed in *Pacific Standard*: Can monk seals find a birth on Noah's Ark?
<http://www.psmag.com/environment/can-monk-seals-find-a-berth-on-noahs-ark-43788/>
- 2012 Leopold Fellows' letter to California's Governor Jerry Brown
http://leopoldleadership.stanford.edu/sites/default/files/Gov_Brown_letter-final.pdf
- 2012 Seafood sustainability research featured in *Martha Stewart Magazine*
www.wholeliving.com
- 2012 Interview with *Double X Science*: Leah Gerber, conservation biologist and lover of sushi,
<http://www.doublexscience.org/>
- 2012 Evening speaker to *Spirit of the Senses*, a local art, science and cultural salon group
www.spiritofthesenses.org
- 2012 Partnered with Slow Food and National Geographic to create consumer tools for seafood choice

http://www.slowfood.com/slowfish/pagine/eng/news/dettaglio_news.lasso?-idn=74
<http://channel.nationalgeographic.com/channel/wicked-tuna/bluefin-tuna/interactives/seafood-decision-guide/>

- 2012 Organized Leopold Fellows Series in *The Atlantic*
<http://www.theatlantic.com/health/category/nine-and-a-half-questions>

TEACHING

- 2012- Arizona State University: Environmental leadership and communication
2011 Arizona State University: Conservation Biology and Ecological Sustainability
2011 UC Santa Barbara: Conservation Planning
2010 UC Santa Barbara: Environmental Modelling
2007 Arizona State University: Principles of Sustainability (co-instructed)
2006-8 Arizona State University: Marine Mammal Behavior and Conservation
2002- Arizona State University: Quantitative Conservation Biology
2003 Arizona State University: Applications of Behavioral Ecology to Conservation Biology
2003- Arizona State University: Marine Conservation Biology
2002 University of Oregon: Marine Protected Areas (field course at marine lab)
2002 Prescott College: Marine Mammal Biology and Conservation (field course in Mexico)
2000 University of California at Santa Barbara: Problem-Solving in Conservation Biology
1999 University of California at Santa Barbara: Graduate Seminar on ESA Recovery Plans
1998 The Nature Conservancy: Population Viability Analysis Workshop
1998 University of Washington, Friday Harbor Laboratories: Marine Conservation Biology
1993 University of Washington: Ecology and the Biosphere

SERVICE

National

- 2013 Editorial Board, *Conservation Biology*
2012 Antarctic Ecosystems Review Panel, NSF
2012 Development Committee, Ecological Society of America
2012 Expert panel, NMFS shark predation management, Center for Independent Experts
2011 Chair, Review Panel, Hawaiian monk seal translocation plan, NMFS
2011- Editorial Board, *ISRN Ecology*
2007- Editorial Board, *Conservation Letters*
2007 Ocean Science Review Panel, NSF
2006 Advisory Panel for NSF CAREER program
2003-8 Editorial Board, *Conservation Biology*
2004-9 Editorial Board, *Endangered Species Research*
2002- Recovery Team Member, White Abalone Recovery Team
(Plan co-author <http://www.nmfs.noaa.gov/pr/pdfs/recovery/whiteabalone.pdf>)
2002- Recovery Team Member, Mount Graham Red Squirrel Recovery Team (Plan co-author <http://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=A090>)
2002 Reviewer, President's Panel on Ocean Exploration, NOAA
2002 Advisory Panel Member, Abalone Recovery and Management Team
2000-2 Policy Committee, Society for Conservation Biology Board of Governors
2002-5 Science Chair, Marine Section of the Society for Conservation Biology
1996-8 Member-at-Large, Society for Marine Mammalogy Board of Governors
2003- Reviewer, Ecology and Biological Oceanography Panels, National Science Foundation

Regional and ASU

- 2014 Director, Center for Biodiversity Outcomes, ASU
2012- Co-organizer, Hugh Hanson Ecology Seminar Series, ASU
2012- Director, Environmental Leadership and Communications Certificate, ASU

2011- Research and Training Initiatives Committee, School of Life Sciences, ASU
2011- Advisory Board for the Ecosystem Conservation and Resilience Initiative, ASU
2007-9 Personnel committee, School of Life Sciences, ASU
2007-9 Undergraduate Programs Committee, School of Sustainability, ASU
2006-9 Review committee, School of Life Sciences Undergraduate Research Program, ASU
2005- Honors Disciplinary Faculty, Barrett Honors College, ASU
2004-7 Research Coordination Network for the Colorado Delta Region, NSF
2002- Co-director, Undergraduate Conservation Biology Program, Arizona State University
2003-6 Undergraduate Programs Committee, School of Life Sciences, Arizona State University

STUDENTS

Postdoctoral Researchers

Michael Westphal (Fall 2003-Fall 2004, co-advised with E. Sala, currently AAAS Fellow)
Ford Ballantyne (Fall 2003-Fall 2005, co-advised with E. Sala, currently Asst Prof at Kansas)
Jeffrey Wielgus (Fall 2004-Fall 2006, currently with World Resources Institute)
Julie Young (Spring 2006-Fall 2007, currently with Wildlife Conservation Society)
Lyne Morrissette (Fall 2007-Spring 2009, currently postdoc at U. Guelph)
Haridas Chirakkal Variam (Fall 2007-Fall 2010, currently postdoc at U. Nebraska)
Victoria Baaker (Smith Fellow in residence, Fall 2008-Fall 2010; currently Asst Prof at MSU)
Caterina D'Agrosa (Fall 2006-Fall 2010, currently at Le Tutor Language Schools)
José Daniel Anadón (Fall 2010-current)

Doctoral Students - primary advisor

Manuela Gonzalez-Suarez (Fall 2003-Fall 2007, Currently Marie Curie Postdoc in Sevilla, Spain)
Jared Underwood (Fall 2004-Fall 2007, Currently Director of Hawaii National Wildlife Refuge)
Claudia Camacho-Hernandez (Fall 2004-Spring 2009, Currently professor at CICIMAR in La Paz, MX)
Jesse Senko (Fall 2011-current)
Maria Machos Cisneros (Fall 2011-current)
Eric Johnson (Fall 2012-current)
Yaiyr Astudillo-Scalia (Fall 2013-current)
Ariana LaPorte (Fall 2013-current)

Doctoral Students - committee member

Alan Giese (Fall 2002-Fall 2005)
Kirsten Rowell (University of Arizona, Fall 2002-Spring 2006)
Richard Fredrickson (Fall 1999-Fall 2007)
Benjamin Campbell (Fall 2004-Fall 2007)
Chien Lai (Fall 2000-current)
Sarah Boyle (Fall 2001-current)
Mark Neff (Fall 2006-Fall 2008)
Jason Schooley (Fall 2006-Fall 2007)
Angela Picco (Fall 2004-Fall 2008)
Verma Miera (Fall 2002-current)
Diana Szern (University of Baja California Sur, Mexico, Fall 2004-Fall 2006)
TaShana Taylor (University of Arizona, Fall 2003-Fall 2008)
Marie Fujitani (Fall 2010-current)
Biao Huang (Fall 2010-current)
Aireona Rashke (Fall 2012-current)

Masters Students – primary advisor

Jennifer Rupnow (Fall 2003-Spring 2007)
Sage Tezak (Spring 2006-Spring 2009, Currently with NOAA Marine Sanctuaries)

Ramona Flatz (Spring 2007-Spring 2010, Currently Research Technician at Willamette College)
Zach Hughes (Fall 2007-Spring 2010, Currently with NOAA Fisheries)
Marie Fujitani (Fall 2008-currently PhD student at ASU)
Robert Wildermuth (Fall 2010-Fall 2012, currently Research Technician at ASU)
Tara Gancos (Fall 2010-currently PhD student at U Georgia)
Melanie Sturm (Fall 2013-current)
Caiti Troyer (Fall 2013-current)

Recent Undergraduate Honor's Students – primary advisor

Kate Buenau (Honors student, graduated Spring 2003, currently PhD candidate at UC Santa Barbara)
Jennifer Laliberte (Honors student, graduated Spring 2004, currently MS Student at Duke University)
Lauren Horwitz (graduated Spring 2005, currently PhD student at San Diego State University)
Pam Marcum (graduated Spring 2005, currently high school science instructor)
Cristen Jester (Graduated Spring 2004, currently employed with the Bureau of Land Management)
Andrew Keller (Fall 2005, currently environmental consultant in San Diego, CA)
Cindi Girardin (Graduated Spring 2005, unknown)
Ashley Robota (School of Life Sciences Undergraduate Research Assistant, Fall 2004-Fall 2005)
Tiffany Lewis (Fall 2005-currently PhD student at U North Carolina)
Matthew Petelle (Fall 2006-currently PhD student at UCLA)
Michael Britt (Spring 2005-current with AZ Fish and Game)
Kathy Robertson (SoLS Research Assistant, Spring 2005, unknown)
David Green (SoLS Undergraduate Research Assistant, Fall 2004-200, PhD student at U Michigan)
David Jacobs (SoLS Undergraduate Research Assistant, Fall 2006-2008, currently law student at ASU)
Allison Hoynes O'Connor (SoLS Research Assistant, Spring 2005, unknown)
Aaron Immel (SoLS Research Assistant, 2005-2007, unknown)
Alissa Rickborn (SoLS Research Assistant, 2005-2008, unknown)
Kevin McGinnis ((SoLS Research Assistant, Spring 2005, unknown)
Dakota Lippincott (SoLS Research Assistant, Spring 2007, unknown)
Easton White (SoLS Undergraduate Research Assistant, Fall 2006-2008, currently Fullbright Fellow)
Andrea Nozigilia (SoLS Undergraduate Research Assistant, Fall 2013-current)
Sarah Geren (SoLS Undergraduate Research Assistant, Fall 2013-current)
Dee Sagawae (SoLS Undergraduate Research Assistant, Fall 2013-current)

RECENT PRESENTATIONS

Symposia I organized or co-organized

- 2013 Marine mammal management models working group leader, NCEAS
- 2013 “Escaping the Ivory tower”, Symposium at annual AAAS meeting, Boston, Massachusetts.
- 2003 Comparing Marine and Terrestrial Ecosystems: Implications for Conservation Theory and Practice, 17th Annual Society for Conservation Biology Meeting in Duluth, Minnesota
- 2004 Application of Top Predator Distribution to Design & Efficacy of Marine Reserves, Symposium at the 15th Annual Society for Conservation Biology Meeting (with Dr. Sascha Hooker, University of Aberdeen)
- 2001 Sea otter demographic modeling working group leader, NCEAS

Invited Research Seminars

- 2013 “Red de reservas marinas en Region de las Grandes Islas”, Guaymas, Sonora, MX
- 2012 University of Hawaii, Manoa
- 2011 Scripps Institution of Oceanography, La Jolla, California
- 2010 National Center for Ecological Analysis and Synthesis, Santa Barbara, California
- 2010 University of California, Santa Barbara, California
- 2009 Plenary speaker at INTECOL in Queensland, Australia
- 2008 University of Oregon (Marine Lab), Charleston, Oregon

- 2007 University of Washington, Seattle, Washington
- 2007 Scripps Institution of Oceanography, La Jolla, California
- 2004 Yale University, New Haven, Connecticut
- 2004 University of Queensland, Australia
- 2003 University of Chicago, Chicago, Illinois
- 2005 University of Arizona, Tucson, Arizona
- 2002 University of Oregon (Marine Lab), Charleston, Oregon
- 2002 Southern Illinois University, Carbondale, Illinois
- 2001 Washington State University, Pullman, Washington
- 2001 University of California, Davis, California

Invited Symposia

- 2013 “Integrating theory and data in marine science”, Plenary Speaker at Western Society of Naturalists Meeting, Monterey, California.
- 2011 “The Ecological Importance of Larval Dispersal”, Symposium at the International Coral Reef Meeting, Cairns, Australia.
- 2010 “All You Need to Know is...” : Advice from Theorists on Managing Ecosystems in a Changing Climate, Symposium at the 2010 Ecological Society of American meeting in Pittsburg, PA
- 2006 The Nature Conservancy Symposium on Conservation Science in Practice: Linking Science/Practice to Global Conservation, Tucson, Arizona
- 2006 “Speed Presentation” Session at Society for Conservation Biology meeting in San Jose, California.
- 2005 “Marine Ecosystem-based Management: Lessons from the Land”, Symposium at the 2005 Annual Meeting of the American Association for the Advancement of Science, Washington DC.
- 2004 "Disease Ecology and Declining Populations: Analyzing and Predicting Disease in Sensitive Populations", Symposium at Ecological Society of American meeting in Portland, Oregon.
- 2006 “Conservation of Wide Ranging Predators” Symposium at Society for Conservation Biology meeting in Duluth, Minnesota
- 2003 “Building on Beverton’s Legacy: Life History Variation and Fisheries Management” Symposium at American Fisheries Society Meeting in Quebec City, Canada
- 2003 NSF/NIH Symposium on Accelerating Mathematical-Biological Linkages, Washington DC
- 2001 Pelagic Predators and Processes workshop, Santa Cruz, California
- 2000 “Best Available Science in Marine Conservation” Workshop, Pew Charitable Trusts, Hawaii
- 1999 Sigma Xi Forum in Vancouver, British Columbia, Canada