

Heather M. Leslie, Ph.D.

Dept. of Ecology and Evolutionary Biology & Center for Environmental Studies
Brown University, Providence, RI 02912
Tel: (401) 863-3449 / Email: Heather_Leslie@brown.edu

RESEARCH INTERESTS

Marine population and community ecology; marine conservation science; marine reserve design and conservation planning; ecosystem-based management; and coupled social-ecological marine systems

EDUCATION

2004	PhD in Zoology	Oregon State University
1996	AB cum laude in Biology	Harvard University

PROFESSIONAL EXPERIENCE

July 2007 on	Sharpe Assistant Professor of Environmental Studies and Biology, Brown University
2007-2008	Visiting Research Collaborator, Princeton University
2006-2007	Associate Research Scholar, Princeton University
2004-2005	Postdoctoral Research Fellow, Princeton University
1998-2004	Graduate Research Assistant, Oregon State University
1998	Administrative Assistant, Darling Marine Center, University of Maine
1997-1998	AmeriCorps Volunteer Leader, Planning Alliance of the Damariscotta River Estuary
1997-1998	Research Assistant, Manomet Center for Conservation Sciences
1996-1997	Harvard University Trustman Fellow
1996	Student Fellow, Woods Hole Oceanographic Institution (WHOI), Marine Policy Center
1995	Fellow, NSF Research Experiences for Undergraduates (REU) Program, Oregon State U.
1993-1994	Summer Intern, Massachusetts Audubon Society's Coastal Waterbird Program

SELECTED GRANTS, FELLOWSHIPS & SCHOLARSHIPS

2006-2008	Sea of Cortés Ecosystem-Based Management Project (\$244,000) Funded by the David and Lucile Packard Foundation (S. Levin, Lead PI and HL, co-PI)
2004-2008	McDonnell Postdoctoral Fellowship, Santa Fe Institute (\$85,000)
2004-2005	Marine Resilience Assessment Project (\$100,000) Funded by the David and Lucile Packard Foundation (A. Kinzig, Lead PI)
1999-2003	Minigrant for marine reserve research, (\$10,000) From Environmental Defense [HL (Co-PI) co-wrote grant with B. Menge, J. Lubchenco]
2004	Travel Grant, 2004 Society of Conservation Biology Meeting
2003	Travel Award, 2003 Ecological Society of America Meeting
2002	University Club Foundation Fellowship, Portland, Oregon (\$5,000)
2002-2004	Markham Research Award, OSU Hatfield Marine Science Center
2002-2003	Oregon Sports Lottery Scholarship, Oregon State University
1999-2002	Oregon Laurels Scholarship, Oregon State University
2000	Scholarship, Friday Harbor Laboratories, University of Washington
1999	Scholarship, Hopkins Marine Laboratory, Stanford University
1999-2002	Graduate Research Fellowship, National Science Foundation (\$75,000)
1996-1997	Benjamin A. Trustman Traveling Fellowship, Harvard University (\$10,000)
1996	Certificate of Distinction in Undergraduate Teaching, Harvard University

PUBLICATIONS

Leslie, H. M. and K. L. McLeod. Confronting the challenges of implementing marine ecosystem-based management. In press, *Frontiers in Ecology and the Environment*.

T.P. Hughes, L. Gunderson, C. Folke, A. Baird, D. Bellwood, F. Berkes, B. Crona, A. Helfgott, **H. Leslie**, J. Norberg, M. Nyström, P. Olsson, H. Österblom, M. Scheffer, H. Schuttenberg, R.S. Steneck, M. Tengö, M. Troell, B. Walker, J. Wilson, B. Worm. Adaptive Management of the Great Barrier Reef and the Grand Canyon World Heritage Areas. In press, *Ambio*.

Satake, A., **H. M. Leslie**, Y. Iwasa, and S. A. Levin. 2007. Coupled ecological-social dynamics in a forested landscape: spatial interactions and information flow. *Journal of Theoretical Biology* 246: 695-707.

Berkes, B., T. P. Hughes, R. S. Steneck, J. A. Wilson, D. R. Bellwood, B. Crona, C. Folke, L. H. Gunderson, **H. M. Leslie**, J. Norberg, M. Nyström, P. Olsson, H. Österblom, M. Scheffer, B. Worm. 2006. Globalization, roving bandits and marine resources. *Science* 311:1557-58.

Leslie, H. M. 2005. A synthesis of marine conservation planning approaches. *Cons. Biol.* 19(6): 1701-1713.

Leslie, H. M., E. N. Breck, F. Chan, B. A. Menge, and J. Lubchenco. 2005. Barnacle reproductive hotspots linked to nearshore ocean conditions. *Proceedings of the National Academy of Sciences* 102(30):10534-39.

Leslie, H. M. 2005. Positive intraspecific effects trump negative effects in high-density barnacle aggregations. *Ecology* 86(10):2716-2725.

Giller, P., H. Hillebrand, U G. Berninger, M. Gessner, S. Hawkins, P. Inchausti, C. Inglis, **H. Leslie**, B. Malmqvist, M. Monaghan, P. Morin, G. O'Mullan. 2004. Biodiversity effects on ecosystem functioning: emerging issues and their experimental test in aquatic communities. *Oikos* 104(3): 423-436.

Leslie, H., M. Ruckelshaus, I. R. Ball, S. Andelman, and H. P. Possingham. 2003. Using siting algorithms in the design of marine reserve networks. *Ecological Applications* 13(1): S185-S198.

Airamé, S., J. E. Dugan, K. D. Lafferty, **H. Leslie**, D. A. McArdle, and R. R. Warner. 2003. Applying ecological criteria to marine reserve design: A case study from the California Channel Islands. *Ecol. Appl.* 13(1): S170-S184.

Menge, B. A., J. Lubchenco, M. E. S. Bracken, F. Chan, M. M. Foley, T. L. Freidenburg, S. D. Gaines, G. Hudson, C. Krenz, **H. Leslie**, D. N. L. Menge, R. Russell, and M. S. Webster. 2003. Coastal oceanography sets the pace of rocky intertidal community dynamics. *PNAS* 100(21):12229-12234.

Palumbi, S. R., S.D. Gaines, **H. Leslie**, and R. R. Warner. 2003. New wave: high-tech tools to help marine reserve research. *Frontiers in Ecology and the Environment* 1(2): 73-79.

Roberts, C. M., S. J. Andelman, G. M. Branch, R. Bustamante, J. C. Castilla, J. E. Dugan, B. Halpern, K. D. Lafferty, **H. Leslie**, J. Lubchenco, D. A. McArdle, H. P. Possingham, M. H. Ruckelshaus, and R. R. Warner. 2003. Ecological criteria for evaluating candidate sites for marine reserves. *Ecol. Appl.* 13(1): S199-S214.

Roberts, C. M., G. Branch, R. H. Bustamante, J. C. Castilla, J. Dugan, B. Halpern, K. D. Lafferty, **H. Leslie**, J. Lubchenco, D. McArdle, M. Ruckelshaus, and R. R. Wagner. 2003. Application of ecological criteria in selecting marine reserves and developing reserve networks. *Ecol. Appl.* 13(1): S215-S228.

ESSAYS, REVIEWS, ARTICLES AND PROCEEDINGS

McLeod, K. M. and **H. Leslie**. 2005. Marine Ecosystem-Based Management: Transforming U.S. Ocean Policy. In M. Groom et al. (eds.), *Principles of Conservation Biology* (3rd edition), pp. 476-479.

Leslie, H. 2004. Coastal Marine Conservation: Science and Policy. *The Quarterly Review of Biol.* 79(4): 447.

Simler, B., R. Davis-Born, A. Guerry, **H. Leslie**, and J. Lubchenco. 2002. The Catalogue of Oregon Marine and Coastal Information: Meta-data to inform area-based management. In *Proceedings of 2002 Conference of The Coastal Society*.

Leslie, H. 2001. Coastal Zone Management. In J. Barry and E. G. Frankland (eds.) *International Encyclopedia of Environmental Politics*. Florence, KY: Routledge. p. 94-95.

Leslie, H. 1999. It's too soon to open just-recovering scallop beds. *The Boston Globe*, p. A17 (2/25/99).

Leslie, H. 1997. Coastal wetlands management in Yucatan, Mexico: Nature-based tourism in the Celestún Estuary. In M. C. Miller and J. Cogan (eds.) *Coastal Zone 97 Conference Proceedings*, Vol. 2., Boston, MA: 1997, pp. 938-940.

Leslie, H. 1994. Birds, buggies, and barrier beaches. *Sanctuary*. Lincoln, MA: Massachusetts Audubon Society. pp. 16-17.

MEDIA COVERAGE OF RESEARCH

Fountain, H. 2005. An ideal place to raise a barnacle. *New York Times*, p. D3, July 12, 2005.

Strehlow, A. 2005. Study ties breeding, food levels. *The Oregonian*, p. D10, July 13, 2005.

Moser, J. 2005. Underwater adventures at the 'hotspots' of the sea. *The Summer Barometer*, July 27, 2005.

Environmental News Service. 2005. Barnacle study could influence siting of marine reserves. July 27, 2005. Accessed August 10, 2005 at <http://www.ens-newswire.com/ens/jul2005/2005-07-27-09.asp#anchor7>

TEACHING EXPERIENCE

Fall 2007	Lead Instructor, <i>Marine Conservation Science & Policy</i> , Brown University
2005	Guest Lecturer, <i>Conservation Biology</i> , Princeton University
2005	Guest Lecturer, <i>Population & Community Ecology</i> , Princeton University
2005	Guest Lecturer, <i>Conservation Biology</i> , Brandeis University
2004	Guest Lecturer, <i>Population & Community Ecology</i> , Princeton University
2003	Guest Lecturer, <i>Invertebrate Biology</i> , Oregon State University
2002	Guest Lecturer, <i>Marine Protected Areas</i> , Oregon Inst. of Marine Biology, U. of Oregon
2000-2001	Course Designer, Lecturer, & Teaching Assistant, <i>The Science & Policy of Marine Reserves</i> , Oregon State University
1999-2000	Guest Lecturer & Teaching Assistant, <i>Marine Biology</i> , Oregon State University
1998	Teaching Assistant, <i>Principles of Biology</i> , Oregon State University
1995-1996	Course Assistant, <i>Conservation Biology and Biodiversity</i> , Harvard University

SELECTED INVITED SEMINARS AND SYMPOSIA

- 2007 Chesapeake Biological Laboratory, University of Maryland, Solomons, MD
- 2006 Stony Brook University, Department of Ecology & Evolution, Stony Brook, NY
- 2006 University of Washington, School of Aquatic and Fishery Science, Seattle, WA
- 2006 University of North Carolina at Chapel Hill, Department of Geography, Chapel Hill, NC
- 2006 Brown University, Center for Environmental Studies, Providence, RI
- 2006 University of California at Irvine, Department of Ecology and Evolutionary Biology, Irvine, CA
- 2006 Northeastern University, Department of Biology, Boston, MA
- 2005 Briefing to John H. Marburger III, Science Advisor to the President, Princeton University, NJ
- 2005 Rutgers University, Grad. Program in Ecology and Evolutionary Biology, New Brunswick, NJ
- 2005 University of New Hampshire, Marine Science Program, Durham, NH
- 2005 World Wildlife Fund, Conservation Science Program, Washington, DC
- 2005 Woods Hole Oceanographic Institution, Biology Department, Woods Hole, MA
- 2004 Brown University, Dept. of Ecology & Evolutionary Biology, Providence, RI
- 2004 Society for Conservation Biology Meeting, Symposium co-organizer and speaker, New York
- 2001 AAAS Annual Meeting, Invited symposium speaker, San Francisco, CA
- 2000 Pacific Fishery Management Council, Habitat Advisory Group, Vancouver, WA
- 2000 Oregon Ocean Policy Advisory Council, Hatfield Marine Science Center, Newport, OR

MENTORING

- July 2007 on Prof. Leslie is actively seeking undergraduate and graduate students to join her research group at Brown University.*
- 2002-2004 OSU Honors Thesis co-advisor of Erin Breck (with Professor Bruce Menge)
- 2003 OSU Honors Thesis committee member for Morgan Packard
- 2000-2004 Mentor for 12 undergraduate interns and two high school interns
- 2002 Mentor, Oregon State University's Saturday Academy Mentorship Program

SYNERGISTIC ACTIVITIES

Workshops organized

- 2007 New directions for marine ecosystem-based management, Portland, OR
- 2005 Applying resilience theory to improve ocean management, Princeton University
- 1998 Science and management in the Damariscotta River Estuary, ME

Invited workshop participant

- 2007 Interdisciplinary Research of the Environment, Yale University, New Haven, CT
- 2007 An Integrated, Ecosystem-based Approach to Ocean Management, Durham, NH
- 2006 Climate change, upwelling, fisheries, and coastal communities, Trieste, Italy
- 2005 Implementing Marine Ecosystem-Based Management, Monterey, CA
- 2005 Marine Ecosystems Dynamics Consortium Workshop, Cape Town, South Africa
- 2004 Marine Resilience, Beijer Institute for Ecological Economics, Stockholm, Sweden
- 1998-2000 NCEAS working group on the Science of Marine Reserves, Santa Barbara, CA

University and Community Service

- 2004-2005 Coordinator, Princeton Environmental Institute's Postdoctoral Fellow Forum
- 2005 Judge, New York City Science and Engineering High School Fair, City College of NY
- 2003 Faculty Search Committee, Department of Zoology, Oregon State University
- 2001-2002 President, Graduate Student Association, Dept. of Zoology, Oregon State University
- 2001-2003 Organizing Committee, Biology Graduate Students Symposium

SYNERGISTIC ACTIVITIES (CONTINUED)

Reviewer for

California Sea Grant, Canon National Parks Science Scholars Program for the Americas, Conservation Biology, Ecological Applications, Ecology, Frontiers in Ecology and the Environment, Marine Biology, Proceedings of the National Academy of Sciences, Trends in Ecology and Evolution

PRINCIPAL COLLABORATORS IN THE LAST FOUR YEARS

1. Simon Levin, Princeton University (Postdoc mentor)
2. Jane Lubchenco, Oregon State University (PhD co-advisor)
3. Bruce Menge, Oregon State University (PhD co-advisor)
4. Erin Breck, Oregon State University (undergraduate advisee)
5. Ann Kinzig, Arizona State University
6. Karen McLeod, Oregon State University
7. Akiko Satake, Princeton University
8. Maja Schlüter, Princeton University
9. Exequiel Ezcurra, San Diego Museum of Natural History
10. Francis Chan, Oregon State University