

# Curriculum Vitae for Steven D. Gaines

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Dean  
Bren School of Environmental Science & Management  
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## **Education**

- B.S. University of California, Irvine, 1977; major—Biology; Magna Cum Laude, Phi Beta Kappa, Regents Scholar.
- Ph.D. Oregon State University, 1982; Ecology; advisors: Jane Lubchenco and Bruce Menge.

## **Academic Positions**

- Dean, Bren School of Environmental Science & Management, UC Santa Barbara; 2010 to present
- Director, Marine Science Institute, UC Santa Barbara; 1997 to 2009
- Acting Dean of Science, UC Santa Barbara; 2007 to 2008
- Acting Vice Chancellor for Research, UC Santa Barbara; 2002 to 2005
- Professor, UC Santa Barbara; 1998 to present
- Associate Professor, UC Santa Barbara; 1994-1998.
- Associate Professor, Brown University; 1993-1994.
- Assistant Professor, Brown University; 1987-1993.
- Research Associate, Stanford University; 1986-1987.
- Postdoctoral Fellow, Stanford University, with J. Roughgarden; 1982-1986.

## **Research Interests**

conservation biology, biogeography, sustainable fisheries, climate change, population and community ecology, biostatistics, marine ecology

## **Awards/Special Appointments**

- Editorial Board, *Estuaries* (1990-92)
- Co-chair, Organizing Committee for 20<sup>th</sup> Benthic Marine Ecology Meetings, Newport, RI (1992)
- Editorial Board, *Ecology & Ecological Monographs* (1992-95)

Scientific Advisory Board, GLOBEC program, National Science Foundation  
(1992-95)

Scientific Advisory Board, Southern California Intertidal Monitoring Program  
(1997-98)

Editorial Board, American Naturalist (1998-2001)

OUEVRE Visioning Committee for NSF Biological Oceanography (1998)

University of California, Marine Council (1999 to present)

Scientific Advisory Panel, Channel Islands National Marine Sanctuary (1999 to  
2002)

Curtis and Edith Munson Distinguished Lecturer, Yale University (2002)

Board of Trustees, Conservation Biology Research Institute, Aquarium of the  
Pacific (2001-2002)

Master Planning Team, California Marine Life Protection Act (2001 to 2004)

Executive Committee, Board on Oceans and Atmosphere, NASULGC (2003 to  
2006)

Pew Fellow in Ocean Conservation (2003 to 2006)

Science Advisory Panel, California Marine Life Protection Act (2005 to present)

Advisory Panel, California Ocean Policy (2004)

Advisory Board, Oiled Wildlife Care Network (2003 to present)

Jenner Lecturer, University of North Carolina (2005)

SCERP Lecturer, California State University, Fullerton (2006)

Science Advisory Group, Interagency Ecological Program, CA Dept of Water  
Resources (2006 to present)

Science Advisor, Joint Ocean Commission (2006 to present)

MLPA Baseline Science-Management Panel (2006)

Keynote Speaker, 3<sup>rd</sup> International Biogeography Society Meeting, Tenerife,  
Canary Islands (2007)

Keynote Speaker, Natural England, Towards a Coherent Network of Marine  
Protected Areas (2007)

Keynote Speaker, Marine Protected Areas on the High Seas, Honolulu, Hawai'i  
(2007)

Ocean in Google Earth - MPA Advisor (2007 to 2009)

Bevan Lecturer, University of Washington (2008)

Chair, Science Advisory Panel, California Current Ecosystem Based Management  
(2007-08)

Marine Protected Area Federal Advisory Committee (2008-2011)

Science Advisory Team, California Ocean Protection Council (2008-2010)

Organization for Economic Co-Operation and Development Best Paper Award  
(honorable mention), Nha Trang, Vietnam; with J. Lynham and C. Costello  
(2008)

Editorial Board, Annual Review of Ecology, Evolution, and Systematics  
(2008-2013)

Top Science Study 2008, Costello, Gaines & Lynham (Science), chosen by Editors  
of Nature magazine (2008)

Erskine Fellow, Canterbury University (2009)

America's Climate Choices, National Academy of Science Panel (2009-2010)

Inaugural Marc Hirshman Award for Excellence in Mentoring (2009), chosen by the  
Joint Ocean Commission

Oceans Committee, Environmental Defense Fund Board (2009 to present)

Managing Principal, Communication Partnership for Science and the Sea -  
COMPASS (2009 to present)

Fellow, American Association for the Advancement of Science (2010)

National Science Foundation, Geosciences Advisory Panel (2011 to present)

MARVIVA Advisory Board (2011 to present)

Rare Board of Trustees (2011 to present)

## **Research Funding**

**National Science Foundation**, Causes and Consequences of Variable  
Recruitment in the Acorn Barnacle *Semibalanus balanoides*, 1990-94, with M.  
Bertness -- \$397,492.

**A. W. Mellon Foundation**, The Dynamics of Marine Ecosystems, 1992-96, with M.  
Bertness -- \$300,000.

**National Science Foundation**, Is Variable Retention of Larvae Nearshore a  
General Cause of Variable Recruitment, 1994-97, with M. Bertness -- \$408,796.

**NOAA, Sea Grant**, Dispersal of zebra mussels, 1994-97, with L. Johnson --  
\$19,303.

**Department of Energy, National Institute for Global Environmental Change**,  
Climate Change and Marine Ecosystems: the Integrity of Biogeographic  
Boundaries, 1995-98 -- \$247,000.

**NASA**, Investigations of Coastal Marine Communities as a Means to  
Understanding Effects of Global Climate Change, 1995-98, with R. Sagarin --  
\$66,000

**A. W. Mellon Foundation**, The Dynamics of Marine Ecosystems: Measuring the  
Connectedness of Marine Communities, 1996-99 -- \$300,000

**W. M. Keck Foundation**, The Coastal Research Initiative: New Links Between  
Ocean Physics and Marine Population Dynamics, 1996-98, with S. Holbrook, R.  
Schmitt, R. Warner, L. Washburn -- \$650,000.

**US Dept. of Interior-Minerals Management Service**, Application of Coastal  
Ocean Dynamics Radars for Observation of Near-Surface Currents off the South-  
Central California Coast, 1996-99, with L. Washburn -- \$299,790.

**InterAmerican Institute for Global Change Research**, Links Between Coastal Productivity, Benthic Communities, and Biogeographic Boundaries in Chile and California, 1996-98, with S. Navarrete & L. Washburn -- \$94,114.

**United States-Israel Binational Science Foundation**, The role of limited-recruitment in coral-reef deterioration, 1997-2000, with A. Abelson & L. Washburn -- \$168,000.

**National Science Foundation**, What Sets Range Limits in the Ocean? The Stability of Biogeographic Boundaries in a Changing Climate, 1998-99; \$29,000

**National Science Foundation**, LTER: Land/Ocean interactions and the Dynamics of Coastal Reef Communities, 1999-2005; with D. Reed, S. Cooper, S. Holbrook, & J. Melack -- \$4,200,000

**David and Lucile Packard Foundation**, PISCO: Partnership for Interdisciplinary Studies of Coastal Oceans, 1999-2004; with R. Warner -- \$6,475,000

**Andrew W. Mellon Foundation**, Interhemispheric Comparisons of Marine Ecosystems, 1999-2002, \$200,000

**Andrea W. Mellon Foundation**, International Partnership in Environmental Informatics, 2000-2003; \$170,000

**UC Mexus**, Environmental Suitability Across Geographic Ranges, 2000-01; \$15,000

**University of California Faculty Outreach Grants**, Floating Classroom Program, 2000-2002; \$100,000

**Minerals Management Service**, Observing the Surface Circulation along the SouthCentral California Coast Using High Frequency Radar, 2000-02; with L. Washburn -- \$224,000

**Minerals Management Service**, Advancing Marine Biotechnology, 2000-02; with R. Schmitt, L. Wilson, S. Holbrook, A. Brooks, R. Jacobs -- \$500,000

**Arenz Foundation**, Enhancing the Science of Marine Reserves, 2002-2004; \$30,000

**National Science Foundation**, Capturing Data in the Field: An Application Framework for Easily Creating Custom Data and Metadata Entry Forms on Handheld and Desktop Computers, 2002-2005; with M. Jones, C. Jones, & C. Blanchette -- \$887,634

**UC Mexus**, Effects of climate change on marine ecosystems, 2002-2004; \$20,000

**University of California Marine Council**, Dynamic characterization of marine habitats, 2002-2004; \$50,000

**University of California Faculty Outreach Grants**, Floating Classroom Program, 2002-2003; \$105,000

**University of California Faculty Outreach Grants**, Floating Classroom Program, 2003-2004; \$45,000

**Boyd Foundation**, Summer Enrichment and Sabbatical Experience for Teachers

(SEASET); \$130,000

**National Science Foundation**, Biocomplexity: Flow, Fish, and Fishing: Disparate Scales of Process Make Fishery Management a Difficult Task, 2003-2008; with D. Siegel, C. Costello, R. Hilborn, R. Warner, 2003-2008; \$1,995,951

**Andrew W. Mellon Foundation**, Linking community ecology and biogeography: the causes of large scale variation in marine ecosystems, 2003-2006; \$360,000

**David and Lucile Packard Foundation**, PISCO: Partnership for Interdisciplinary Studies of Coastal Oceans, 2004; with R. Warner; \$1,290,000

**Pew Foundation**, The science of marine reserve networks, 2003-2006; \$150,000

**National Science Foundation**, with D. Zacherl and R. Warner. Tracking Larval Invertebrate Dispersal Using Calcified Structures, 2004-2007; \$268,000.

**David and Lucile Packard Foundation & Gordon and Betty Moore Foundation**, PISCO: Partnership for Interdisciplinary Studies of Coastal Oceans, 2005-2009; with R. Warner, L. Washburn, and G. Hofmann; \$24.5 million (UCSB share \$8 million)

**Vulcan Inc.**, planning grant for the Global Solutions Institute; with J. Reichman, J. Melack, and D. Aigner. 2005-2007. \$400,000.

**Resources Legacy Fund Foundation**, MLPA Initiative Evaluation Tool. 2005-2008; with W. McClintock. \$326,372.

**University of California Marine Council**, Population connectivity of coastal fishery species across the US-Mexico international border, 2005-2008; with G. Bernardi, and R. Grosberg; \$370,000.

**National Atmospheric and Oceanic Administration**, Construction funds for the headquarters of the National Marine Sanctuary Program and the Outreach Center for Teaching Ocean Science (OCTOS). 2005-2010; \$6,495,699.

**Paul G. Allen Foundation**, New Approaches to Sustainable Fisheries; with C. Costello, J. Melack, and J. Reichman. 2006-2009. \$5,000,000.

**Foundation for Research Science and Technology, New Zealand**, The Effect of Marine Reserves on Fishing. 2006-2009; with N. Shears. \$159,237.

**National Atmospheric and Oceanic Administration**, Graduate Fellowship. 2006-2008; with C. Addison. \$22,400.

**National Science Foundation**, LTER:Land/Ocean Interactions and the Dynamics of Kelp Forest Communities. 2006-2012; with D. Reed, and more than 20 other UCSB investigators. \$5,039,999.

**David and Lucile Packard Foundation**, New Advances in the Science of Marine Reserves, Second Editions of: The Science of Marine Reserves. United States and International Versions. 2006-2008; with J. Lubchenco, B. Simler and S. Airame. \$250,000.

**NASA**, Remote Sensing of Kelp Forest Dynamics; with D. Siegel, D. Reed, P. Kyriakidis, R. Zimmerman. 2007-2010. \$859,049.

**David and Lucile Packard Foundation**, The Science of Marine Reserves. Latin American and Caribbean Version. 2007-2008; with J. Lubchenco, K. Grorud-Culver and S. Airame. \$250,000.

**Henry Luce Foundation**, Science to Solutions. 2007-2011; with J. Melack, A. Alldredge, B. Luyendyck, O. Chadwick, and J. Reichman. \$450,000

**Andrew W. Mellon Foundation**, Making Connections: Predicting Variation in Larval Dispersal at Biogeographic scales. 2007-2009. \$200,000

**Marisla Foundation**, Sustainable Fisheries Group - California Fisheries Fund. 2007-2008; with C. Costello. \$1,000,000.

**Santa Monica Bay Restoration Foundation**, GIS Support for the Analysis of Data Gaps on Habitats and Resources in Santa Monica Bay; with W. McClintock. 2007-2008. \$75,602.

**UC Discovery Grant-Fellows Program**, Venture Acceleration Initiative; fellow funding for Raphael Simon; 2007-2008. \$115,400.

**Resources Legacy Fund Foundation**, The California Marine Life Protection Act Decision Support System: Recommendations for Development and Maintenance for the North Central Coast Study Region. 2007-2008; with W. McClintock. \$203,196.

**Paul G. Allen Foundation**, Digital Ocean. 2008; with C. Penley, J. Melack, R. Rice. \$100,000.

**Society for Conservation Biology**, Forecasting the Ecosystem-Level Effects of Marine Reserves to Inform Ecosystem-Based Management. Smith Fellowship for Anne Salomon. 2008-2010. \$78,174.

**David and Lucile Packard Foundation**, PISCO Organizational Effectiveness Project: Securing the future for an integrated large marine ecosystem research program. 2008; with J. Lubchenco, K. Milligan. \$150,000.

**David and Lucile Packard Foundation**. The Science of Marine Reserves. Web Edition. 2008-2009; with J. Lubchenco, K. Grorud-Culver, B. Simler. \$100,000.

**MacArthur Foundation**. Sampling the Sea: Using Social Networking Tools to Enhance Marine Education and Conservation; with C. Penley, R. Rice, and J. Melack. \$230,000.

**David and Lucile Packard Foundation**. PISCO: Partnership for Interdisciplinary Studies of Coastal Oceans. 2010-2014; with R. Warner, G. Hofmann and 9 other PIs across 4 universities. \$5,000,000

**Gordon and Better Moore Foundation**. PISCO: Partnership for Interdisciplinary Studies of Coastal Oceans. 2010-2012; with J. Caselle, M. Carr, P. Raimondi. \$2,000,000

**Walton Family Foundation**. Sustainable Fishing at the Bottom of the Food Web; with C. Costello. 2010; with C. Costello. \$125,000.

**Waitt Foundation**. Sustainable Ocean Solutions through Rights-Based

Management, Fisheries Certification, and Marine Protected Areas; with C. Costello and R. Deacon. \$2,400,000.

**Walton Family Foundation.** Latin American Fisheries Fellows; with C. Costello. \$2,783,155.

## ***Students Supervised***

### ***Post-doctoral Scholars:***

Phil Yund—currently Director, Marine Science Center, University of New England

Richard Wahle—currently Senior Research Scientist, Bigelow Lab for Ocean Sciences

Ladd Johnson—currently Professor, Université Laval

Suzi Worcester—currently Assoc. Professor, Calif. State Univ., Monterey Bay

Sergio Navarrete—currently Assoc Professor, Pontificia Universidad Catholica de Santiago, Chile

Carol Blanchette – currently Research Biologist, UCSB

Laura Gonzalez – currently Research Scientist, University of Texas, Austin

Cynthia Cudabak – currently Oceanography Consultant, North Carolina

Brian Gaylord – currently Associate Professor, UC Davis

Dov Sax – currently Assistant Professor, Brown University

Michael Hickford – currently Research Biologist, University of Canterbury, New Zealand

William McClintock – currently Associate Project Scientist, UCSB

Ellen Damschen – currently Assistant Professor, Washington University

Anne Salomon – currently Assistant Professor, Simon Frasier University, Vancouver, Canada

Nick Shears -- currently Research Biologist, Auckland University, New Zealand

Cesar Vilas – currently Research Professor of Fisheries, Instituto de Investigación y Formación Agraria y Pesquera, Sevilla, Spain

Brian Kinlan – currently Marine Spatial Ecologist, NOAA National Ocean Service

Christy Henzler\*

Crow White\*

Andrew Rassweiler\*

### ***Graduate Students:***

#### **PhD:**

Alice Brown

Sally Hacker – Associate Professor, Oregon State University

Patricia Halpin – Lecturer, UCLA

Ginny Eckert – Associate Professor, University of Alaska, Fairbanks

Rafe Sagarin – Assistant Research Scientist, Institute of the Environment,  
University of Arizona

Carol Thornber – Assistant Professor, University of Rhode Island

Danielle Zacherl – Assistant Professor, Cal State University Fullerton

Nicole Phillips – Senior Lecturer, Wellington University, New Zealand

Bernardo Broitman – Director, Centro de Estudios Avanzados en Zonas  
Aridas, Chile

Julie Kellner – Assistant Professor, Woods Hole Oceanographic Institute

Kim Selkoe – Postdoctoral Fellow, University of Hawaii

Mike Behrens – Associate Professor, Pacific Lutheran University

Kate Smith – Assistant Research Professor, Brown University

Sarah Lester – Project Coordinator, Sustainable Fisheries Group, UC Santa  
Barbara

Brian Kinlan – Marine Spatial Ecologist, NOAA National Ocean Service

Elizabeth Madin (co-chair) – NSF International Postdoctoral Fellow,  
Macquarie University, Sydney, Australia

Robin Pelc (co-chair) – Fisheries Analyst, Center for the Future of the Ocean

Katherine Emery\* (co-chair)

Lisa Needles\*

Sarah Teck\*

Lisa Max\*

Kristin Carden\*

Stephen Gosnell\*

Rebecca Selden\*

Jorge Cornejo Donoso\*

Ashley Larsen\*

Sarah Rathbone\* (co-chair)

Laura Dee\*

Steve Miller\* (co-chair)

Lindsey Peavy\*

Rebecca Gentry\*

April Ridlon

Darcy Bradley\*

## **Masters:**

UCSB

Peter Taylor – Science Writer, Waterview Consulting

Stephanie Best (co-chair) – PhD candidate, Clinical Psychology, Duke

Cristine McConnell – Photographer/Filmmaker, Cristine McConnell, Inc.



Jason Bram (co-chair) – Biology Instructor, Palo Verde College  
Clara Svedlund – Science Teacher, Laguna Blanca School  
Thom Young (co-chair) – Organic Farmer, Maine  
Christine Addison (co-chair) – Research Biologist, NOAA  
Peggy Lynch – Medical Student  
Rebecca Toseland\*

Undergraduates: more than 100 research projects and honors theses

## ***Publications***

1. 1980 Gaines, S.D. Resistance to herbivory in *Iridaea cordata*. *American Zoologist* 20:808-10.
2. 1981 Sousa, W.P., S.C. Schroeter, & S.D. Gaines. Latitudinal variation in intertidal algal community structure: the influence of grazing and vegetative propagation. *Oecologia* 48:297-307.
3. 1981 Lubchenco, J. & S.D. Gaines. A unified approach to marine plant-herbivore interactions. I. populations and communities. *Annual Review of Ecology and Systematics*. 12:405-437.
4. 1982 Gaines, S.D. & J. Lubchenco. A unified approach to marine plant-herbivore interactions. II. biogeography. *Annual Review of Ecology and Systematics*. 13:111-138.
5. 1984 Hay, M. & S.D. Gaines. Biogeographic differences in herbivore impact: do Pacific herbivores prevent Caribbean seaweeds from colonizing via the Panama Canal? *Biotropica* 16:24-30.
6. 1984 Roughgarden, J., S.D. Gaines, & Y. Iwasa. Dynamics and evolution of marine populations with pelagic larval dispersal. In: R. M. May (ed) *Exploitation of Marine Communities*. Springer-Verlag, Berlin. pp. 111-128.
7. 1984 Lubchenco, J., B. Menge, L. Ashkenas, P. Lubchenco, S. Garrity, S.D. Gaines, R. Emlet, J. Lucas, & S. Strauss. Patterns of community structure and the physical environment in a tropical intertidal community. *Journal of Experimental Marine Biology and Ecology*. 77:23-73.
8. 1985 Gaines, S.D. Herbivory and between-habitat diversity: the differential effectiveness of defenses in a marine plant. *Ecology* 66:473-485.
9. 1985 Gaines, S.D. & J. Roughgarden. Larval settlement rate: a leading determinant of structure in an ecological community of the rocky intertidal zone. *Proceedings of the National Academy of Sciences*. 82:3707-3711.
10. 1985 Gaines, S.D., S. Brown, & J. Roughgarden. Spatial variation in larval concentrations as a cause of spatial variation in settlement in the barnacle, *Balanus glandula*. *Oecologia*. 67:267-272.
11. 1986 Robertson, D.R. & S.D. Gaines. Interference competition structures habitat use in a local assemblage of coral reef surgeonfishes. *Ecology*. 67:1372-1383.
12. 1986 Menge, B., J. Lubchenco, L. Ashkenas, & S.D. Gaines. A test of the

- Menge-Sutherland model of community organization in a tropical rocky intertidal food web. *Oecologia*. 71:75-89.
13. 1987 Gaines, S.D. & J. Roughgarden. Fish in offshore kelp forests affect recruitment to intertidal barnacle populations. *Science*. 235:479-481.
  14. 1987 Roughgarden, J., S.D. Gaines, & S. Pacala. Supply side ecology: the role of physical transport processes. in P. Giller and J. Gee (eds.) *Organization of Communities: Past and Present*. Proceedings of the British Ecological Society Symposium, Aberystwyth, Wales (April 1986). Blackwell Scientific Publications. London
  15. 1987 Roughgarden, J. & S.D. Gaines. Ecology of marine populations. Chapter 18 in *Physiological Responses of Marine Organisms to Environmental Stressors*.
  16. 1988 Roughgarden, J., S.D. Gaines, & H. Possingham. Recruitment Dynamics in complex life cycles. *Science*. 241:1460-1466.
  17. 1989 Rice, W.R., & S.D. Gaines. The analysis of variance with unequal variances. *Proceedings of the National Academy of Sciences*. 86:8183-8184.
  18. 1990 Denny, M., & S.D. Gaines. On the prediction of maximum intertidal wave forces. *Limnology and Oceanography*. 35:1-15.
  19. 1990 Gaines, S.D. & W.R. Rice. Analysis of biological data with ordered expectations. *American Naturalist*. 135:310-317.
  20. 1991 Yund, P., S.D. Gaines, & M. Bertness. Cylindrical tube traps for sampling larvae. *Limnology and Oceanography*. 36:1167-1177
  21. 1991 Bertness, M., S.D. Gaines, D. Bermudez, & E. Sanford. Extreme spatial variation in the growth and reproductive output of the acorn barnacle *Semibalanus balanoides*. *Marine Ecology Progress Series*. 75:91-100.
  22. 1992 Bertness, M., S.D. Gaines, E. Stephens, & P. Yund. Components of recruitment in populations of the acorn barnacle, *Semibalanus balanoides*. *Journal of Experimental Marine Biology and Ecology*. 156:199-215.
  23. 1992 Gaines, S. D. & M. Bertness. Dispersal of juveniles and variable recruitment in sessile marine species. *Nature*. 360:579-580.
  24. 1993 Bertness, M. & S.D. Gaines. Larval dispersal and local adaptation in acorn barnacles. *Evolution*. 47:316-320.
  25. 1993 Gaines, S.D. & M. Denny. The largest, smallest, highest, lowest, longest, and shortest: Extremes in ecology. *Ecology*. 74:1677-1692.
  26. 1993 Rice, W. R. & S.D. Gaines. Calculating P-values for ANOVA with unequal variances. *Journal of Statistical Computation and Simulation*. 46:19-22.
  27. 1993 Gaines, S. D. & M. Bertness. The dynamics of juvenile dispersal: Why field ecologists must integrate. *Ecology*. 74:2430-2435.
  28. 1994 Rice, W.R. & S.D. Gaines. Extending nondirectional heterogeneity tests to evaluate simply ordered alternative hypotheses.. *Proceedings of the National Academy of Sciences*. 91:225-226.
  29. 1994 Rice, W. R. & S. D. Gaines. Heads I win, tails you lose: testing directional alternative hypotheses in ecological and evolutionary research. *Trends in Ecology and Evolution*. 9:235-237.
  30. 1994 Sanford, E. D. Bermudez, M. Bertness, & S. D. Gaines. Flow, food supply,

- and the population dynamics of acorn barnacles. Marine Ecology Progress Series. 104:49-62.
31. 1994 Rice, W.R. & S.D. Gaines. The ordered-heterogeneity test. Biometrics. 50:1-7.
  32. 1994 Gaines, S. D. and M. Bertness. Does variable transport generate variable settlement in coastal and estuarine species? in Changes in Fluxes in Estuaries, K. Dyer & R. Orth (eds.). Olsen and Olsen, London. 315-322.
  33. 1995 Gaines, S. D. and K. Lafferty. Modeling the dynamics of marine species: the importance of incorporating larval dispersal. in Ecology of Marine Invertebrate Larvae, Larry McEdward ed. CRC Press. pp 389-412.
  34. 1996 Bertness, M., S. D. Gaines, and R. Wahle. Wind-driven settlement patterns in the acorn barnacle, Semibalanus balanoides. Marine Ecology Progress Series. 137:103-110.
  35. 1997 Hacker, S. and S. D. Gaines. Some implications of direct positive interactions for community species diversity. Ecology. 78:1990-2003.
  36. 1997 Gaines, S. D. Biogeographic boundaries and species distribution. Alolkoj 10:10.
  37. 1997 Worcester, S. and S. D. Gaines. Quantifying hermit crab recruitment rates and larval shell selection on wave swept shores. Marine Ecology Progress Series. 157:307-310.
  38. 1998 Bertness, M. D., S. D. Gaines, and S. M. Yeh. Making mountains out of barnacles: the dynamics of hummock formation. Ecology. 79:1382-1394
  39. 1999 Field, C. B., G. C. Daily, F. W. Davis, S. Gaines, P. A. Matson, J. Melack, N. L. Miller. Confronting Climate Change in California: Ecological Impacts on the Golden State. Union of Concerned Scientists, Cambridge, MA and Ecological Society of America, Washington, DC.
  40. 1999 Taylor, P. and S. D. Gaines. Can Rapoport's Rule be Rescued: Modeling possible causative mechanisms of the latitudinal gradient in species diversity. Ecology. 80:2474-2482
  41. 1999 Blanchette, C.A., C. Thornber, and S. D. Gaines. Effects of wave exposure on intertidal furoid algae. Fifth Channel Islands Symposium. Pp 347-355.
  42. 2000 Gaylord, B. and S. D. Gaines. Temperature or transport: species ranges mediated solely by flow. American Naturalist. 155:769-789.
  43. 2000 Denny, M. W. and S. D. Gaines. *Chance in Biology*. Princeton University Press. Princeton. 291 p.
  44. 2000 Debenham, P., M. Brzezinski, K. Foltz, and S. Gaines. Genetic structure of populations of the red sea urchin, Strongylocentrotus franciscanus. Journal of Experimental Marine Biology and Ecology. 253:49-62.
  45. 2000 Wares, J., S. D. Gaines, and C. Cunningham. A comparative study of asymmetric migration events across a marine biogeographic boundary. Evolution. 55:295-306.
  46. 2000 Bertness, M., S. D. Gaines, and M. Hay. (eds). Marine Community Ecology. Sinauer Press. Sunderland, Massachusetts. 550 p.
  47. 2001 Botsford, L., A. Hastings and S. Gaines. Dependence of sustainability on the configuration of marine reserves and larval dispersal distance. Ecology Letters. 4:144-150.

48. 2001 Broitman, B. R., S.A. Navarrete, F. Smith and S. D. Gaines. Geographic variation of southeastern Pacific intertidal communities. *Marine Ecology Progress Series* 224:21-34
49. 2002 Sagarin, R. and S. D. Gaines. The “abundant center” distribution: to what extent is it a biogeographic rule? *Ecology Letters* 5: 137-148.
50. 2002 Blanchette, C. A., S. Gaines, and B. Miner. Geographic variability in form, size and survival of *Egregia menziesii* (Turner) Areschoug around Point Conception, California. *Marine Ecology Progress Series*. 239:69-82.
51. 2002 R. D. Sagarin and S. D. Gaines: Geographical abundance distributions of coastal invertebrates: using one-dimensional ranges to test biogeographic hypotheses. *Journal of Biogeography*. 29:985-998.
52. 2002 Phillips, N. E., and S. D. Gaines. Spatial and temporal variability in size at settlement of intertidal mytilid mussels from around Pt. Conception, California. *Invertebrate Reproduction and Development*. 41:171-177.
53. 2002 Sax, D., S. D. Gaines, and J. Brown. Species invasions exceed extinctions on islands world-wide: a comparative study of plants and birds. *American Naturalist*. 160:766-783.
54. 2002 Halpern, B., R. Warner, and S. Gaines. Letter to Editor in response to “Measuring Effects of Marine Reserves on Fisheries: the Dilemmas of Experimental Programs.” *MPA News*. 4:5.
55. 2003 Gaines, S. D., B. Gaylord, and J. Largier. Avoiding current oversights in marine reserve design. *Ecological Applications*. 13:S32-46
56. 2003 Allison, G., S. Gaines, J. Lubchenco, and H. Possingham. Ensuring persistence of marine reserves: Catastrophes require adopting an insurance factor. *Ecological Applications* 13:S8-24
57. 2003 Gerber, L. R., S. J. Andelman, L. W. Botsford, S. D. Gaines, A. Hastings, S. R. Palumbi, and H. P. Possingham. Population models for marine reserve design: A retrospective and prospective synthesis. *Ecological Applications*. 13:S47-64
58. 2003 Lubchenco, J., S. Palumbi, S. D. Gaines, and S. Andelman. Plugging a hole in the ocean: an introduction to the special feature on marine reserves. *Ecological Applications*. 13:S3-7.
59. 2003 Palumbi, S., S. D. Gaines, R. Warner, and H. Leslie. New wave: high-tech tools to help marine reserve research. *Frontiers in Ecology and the Environment*. 1:73-79
60. 2003 Zacherl, D C, P H Manríquez, G Paradis, R W Day, J C Castilla, R R Warner, D W Lea & S D Gaines. Trace elemental fingerprinting of gastropod statoliths to study larval dispersal strategies. *Marine Ecology Progress Series*. 248:297-303.
61. 2003 Washburn, L. and S. D. Gaines. Summary of findings for using high frequency radar in Physical oceanographic and ecological studies. MMS OCS Study 2001-056. Coastal Research Center, Marine Science Institute, University of California, Santa Barbara, California. MMS Cooperative Agreement Number 14-35-0001-30758. 31 p.
62. 2003 Menge, B., J. Lubchenco, M. E. S. Bracken, M. Foley, T. Freidenburg, S. D. Gaines, G. Hudson, C. Krenz, H. Leslie, D. N. L. Menge, R. Russell,

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