

JONATHON H. STILLMAN - *CURRICULUM VITAE*

CONTACT INFORMATION:

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EDUCATION:

Ph.D. 1999 Oregon State University, Zoology (1995-1998 at Stanford Univ., Hopkins Marine Station),
Advisor: George Somero
B.S. 1991 University of Minnesota, Ecology, Evolution and Behavior

PROFESSIONAL APPOINTMENTS:

2010-present Associate Professor, Romberg Tiburon Center and Department of Biology, San Francisco
State University (promotion to Professor in August 2014)
2009-present Assistant Adjunct Professor, Dept. of Integrative Biology University of California Berkeley
2005-2010 Associate Graduate Faculty, Dept. of Zoology, University of Hawaii Manoa
2005-2010 Assistant Professor, Romberg Tiburon Center and Department of Biology, San Francisco
State University
2005-2009 Visiting Scholar, University of California Berkeley
2003-2005 Assistant Professor, Dept. of Zoology, University of Hawaii Manoa
2001-2003 Postdoctoral Fellow, Hopkins Marine Station, Stanford University (George Somero's Lab)
2000-2001 Visiting Assistant Professor, Dept. of Biology, Occidental College
1999-2000 Postdoctoral Fellow, Dept. of Biology, Johns Hopkins University (Ernesto Friere's Lab)
1999 Instructor, NSF Antarctic Biology Course, McMurdo Station, Antarctica
1996 Lecturer, Marine Physiology, Hatfield Marine Science Center, Oregon State University

HONORS AND AWARDS:

2013 Elected a Fellow of the California Academy of Sciences
2004 Pacific Institute of Marine Sciences Fellowship
1998 The Professor Serge N. Timasheff Award for excellence in graduate studies in the field of
protein stability research, First Place
1994 Sigma Xi Award for best student poster, Oregon State University Chapter, First Place
1991 Minnesota Academy of Science, Winchell Award for best student paper, First Place
1990 Pick Scholarship for study at the Bermuda Biological Station for Research
1990 Minnesota Academy of Science, Winchell Award for best student paper, Third Place

PUBLICATIONS:

Peer Reviewed:

March 2014 Impact assessment: h-index=15, 14 papers cited \geq 20 times; 7 papers cited \geq 60 times,
4 papers cited \geq 100 times; 2003 *Science* paper cited 184 times
Authorship: ^{UG} undergraduate & ^{MS or PhD} graduate student author, ^{URM} under-represented minority
Citations indicated in square brackets []

Paganini, AW, Miller, NA, Stillman JH. #####. Temperature and pH variability reduce physiological
performance in intertidal zone crabs. *J. Exp. Biol. In Review*.

Bjelde, B, Miller, N, Stillman, JH, Todgham, A. #####. The role of oxygen in determining upper thermal
limits in *Lottia digitalis* under emersion and immersion. *J. Exp. Biol. In Review*.

Stillman JH and EA Armstrong. #####. Genomics are transforming our understanding of responses to
climate change. *Biosci. In Review*.

44. Leignel, V., J.H. Stillman, S. Baringou, R. Thabet and R. Metais. 2014. Overview on the European green crab *Carcinus* spp. (Portunidae, Decapoda), one of the most famous marine invaders and ecotoxicological models. *Environmental Science and Pollution Research*. In press.
43. Miller, N.A., Chen, X. and J.H. Stillman. 2014. Metabolic physiology of the invasive clam, *Potamocorbula amurensis*: The interactive role of temperature, salinity, and food availability. *PLoS ONE* 9(3): e91064. doi:10.1371/journal.pone.0091064
42. Sunday, J.M., P. Calosi, S. Dupont, P.L. Munday, J.H. Stillman and T.B.H. Reusch. 2014. Evolution in an acidifying ocean. *Trends in Ecology and Evolution*. 1772: <http://dx.doi.org/10.1016/j.tree.2013.11.001>.
41. Benner, I., R.E. Diner^{MS}, S.C. Lefebvre, D.Li^{MS}, T. Komada, E.J Carpenter, J.H. Stillman. 2013. *Emiliana huxleyi* increases calcification but not expression of calcification- related genes in long-term exposure to elevated temperature and pCO₂. *Phil. Trans. Roy. Soc. B* 368: 20130049. <http://dx.doi.org/10.1098/rstb.2013.0049>. [3]
40. Todgham, A.E. and J.H. Stillman. 2013. Physiological Responses to Shifts in Multiple Environmental Stressors: Relevance in a Changing World. *Integr. Comp. Biol.* doi: 10.1093/icb/ict086.
39. Vogt, R.A.^{MS}, T.R. Ignoffo, L.J. Sullivan, J. Herndon, J.H. Stillman and W. Kimmerer. 2013. Feeding capabilities and limitations in the nauplii of two pelagic estuarine copepods, *Pseudodiaptomus marinus* and *Oithona davisae*. *Limnol. Oceanog.* 58: 2145–2157.
38. Singh, R., H. Yang, B. Dalziel^{MS}, D. Asarnow, W. Murad, D. Foote, M. Gromley, J. Stillman and S. Fisher. Toward human-computer synergetic analysis of large-scale biological data. *BMC Bioinformatics*, <http://www.biomedcentral.com/1471-2105/14/S14/S10>
37. Miller, N.A., A.W. Paganini^{MS} and J.H. Stillman. 2013. Differential thermal tolerance and energetics trajectories during ontogeny in porcelain crabs, genus *Petrolisthes*. *J. Therm. Biol.* 38: 79-85. [1]
36. Carter H.A.^{MS}, L.O. Ceballos^{MS,URM}, N. Miller and J.H. Stillman. 2013. Impact of ocean acidification on the metabolism and energetics of early life stages in the intertidal porcelain crab *Petrolisthes cinctipes*. *J. Exp. Biol.* 216: 1412-1422 (Featured Article) [2]
35. Ceballos, L.O.^{MS,URM}, H.A. Carter^{MS}, N. Miller and J.H. Stillman. 2013. Effects of ocean acidification on early life-history stages of the intertidal porcelain crab *Petrolisthes cinctipes*. *J. Exp. Biol.* 216: 1405-1411 (Featured Article) [3]
34. Miller, N. and J.H. Stillman. 2013. Role of salinity and temperature in *Corbula amurensis* energetics in the upper San Francisco Bay Estuary. *Mar. Ecol. Prog. Ser.* 476: 129-139.
33. Ronges, D.^{UG}, J.P. Walsh^{UG}, B.J. Sinclair, and J.H. Stillman. 2012. Membrane composition and gene expression during the first day of thermal acclimation in the porcelain crab *Petrolisthes cinctipes*. *Journal of Experimental Biology*. 215: 1824-1836.
32. Miller, N., and J.H. Stillman. 2012. Physiological optima and critical limits. *Nature Education Knowledge*. 3(5): 1 [1]
31. Chen, X.^{MS}, and J.H. Stillman. 2012. Multigenerational analysis of temperature and salinity variability: affects on metabolic rate, generation time, and acute thermal and salinity tolerance in *Daphnia pulex*. *Journal of Thermal Biology*. 37(3): 185-194.[1]
30. Miller, N., and J.H. Stillman. 2012. Diversity and plasticity of neuronal thermal performance in porcelain crabs, genus *Petrolisthes*. *Physiological and Biochemical Zoology*. 85: 29-39.
29. Lefebvre, S.C., I. Benner, J.H. Stillman, M.K. Drake^{UG}, P.E. Rossignol, K.M. Okimura^{MS}, T. Komada, E.J. Carpenter. 2011. Nitrogen source and pCO₂ synergistically affect carbon allocation, growth and morphology of the coccolithophore *Emiliana huxleyi*. *Global Change Biology*. 18: 493-503 (COVER ARTICLE) [11]
28. Cayenne, A.P.^{MS,URM}, B. Gabert^{PhD}, and J.H. Stillman. 2011. Identification of proteins interacting with lactate dehydrogenase in claw muscle of the porcelain crab *Petrolisthes cinctipes*. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*. 6(4): 393-398.
27. Stillman, J.H., M. Denny, D.K. Padilla, M.H. Wake, S. Patek, B. Tsukimura. 2011. Grand Opportunities: Strategies for Addressing Grand Challenges in Organismal Animal Biology. *Int. Comp. Biol.* 51(1): 7-13 [2]

26. Dorgan, K.M., S. Lefebvre, J.H. Stillman, M.A.R. Koehl. 2011. Energetics of burrowing by the cirratulid polychaete, *Cirriformia moorei*. *J. Exp. Biol.* 214: 2202-2214 [2]
25. Paganini, A.W.^{UG}, W.J. Kimmerer, J.H. Stillman. 2010. Metabolic responses to environmental salinity in the invasive clam *Corbula amurensis*. *Aquatic Biology* 11: 139-147 [2]
24. McGaw, I.J. and J.H. Stillman. 2010. Cardiovascular system of the Majidae (Crustacea: Decapoda). *Arthropod Structure and Development* 39: 340-349 [1]
23. Rais, A.^{MS}, N. Miller and J.H. Stillman. 2010. No evidence for homeoviscous adaptation in intertidal snails: analysis of membrane fluidity during thermal acclimation, thermal acclimatization, and across thermal microhabitats. *Marine Biology* 157: 2407-2414 [1]
22. Mykles, D, C.K. Ghalambour, J.H. Stillman, and L. Tomanek. 2010. Grand challenges in comparative physiology: Integration across disciplines and across levels of biological organization. *Int. Comp.* 50(1): 6-16 [15]
21. Tagmount, A., M. Wang, E. Lindquist, Y. Tanaka^{MS}, K.S. Teranishi^{MS}, M. Wong, S. Sunagawa^{PhD}, and J.H. Stillman. 2010. The porcelain crab transcriptome and PCAD, the porcelain crab microarray and sequence database. *PLoS ONE*. 5(2): e9327 [11]
20. Barshis, D.J.^{PhD}, J.H. Stillman, R.D. Gates, R.J. Toonen, L.W. Smith^{PhD}, and C. Birkeland. 2010. Coral resistance to environmental extremes: a case for host adaptation. *Molecular Ecology* 19 (8): 1705 - 1720. [41]
19. Stillman, J.H. and A. Tagmount. 2009. Seasonal and latitudinal acclimatization of cardiac transcriptome responses to thermal stress in porcelain crabs, *Petrolisthes cinctipes*. *Molecular Ecology*. 18: 4206-4226. [31]
18. Gaston, K.J., S.L. Chown, P. Calosi, J. Bernardo, D.T. Bilton, A. Clarke, S. Clusella-Trullas, C.K. Ghalambor, M. Konarzewski, L.S. Peck, W.P. Porter, H.O. Pörtner, E.L. Rezende, P.M. Schulte, J.I. Spicer, J. Stillman, J.S. Terblanche and M. van Kleunen. 2009. Macrophysiology: A Conceptual Re-unification. *American Naturalist*. 174: 595-612. [64]
17. Stillman, J.H., J.K. Colbourne, C.E. Lee, N.H. Patel, M.R. Phillips, D.W. Towle, B.D. Eads, G.W. Gelembuik, R.P. Henry, E.A. Johnson, M.E. Pfrender, N.B. Terwilliger. 2008. Recent advances in crustacean genomics. *Integrative and Comparative Biology*. 48(6): 852-868 [21]
16. DeSalvo, M.K.^{PhD}, C.R. Voolstra, J.A. Schwarz, J.H. Stillman, M.A. Coffroth, A.M. Szmant, M. Medina. 2008. Differential gene expression during thermal stress and bleaching in the Caribbean coral *Montastrea faveolata*. *Molecular Ecology*. 17: 3952-3971 [109]
15. Cristescu, M.E., D.J. Innes, J.H. Stillman and T.J. Crease. 2008. D- and L-lactate dehydrogenases during invertebrate evolution. *BMC Evolutionary Biology*. 8: 268 [12]
14. Teranishi, K.S.^{MS} and J.H. Stillman. 2007. A cDNA microarray analysis of the response to heat stress in hepatopancreas tissue of the porcelain crab *Petrolisthes cinctipes*. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*. 2: 53-62. [29]
13. Stillman, J.H., K.S. Teranishi^{MS}, A. Tagmount, E.A. Lindquist, P.B. Brokstein. 2006. Construction and characterization of EST libraries from the porcelain crab, *Petrolisthes cinctipes*. *Integrative and Comparative Biology*. 46: 919-930. [15]
12. Pörtner, H.O., Bennett, A.F., Bozinovic, F., Clarke, A., Lardies, M.A., Lenski, R.E., Lucassen, M., Pelster, B., Schiemer, F., Stillman, J.H. 2006. Tradeoffs in thermal adaptation: the need for a molecular to ecological integration. *Physiological and Biochemical Zoology* 79(2): 295-313. [102]
11. Stillman, J.H. 2004. A comparative analysis of plasticity of thermal limits in porcelain crabs across latitudinal and intertidal zone clines. *International Congress Series*. 1275C: 267-275. [7]
10. Stillman, J.H. and F.H. Barnwell. 2004. Relationship of daily and circatidal activity rhythms of the fiddler crab, *Uca princeps*, to the harmonic structure of semidiurnal and mixed tides. *Marine Biology*. 144: 473-482. [10]
9. Stillman, J.H. 2003. Acclimation capacity underlies susceptibility to climate change. *Science*, 301: 65. [184]
8. Leary, S.C., C.N. Lyons, A.G. Rosenberger, J.S. Ballantyne, J.H. Stillman, C.D. Moyes. 2003. Fiber-type differences in muscle mitochondrial profiles. *American Journal of Physiology*. 285: R817-826. [45]

7. Stillman, J.H. 2002. Causes and consequences of thermal tolerance limits in rocky intertidal porcelain crabs, genus *Petrolisthes*. *Integrative and Comparative Biology*. 42(4): 790-796. [82]
6. Dahlhoff, E.P., J.H. Stillman and B.A Menge. 2002. Variation in metabolic activity of ecologically important rocky intertidal invertebrates along environmental gradients. *Integrative and Comparative Biology*. 42(4): 862-871. [27]
5. Stillman, J.H. and C. Reeb. 2001. Molecular phylogeny of eastern Pacific porcelain crabs, genera *Petrolisthes* and *Pachycheles*, based on the mtDNA 16s rDNA sequence: Phylogeographic and systematic implications. *Molecular Phylogenetics and Evolution*. 19: 236-245. [58]
4. Stillman, J.H. and G.N. Somero. 2001. A comparative analysis of the evolutionary patterning and mechanistic bases of lactate dehydrogenase thermal stability in porcelain crabs, genus *Petrolisthes*. *Journal of Experimental Biology*. 204: 767-776. [5]
3. Stillman, J.H. 2000. The evolutionary history and adaptive significance of secondary respiratory structures in intertidal crabs: relationships with body size and vertical distribution. *Physiological and Biochemical Zoology*. 73(1): 86-96. [9]
2. Stillman, J.H. and G.N. Somero. 2000. A Comparative Analysis of the Upper Thermal Tolerance Limits of Eastern Pacific Porcelain Crabs, Genus *Petrolisthes*: Influences of Latitude, Vertical Zonation, Acclimation, and Phylogeny. *Physiological and Biochemical Zoology*. 73(2): 200-208. [123]
1. Stillman, J.H. and G.N. Somero. 1996. Adaptation to temperature stress and aerial exposure in congeneric species of intertidal porcelain crabs (Genus *Petrolisthes*): Correlation of physiology, biochemistry and morphology with vertical distribution. *Journal of Experimental Biology*. 199: 1845-1855. [94]

Book Chapters:

2. Stillman, J.H and D.A. Hurt^{PhD}. 2014. Crustacean genomics and functional genomic responses to environmental stress and infection. *Natural History of Crustaceans, Volume IV. Accepted – in Press*.
1. Stillman, J.H. 2007. *Crabs*. In *Encyclopedia of Tidepools*, Steve Gaines and Mark Denny eds. University of California Press. Pp 164-168.

Editorial Contributions & Book Reviews:

8. Stillman, J.H. 2012. Review of “The Flexible Phenotype: A body-Centred Integration of Ecology, Physiology, and Behavior” by Theunis Piersma and Jan A. van Gils, Oxford Univ. Press 2011, 238pp. *J. Exp. Mar. Biol. Ecol.* 426-427: 109-110.

Reviews in the “Outside the JEB” (Journal of Experimental Biology):

7. Stillman, J.H. 2004. Speed or Sex? A spider’s solution. 207: iv.
6. Stillman, J.H. 2004. Cryptobiosis via Spindle Checkpoint. 207: vi.
5. Stillman, J.H. 2004. Frozen Frogs Fall Behind. 207: 391.
4. Stillman, J.H. 2003. Winter Warming Woos Winged Wanderers. 206: 3891.
3. Stillman, J.H. 2003. Eat well to live long. 206: 2529.
2. Stillman, J.H. 2003. Sunny side up for hot corals. 206: 1435.
1. Stillman, J.H. 2002. Thermobiology and host-swapping in malaria. 206: 426.

Conference Presentations: 90, full list in separate document

GRANTS & AWARDS IN SUPPORT OF RESEARCH (*Extramural Funding on grants starting 2010 or more recent: ~\$1.5M; Total Extramural Funding: ~\$4.5M*)

- National Science Foundation, Biological Sciences IOS-1237646. PIs: A. Todgham and J. Stillman. Meeting: Physiological Responses to Multiple Stressors in a Changing Climate, A symposium for the 2013 SICB annual meeting in San Francisco, CA. \$15,000
- Gordon and Betty Moore Foundation, BiGCB Outcome 4, PIs: J. Stillman, P.O’Grady, V. Resh, M. Power. *Understanding physiology, genomics and phylogeography of pivotal primary consumers across California’s coastal riverine ecosystems will generate new knowledge to enable predictive*

models of aquatic ecosystem responses to climate change and water distribution scenarios. 11/1/11-10/31/14. \$381K (UC Berkeley)

National Oceanic and Atmospheric Administration, National Marine Fisheries Service. PI: J. Stillman. *Assessment of Ocean Acidification on Bristol Bay Red King Crab.* 9/21/11-6/30/14. \$120K (UC Berkeley)

National Science Foundation, PI: J. Stillman *Ocean Acidification Category 1 Collaborative Research: RUI: Synergistic Effects of Temperature and pH Variability on Physiology, Transcriptome and Proteome of Porcelain Crabs.* MCB-1041225 10/1/10-9/30/14. \$534K. (SFSU)

Interagency Ecological Program, US Bureau of Reclamation, Cooperative Agreement Number R10AC20074. PI: J. Stillman. Fall Habitat Task 3: Metabolic responses to variable salinity environments in field-acclimatized *Corbula amurensis*. 8/15/10-8/15/13. \$443K (SFSU)

National Science Foundation, Biological Sciences, IOS-PSS-OEI (IOS-0920050), PI: J. Stillman *RUI: Deducing physiological costs of elevated thermal tolerance from life-history stage-dependent changes in thermal habitat.* 8/15/09-8/14/11. \$200K. (SFSU)

National Science Foundation, Emerging Frontiers, Environmental Genomics (En-Gen) and Biological Oceanography (OCE; OCE-0723908). PIs: Ed Carpenter, J. Stillman and T. Komada, *En-Gen: A functional genomic analysis of how a major calcifying phytoplankton responds to ocean acidification predicted for the end of the century.* 10/1/07-9/30/11. \$1.2M. (SFSU)

National Science Foundation, Biological Sciences, Integrative Organismal Systems (IOS-0758513). PI: J. Stillman *Symposium: Recent Advances in Crustacean Genomics: a 2-year progress report.* 1/2008-6/2008, \$7K (SFSU)

National Science Foundation, Biological Sciences, Environmental and Structural Systems (ESS 0533920). PI: J. Stillman, *Correlating cardiac thermal performance limits with transcriptome profiles during thermal acclimation of the intertidal porcelain crab, *Petrolisthes cinctipes*.* 6/1/05-5/31/08 \$497K + \$18K in REU supplements. (SFSU)

National Institutes of Health, General Medical Sciences, MBRS-SCORE program, S06 GM052588-13. PI: J. Stillman, *Intrinsic and Extrinsic Modulators of Protein Stability.* 1/1/07-12/31/10 \$300K. (SFSU)

Department of Energy, Joint Genome Institute, Community Sequencing Program (CSP, 05-SE-14). PI: J. Stillman, *Sequencing and annotation of crab cDNAs for transcriptome analyses of thermal physiology.* 6/05-12/07 approximate value \geq \$320K in DNA sequencing services. (SFSU)

United States Geological Survey, Biological Resources Division, Global Climate Change Project. PI: C. Birkeland, Co-Is: C. Baker, G. Garrison, R. Gates, C. Kellog, G. Piniak, M Rappé, R. Toonen, J. Stillman, R. van Woesik. *Extrinsic and intrinsic factors affecting the resilience of corals to climate change, and their use in designing marine reserves.* 10/1/04-9/30/07 \$534K. (UHawaii)

Interagency Ecological Program (IEP), California Department of Water Resources. PI: Wim Kimmerer, J. Stillman. *Zooplankton and Clam Analyses in Support of IEP's Work Plan on Pelagic Organism Declines.* 10/1/06-9/30/08 \$231K. (SFSU)

Alaska Dept. of Fish and Game. PI: Peter van Tamalen, J. Stillman. *Cooperative Research on snow crab thermal physiology.* 1/1/04-6/1/04 \$12K. (UHawaii)

National Science Foundation, Biological Sciences, Doctoral Dissertation Improvement Grant. *Fine scale evolutionary adaptation to temperature: A comparative approach using porcelain crabs (genus *Petrolisthes*).* 6/1/97-5/31/99 \$9,500 (Hopkins Marine Station)

TEACHING:

Present courses each taught once per year:

Animal Physiology (BIOL 630): A classical "comparative physiology" course.

Animal Physiology Laboratory (BIOL 631/731 GWAR): A research-based course for learning basic methods and applying them in a research context.

Graduate Seminars (BIOL 863): Physiological and Biochemical Adaptation to Marine Environments

Current RTC Research (BIOL 883): A scientific communication and networking course.

Research Skills (BIOL 344/844): Professional skills needed for success in graduate school.

Marine Science Review (IB 230 @ UC Berkeley): A graduate journal club and project feedback group.
Geomorphology of Tropical Islands (IB 158c @ UC Berkeley): A field course in French Polynesia.

Courses taught in former faculty positions

Animal Physiology (ZOOL 430L @ UH)
Introductory Zoology (ZOOL 101 @ UH)
Biochemistry, Occidental College
Molecular Biology, Occidental College
Marine Physiology and Biochemistry, Oregon State University

PROFESSIONAL ACTIVITIES & SERVICE:

National-International Journal, Board, and Committee Service

Society for Integrative and Comparative Biology (SICB), Division of Comparative Physiology and Biochemistry: Program Officer 2013-2014, Secretary 2006-2008. Nominated for SICB Secretary (2010, not elected) and Program Officer (2014, not elected).
American Physiological Society 2014 Intersociety Comparative Physiology Meeting Co-Organizer (2013-2014)
Participant in Gulf of the Farallones National Marine Sanctuary North-central California Coast and Ocean Climate-Smart Adaptation Project (2014)
Journal Editorial Service: Editorial Board *Physiological and Biochemical Zoology*, Reviewing Editor *Frontiers in Aquatic Physiology*, Editorial Advisory Board *Journal of Comparative Physiology B*, Associate Editor *BMC Genomics*.
Panel Member: National Science Foundation, 2005, 2007, 2009 (invited 2005-2011)
Judge for graduate student awards at SICB meetings 2004-2014, APS meeting 2010, other meetings.
Participant in Workshop: Integrative Conceptual Framework for Assessing Relative Endangerment to Climate Change (ICFARECC) (Cornell University May 2009, Field Museum Chicago October 2009)
Reviewer for professional journals: *American Naturalist*, *Animal Ecology*, *Aquatic Biology*, *Biological Bulletin*, *Biological Invasions*, *Biological Journal of the Linnean Society*, *Biology Letters*, *BMC Genomics*, *Bulletin of Marine Science*, *Comparative Physiology and Biochemistry*, *Ecosphere*, *Environmental Science and Technology*, *Evolution*, *Functional Ecology*, *Gene*, *Genesis*, *Invertebrate Biology*, *Journal of Comparative Physiology B*, *Journal of Evolutionary Biology*, *Journal of Experimental Biology*, *Journal of Molecular Evolution*, *Journal of the Marine Biological Association UK*, *Marine Biology*, *Marine Ecology Progress Series*, *Molecular Ecology*, *Molecular Phylogenetics and Evolution*, *Physiological and Biochemical Zoology*, *PLoS Biology*, *PLoS ONE*, *Proceedings of the National Academy of Sciences USA (PNAS)*, *Proceedings of the Royal Society B*, *Science*, *Scientia Marina*
Reviewer for grant proposals: *National Science Foundation BIO IOS OEI*, *BIO-OCE*, *OPP (2003-2014)*, *Department of Defense (2004)*, *Leverhulme Trust (2009)*, *FONDECYT (Chile, 2009, 2013)*, *National Research Foundation (Singapore, 2009)*, *NERC (2009, 2013)*, *Gulf of Mexico Research Initiative (2012)*
Participant in Integrative Conceptual Framework for Assessing Relative Endangerment to Climate Change (ICFARECC), Cornell University and Field Museum (Chicago) 2009.

University Service

SFSU

2014: RTC Director Search Committee
2014: RTC Outreach Committee
2013-2014: Chair, Bioinformatics Search Committee (Biology)
2013-present: Rosenberg Institute Committee (RTC)
2013: Faculty Representative to RTC Advisory Board
2012-2014: CoSE Leave with Pay Committee
2011-Present: CoSE Infrastructure Committee
2006-Present: Chair, Curriculum Committee (RTC)

- 2006-Present: Co-Chair, Seminar Committee (RTC)
- 2006-Present: Seawater Committee (RTC)
- 2007-Present: Governing Board, Moss Landing Marine Laboratory
- 2006-Present: Faculty Search Committees (6 times)
- 2006-Present: Judge at CoSE Showcase (several times)

UC Berkeley

- 2010-Present: Berkeley initiative for Global Change Biology (BiGCB)
- 2011-Present: Integrative Biology Undergraduate Achievement Committee
- 2011: Integrative Biology FTE Committee
- 2011: "Faculty on Parade" Seminar Speaker

Other Service

- Grant Panelist, Hawaii REAP 2007, 2008 (Hawaii EPSCoR)
- Outside International Examiner of Graduate Theses: University of Hong Kong (2006), University of Queensland (2011), Stellenbosch University (2011)
- Outside Promotion/Tenure Reviewer for Indiana State University, University of Nevada Las Vegas, Portland State University

INVITED SYMPOSIUM PRESENTATIONS AND SEMINARS:

Invited Symposium Presentations

- 2011 Society for Experimental Biology, Glasgow Scotland.
- 2010 American Physiological Society Intersociety Meeting: Global change and global science: comparative physiology in a changing world, Colorado USA
- 2008 Society for Experimental Biology, Annual Meeting: *Symposium on Climate Change, From Genes to Ecosystems*. Marseille, France. Invited Symposium speaker
- 2008 Society for Experimental Biology, Focus Meeting: *Macrophysiology*. University of Plymouth U.K., Co-organizer and speaker.
- 2008 Society for Integrative and Comparative Biology, Symposium: *Crustacean Genomics: a 2-year progress report*. Symposium Organizer and Speaker
- 2008 NorCal Society of Toxicologists and Chemists Annual Meeting, invited plenary speaker.
- 2007 International Conference on Marine Ecophysiology at Hong Kong: *Coping with change: physiological responses of marine organisms*. Keynote Speaker
- 2006 Ecological Society of America, Symposium: *Thermal physiology as a biogeographic determinant: historical and mechanistic perspectives*. Symposium Organizer and Speaker
- 2006 Society for Integrative and Comparative Biology, Symposium: *Crustacean Genomics and Proteomics*. Invited Speaker
- 2004 International Conference of Comparative Physiology & Biochemistry in Africa (ICCPB), Symposium: *Thermal Physiology, latitudinal adaptations and limitations*. Invited Speaker
- 2002 Society for Integrative and Comparative Biology: Symposium: *Physiological Ecology of Rocky Intertidal Communities*. Invited Speaker

Invited Research Seminars

- 2014 Aarhus University, Denmark; University of California Berkeley Museum of Paleontology; California Academy of Sciences
- 2012 University of British Columbia; CSU Monterey Bay
- 2011 University of Plymouth, England
- 2010 Scripps Institute of Oceanography UCSD; Hopkins Marine Station Stanford University; Dominican University, San Rafael.
- 2009 UC Davis
- 2008 UC Berkeley; University of Plymouth, England
- 2007 Colorado State University
- 2006 Bodega Marine Laboratory UC Davis; University of California Merced
- 2005 Bodega Marine Laboratory UC Davis; Romberg Tiburon Center San Francisco State University
- 2004 University of South Carolina; University of Southern California; University of Hawaii
- 2003 University of California Berkeley; University of Nevada Las Vegas; University of Hawaii

2002 University of Nevada Las Vegas; University of British Columbia; Sonoma State University;
University of California Santa Barbara; Romberg Tiburon Center San Francisco State University
2000 Oregon Institute of Marine Biology University of Oregon

ACTIVE MEMBERSHIP IN PROFESSIONAL SOCIETIES:

The Society for Integrative and Comparative Biology, SICB (since 1990)
American Physiological Society (since 2004)

STUDENT & POSTDOCTORAL MENTORING:

Undergraduate Students (@ SFSU unless otherwise noted)

2014 Mikaela McCarthy (@ Berkeley), king crab qPCR
2014 Symphony Yu (@ Berkeley, working @ RTC), juvenile porcelain crab biology
2013-present Carl Hendrickson (@ Berkeley), insect ecophysiology and clam ocean acidification.
2012 Carley Turner, REU summer, crab gene expression
2012 Heather Schneider, REU summer, crab swelling disorder etiology
2012-present Joseph Gapuz (@ Berkeley), insect husbandry and ecophysiology
2012-2013 Cecilia Tran (@ Berkeley), RNA purification
2012 Margaret Sy (@ Berkeley), RNA purification
2012 Trevor Allen (@ Berkeley), insect ecophysiology (honors project)
2012 Jacqueline Nguyen (@ Berkeley), insect ecophysiology, RNA purification
2012 Shima Maddah, crab embryonic development
2011 Leore Geller, REU Summer, Juvenile Dungeness crab distribution
2011 Audrey Nickles: Crab larval Biology
2010-2011 Jean-Claude Breach: Ocean acidification effects on porcelain crabs
2010-2011 Garren Piccolo: Crab larval biology
2011 Cheyenne Snavelly: Expression of extensin-like transcripts in crabs
2011 Shamaila Khan: Enzymology of clams
2011 Jackie Prasad (URM): Enzymology of clams
2009 Elise Latz
2009 Anteo Quiroz
2008-2009 Paula Robinson: Porcelain crab gene expression
2008-2009 Daria Ronges: (→ Dental School, Tufts) Porcelain crab gene expression
2007-2008 Claudia Tomas Miranda (URM; CIRM MS program, UCSF-SFSU)
2007 Dianna Baldwin, REU Summer (URM, Denetclaw Lab, SFSU)
2006 Morrigan Shaw (URM)
2006 Eddy Mazmanian, (Aquarium system, → PhD program at Stanford, NASA)

Masters Students (@ SFSU unless otherwise noted)

2013-present Carley Turner, crab juvenile responses to ocean acidification and warming.
2013-present Bandele Okelana, environmental stress and aging
2013-present Tomas "TJ" Yockachonis, crab embryonic responses to ocean acidification
2012-present Tessa Page: Crab functional genomics in OA
2012-present Elize Papineau (URM): Daphnia functional genomics
2011-present Rachel Dorfman: Coccolithophore biology
2011-2013 Claudia Tomas Miranda Ramos: Crab functional genomic response to thermal stress
2009-present Haydee Medina (URM): inducible stabilization of lactate dehydrogenase by exercise training
2009-2013 Adam Paganini: invasive clam metabolic responses to salinity, crab larval thermal physiology, crab responses to pH and temperature variability
2009-2012 Lina Ceballos (URM), TREE fellow: crab larval responses to ocean acidification
2009-2012 Hayley Carter: crab larval responses to ocean acidification
2009-2011 Chelsea Xi: Synergistic responses to thermal and salinity stress in *Daphnia pulex*.
2008-2010 Andrea Cayenne (URM) NIH-MARC Scholar: protein-protein interaction, metabolon
2007-2010 Tyler Waterson (did not complete degree): Coral responses to thermal stress
2008-2009 Yoshihiro Tanaka: Computer science student, worked on functional genomics database

- 2006-2008 Eric Galassi: crab gill tissue transcriptome responses to thermal stress
 2005-2006 Beth Moore (San Francisco State University): crab ecophysiology, did not finish
 2006 Joanna Lipinski (San Francisco State University): neurophysiology, did not finish
 2006 Laurie Kara (San Francisco State University): clam ecophysiology, did not finish
 2003-2006 Kristen Teranishi (University of Hawaii): crab transcriptome responses to thermal stress –
 PhD @ UCSF Fall 06, NSF Grad Fellowship
 2003 Amber Rais (Stanford University): snail membrane fluidity

Doctoral Students (@ Berkeley Integrative Biology unless otherwise noted)

- 2012-present Eric Armstrong (co-sponsor Mary Power)
 2010-2012 David Hurt (co-sponsor David Lindberg, did not finish)
 2006-2010 Michael DeSalvo (Committee Member, University of California Merced), coral thermal
 physiology, transcriptomics, and bleaching
 2004-2009 Daniel Barshis (Co-mentor, University of Hawaii) coral thermal physiology, protein
 biomarkers of stress.

Postdoctoral Fellows (@ SFSU unless otherwise noted)

- 2014-present Dr. Alex Gunderson: thermal biology and LDH structure/function relationships in crabs.
 2012-present Dr. Scott Fay: transcriptomics and ecophysiology of king crabs and aquatic insects. (@
 Berkeley)
 2008-2013 Dr. Nathan Miller: crab larval thermal physiology, invasive clam physiological
 acclimatization
 2008-2011 Dr. Stephane Lefebvre: ocean acidification and climate change impacts on phytoplankton.
 Presently research scientist at J. Craig Venter Institute
 2010-2011 Dr. Pascale Rossignol: crab functional genomic responses to thermal acclimation,
 mechanisms of protein stabilization. Presently research scientist at Yale Univ.
 2005-2009 Dr. Abderrahmane Tagmount: crab functional genomics, transcriptomic responses to
 thermal acclimatization, protein stabilization mechanisms. Presently a Research Scientist
 in Chris Vulpe's laboratory, UC Berkeley

High School Interns

- 2014 Nick Lawlor: porcelain crab embryonic biology
 2013 Ricky Olivares: *Tridacnid* clam physiology
 2012 Jeanne Shepherd: Coccolithophore thermal performances
 2011 Sophie McGuinness: *Corbula* feeding preferences

SCIENTIFIC OUTREACH AND MEDIA:

Video Media:

National Geographic, *Strange Days on Planet Earth, Episode 2 "The One Degree Factor"* (2005)
<http://www.pbs.org/strangedays/episodes/onedegreefactor/experts/onedegree.html>

Written Media (selected):

- Jolagh C. 2010. "SF State professor gets crabby for climate," Golden Gate Xpress
<http://xpress.sfsu.edu/archives/life/014751.html>
 Mason B. 2007. "Animas on the Edge," Contra Costa Times
http://www.contracostatimes.com/ci_5434865?source=pkg&nclink_check=1
 Perlman D. 2003. "Warmer seas a threat to coastal crabs."
http://articles.sfgate.com/2003-07-04/news/17498771_1_crabs-world-s-climate-water-temperature

Public Lectures:

- California Academy of Sciences, March 15, 2014
 University of California Berkeley, Museum of Paleontology. March 1, 2014
 League of Women Voters, Berkeley CA. Nov. 2012.
 COMPASS, *Ocean Acidification*. June 2010 Eureka and Fort Bragg, CA
<http://mendocoastcurrent.wordpress.com/2010/06/12/rising-ocean-acidity-a-threat-to-marine-life/>
 Sonoma Environmental Film Festival, *Ocean Acidification* panelist, January 2011.

Secondary and/or Elementary Education:

The Berkeley School, April 2013, October 2013. Plankton Fest!
Alhambra Senior High School, Martinez CA May 2011. Ocean Acidification
Teacher Workshop @ RTC on Ocean Acidification, Fall 2009.
LiMPETS Teacher Professional Development Workshop, Spring 2009

Magazine Articles (grey literature):

Page T and JH Stillman. 2013. The Quest for Coral Color: Understanding coral bleaching. *Reef Hobbyist Magazine* 7(1): 16-21
Stillman JH. 2011. "What Makes Corals Colorful? A scientific introduction" *Reef Hobbyist Magazine* 5(2): 10-15
Stillman JH. 2010. "Ocean Acidification" *Reef Hobbyist Magazine* 4(1): 22-25
Stillman JH. 2009. "Feeling Crabby" *Reef Hobbyist Magazine* 3(9): 8-13.

Selected Media Coverage of published papers:

Benner et al. 2013:

NY Times: <http://dotearth.blogs.nytimes.com/2013/08/26/papers-find-mixed-impacts-on-ocean-species-from-rising-co2/>
AAAS EurekaAlert: http://www.eurekaalert.org/pub_releases/2013-08/sfsu-cop082013.php
Science Daily: <http://www.sciencedaily.com/releases/2013/08/130826100118.htm>
Science Newsline: <http://www.sciencenewsline.com/summary/2013082600050014.html>
Environmental Research Web: <http://environmentalresearchweb.org/cws/article/yournews/54464>
Marin Independent Journal: http://www.marinij.com/tiburonbelvedere/ci_23948971/tiburon-romberg-study-shows-algae-may-have-positive
A Spanish Media Outlet: http://www.teinteresa.es/tierra/encargadas-carbono-adaptan-cambios-climaticos_0_981502090.html
DecodedScience: <http://www.decodedscience.com/warm-acidic-bath-will-change-ocean-impact-coccolithophores/36129>