

Marissa L. Baskett

- CONTACT INFORMATION** Department of Environmental Science and Policy *Voice:* (530) 752-1579
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Website: <http://www.des.ucdavis.edu/faculty/baskett>
- RESEARCH INTERESTS** My research connects theoretical evolutionary ecology and conservation biology: I use mathematical models and simulations to investigate how anthropogenic impacts cause rapid evolution and community change. While researching a wide range of topics from life history evolution to ecosystem resilience, I develop theory relevant to conservation management decisions.
- EDUCATION** **Princeton University**, Princeton, New Jersey USA
Ph.D., Ecology and Evolutionary Biology, September 2006
Dissertation Topic: Marine Reserve Design and Life History Variation
Advisor: Simon A. Levin
M.A., Ecology and Evolutionary Biology, November 2003
Stanford University, Stanford, California USA
B.S., Biological Sciences (minor: Mathematics) with Distinction, June, 2001
Honors Thesis: A Polygenic Model of Genomic Imprinting Evolution
Advisor: Marcus W. Feldman
- PROFESSIONAL EXPERIENCE** **University of California, Davis**
Assistant Professor, Department of Environmental Science and Policy 2008 - present
University of California, Santa Barbara
Postdoctoral Associate, National Center for Ecological Analysis and Synthesis 2006 - 2008
- TEACHING EXPERIENCE** **Ecology and Evolutionary Biology, Princeton University**, Princeton, NJ
Teaching Assistant, Conservation Biology September, 2004 - January, 2005
Teaching Assistant, Theoretical Ecology February, 2004 - May, 2004
- PUBLICATIONS** **M.L. Baskett**, S.D. Gaines, and R.M. Nisbet. Symbiont diversity may help coral reefs survive moderate climate change. In press, *Ecological Applications*.
M.L. Baskett and B.S. Halpern. Marine Ecosystem Services. In revision *in* S.A. Levin, ed. Guide to Ecology, Princeton University Press, Princeton, NJ.
M.L. Baskett. 2007. Simple fisheries and marine reserve models of interacting species: an overview and example with facilitation. *CalCOFI Reports* 48:71-81.
M.L. Baskett, J.S. Weitz, and S.A. Levin. 2007. The evolution of dispersal in reserve networks. *American Naturalist* 170(1):5978.
M.L. Baskett, F. Micheli, and S.A. Levin. 2007. Designing marine reserves for interacting species: Insights from theory. *Biological Conservation* 137(2):163-179.
M.L. Baskett. 2006. Prey size refugia and trophic cascades in marine reserves. *Marine Ecology Progress Series* 328:285-293.
M.L. Baskett, M. Yoklavich, and M.S. Love. 2006. Predation, competition, and the recovery of overexploited fish stocks in marine reserves. *Canadian Journal of Fisheries and Aquatic Sciences* 63(6):1214-1229.
M.L. Baskett, S.A. Levin, S.D. Gaines, and J. Dushoff. 2005. Marine reserve design and the

evolution of size at maturation in harvested fish. *Ecological Applications* 15(3):882–901.

L. Jin, **M.L. Baskett**, L.L. Cavalli-Sforza, L.A. Zhivotovsky, M.W. Feldman and N.A. Rosenberg. 2000. Microsatellite evolution in modern humans: a comparison of two data sets from the same populations. *Annals of Human Genetics* 64:117–134.

SCHOLARLY
PRESENTATIONS

- 2008 International Symposium on the Effects of Climate Change on the World's Oceans, Gijon, Spain*
Ecology and Evolutionary Biology, Brown University, Providence, RI*
Bodega Marine Laboratory, University of California, Davis*
- 2007 Western Society of Naturalists Annual Meeting, Ventura, CA
Dissertation Initiative for the Advancement of Climate Change Research Symposium, HI
American Fisheries Society Annual Meeting, San Francisco, CA*
Ecological Society of America Annual Meeting, San Jose, CA
Evolutionary Change in Human-altered Environments: An International Summit, University of California, Los Angeles
- 2006 College of Agricultural and Environmental Sciences, University of California, Davis*
California Cooperative Oceanic Fisheries Investigations Annual Conference, Pacific Grove, CA*
Western Society of Naturalists Annual Meeting, Redmond, WA
Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara*
Ecological Society of America Annual Meeting, Memphis, TN
Section of Evolution and Ecology, University of California, Davis*
Western Groundfish Conference, Newport, OR
- 2005 Western Society of Naturalists Annual Meeting, Seaside, CA
- 2004 Managing for Resilience: An Integrated Approach to Coastal Marine Science and Conservation,
University of Washington Friday Harbor Laboratories, WA*
Ecological Society of America Annual Meeting, Portland, OR
Ecological and Environmental Economics workshop on Spatial Aspects of Reserve Design
Optimization under Economic Constraints, Abdus Salam International Centre for Theoretical
Physics, Trieste, Italy*
- 2003 Burroughs Wellcome Fund Interfaces in Science Fellows' Retreat, Coronado Island, San Diego,
CA*

*Invited

AWARDS AND
GRANTS

- National Science Foundation Graduate Research Fellowship 2003-2006
Burroughs Wellcome Program in Biological Dynamics Training Grant Recipient 2001-2006

PROFESSIONAL
MEMBERSHIPS

- Ecological Society of America
Western Society of Naturalists

REFeree
ACTIVITIES

Aquatic Living Resources, Canadian Journal of Fisheries and Aquatic Sciences, Conservation Biology, Ecology, Ecology Letters, Fisheries Research, Oikos, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B: Biological Sciences, Theoretical Ecology

COMMUNITY
SERVICE

- Volunteer, *Kids Do Ecology* 2007-2008
Member, *Greening Princeton* 2002-2006
Participant, *Scholars in the Schools* 2003-2004
Volunteer, *Students for Environmental Education* 1998-2001