

**CURRICULUM VITAE  
BONNIE J. BECKER**

Associate Professor of Marine Ecology  
Interdisciplinary Arts & Sciences  
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**EDUCATION**

Ph.D. Oceanography, Scripps Institution of Oceanography, University of California, San Diego, La Jolla, CA, 2005. Coadvisors: Paul K. Dayton and Lisa A. Levin.

A.B. Biology (Honors), Harvard University, Cambridge, MA, 1995. Advisor: James McCarthy

**POSITIONS**

Present-2013 Associate Director of Strategic Initiatives, Interdisciplinary Arts and Sciences Program, University of Washington, Tacoma (Tacoma, WA)  
Present-2013 Associate Professor of Marine Ecology, Interdisciplinary Arts and Sciences Program, University of Washington, Tacoma (Tacoma, WA)  
2013-2006 Assistant Professor of Marine Ecology, Interdisciplinary Arts and Sciences Program, University of Washington, Tacoma (Tacoma, WA)  
2006-1998 Marine Biologist, Cabrillo National Monument, National Park Service (San Diego, CA)  
1998-1997 Marine Biologist/Project Manager, Kinnetic Laboratories (Santa Cruz, CA)  
1997-1995 Laboratory Technician, State University of New York at Stony Brook (Stony Brook, NY) (Periodic during time period)  
1996-1995 Marine Biologist, Institute for the Conservation of Tropical Environments (Tulear, Madagascar)

**PUBLICATIONS**

*Peer Reviewed Articles:*

Carson H, López-Duarte P, Cook G, Fodrie F, **Becker B**, DiBacco C, Levin L. 2013. Temporal, spatial, and interspecific variation in geochemical signatures within fish otoliths, bivalve larval shells, and crustacean larvae. *Marine Ecology Progress Series* 473:133–148.  
**Becker, B.J.**, Behrens, M.D., Shevalier, Y.R.A.\*\*, Henzler, C.M., Hoaglund, E.A., and Lemay, B.K.\* 2012. Determining distribution and size of larval Pacific geoduck clams (*Panopea generosa*) in Quartermaster Harbor (Washington, USA) using a novel sampling approach. *Journal of Shellfish Research* 31(3):711-723.  
Lopez-Duarte PC, Carson HS, Cook GS, Fodrie FJ, **Becker BJ**, DiBacco C, Levin LA. 2012. What controls connectivity? An empirical, multi-species approach. *Integrative and Comparative Biology*. 52:511–524.

- Fodrie, F.J., **Becker, B.J.**, Levin, L.A., Gruenthal, K., and McMillan, P. 2011. Connectivity clues from short-term variability in settlement and geochemical tags of mytilid mussels. *Journal of Sea Research* 65(1):141-150.
- Ford, H.L., Schellenberg, S.A., **Becker, B.J.**, Deutschman, D.L., Dyck, K.A., and P.L. Koch. 2010. Evaluating the skeletal chemistry of *Mytilus californianus* as a temperature proxy: Effects of microenvironment and ontogeny. *Paleoceanography* 25: PA1203, 14pp. doi:10.1029/2008PA001677
- Becker, B.J.** and P.A. Selkin. 2009. Marine reserve design: simulating stakeholder options. *Teaching Issues and Experiments in Ecology*. Volume 6. <http://tiee.ecoed.net>
- Becker, B.J.**, Levin, L.A., Fodrie, F.J., McMillan, P.A. 2007. Complex larval connectivity patterns among marine invertebrate populations. *Proceedings of the National Academy of Science*. 104(9):3267-3272.
- Sagarin, R.D., Ambrose, R.F., **Becker, B.J.**, Engle, J.M., Kido, J., Lee, Steven F., Miner, C. Melissa, Murrery, Steven N., Raimondi, Peter T., Richards, D., Roe, C. 2007. Ecological impacts on the limpet *Lottia gigantea* populations: human pressure over a broad scale on island and mainland intertidal zones. *Marine Biology* 150:399-413.
- Becker, B.J.**, Fodrie, F.J., McMillan, P., and L.A. Levin. 2005. Spatial and temporal variation in trace elemental fingerprints of mytilid mussel shells: a precursor to invertebrate larval tracking. *Limnology and Oceanography* 50:48-61.
- Roy, K., Collins, A.G., **Becker, B.J.**, Begovic, E., and J.M. Engle. 2003. Anthropogenic impacts and historical decline in body size of rocky intertidal gastropods in southern California. *Ecology Letters* 6:205-211.

*Book Reviews:*

David Hall, BENEATH COLD SEAS: THE UNDERWATER WILDERNESS OF THE PACIFIC NORTHWEST, Pacific Northwest Quarterly, 2013

*Peer-Reviewed Technical Reports:*

**Becker, B.J.** 2006. Status and Trends of Ecological Health and Human Use of the Cabrillo National Monument Rocky Intertidal Zone (1990- 2005). Natural Resource Technical Report NPS/PWR/CABR/NRTR—2006/03. National Park Service, Seattle, Washington. 195 pp.

*Theses:*

**Becker, B.J.** 2005. The regional population variability and larval connectivity of mytilid mussels: conserving the populations of Cabrillo National Monument (San Diego, California, USA). Ph.D. Dissertation, University of California, San Diego.

*Book Chapters:*

**Becker, B.J.**, Tegner, M.J., and P.K. Dayton. 2004. Tidepools and Kelp Forests: Nearshore Environments. In *Understanding the Life of Point Loma*. Cabrillo National Monument Foundation, San Diego, CA.

*Technical Reports:*

- Becker, B.J.**, Ruffner, J.\*, and J. Patterson\*. 2011. Biodiversity Survey of Benthic Communities of Commencement Bay. Submitted to Citizens for a Healthy Bay. 26pp. Available at: [http://courses.washington.edu/commbay/uwt\\_biodiversity\\_survey\\_comm\\_bay\\_2011.pdf](http://courses.washington.edu/commbay/uwt_biodiversity_survey_comm_bay_2011.pdf)
- Becker, B.J.**, Gruber, J.\*, Little, C.\*, Buck, S.\*, Crawford, M.\*, Griswold, Z.\*, Irving, T., Johnson, S., Patterson, K., Prakash, S., and B. Mason. 2009. Commencement Bay (Tacoma, WA) Nearshore Salmon Habitat Assessment: Final Report Submitted to Pierce County. 62pp. Available at: [http://courses.washington.edu/commbay/salmon/UWT\\_comm\\_bay\\_salmon\\_hab\\_assess\\_final.pdf](http://courses.washington.edu/commbay/salmon/UWT_comm_bay_salmon_hab_assess_final.pdf)

- Becker, B.J.** 2006. Cabrillo National Monument Rocky Intertidal Monitoring Program Updated Protocol June 2006. Cabrillo National Monument, San Diego, CA. 66pp.
- Becker, B.J.** 2003. Cabrillo National Monument Rocky Intertidal Monitoring Program Ten Year Performance Review (1990-1999): Summary Report. Cabrillo National Monument, San Diego, CA. 24pp.

*Popular Media:*

- Becker, B.J.** 2012 and 2010. “CHB and UWT Join Forces to Hunt Baby Geoduck”, “The Baby Geoduck: A Progress Report”, and “We Did It! CHB and UWT Capture the Elusive Baby Geoduck”. Tidings: The Quarterly Newsletter from Citizens for a Healthy Bay.
- Becker, B.J.** 2004. Rocky intertidal monitoring partnerships aid management at Cabrillo National Monument. National Park Service Natural Resource Science Year in Review—2003: 50-51.
- Becker, B.J.** 2001. “New Approach Needed to Avert Fish Extinction”, letter to the editor in the San Diego Union-Tribune.
- \*Indicates undergraduate student coauthor, \*\*Indicates graduate student coauthor

**PRESENTATIONS**

*Invited and Notable Academic Presentations:*

- 2014 **Becker, B.J.**, Behrens, M.D., Allen, B., Vadopalas, B., Parker, H.\*, Neuneker, K., Holt, K., Stutz, M.\*, Hintz, M.\*, Young, J.\*, McDonald, E. What early life history tells us about restoration success in Olympia oysters (Oral presentation at the Salish Sea Ecosystem Conference in Seattle, WA)
- 2013 **Becker, B.J.** Surveying benthic invertebrates in Puget Sound to engage interdisciplinary undergraduate students in conservation biology (Oral presentation at the Western Society of Naturalists Meeting in Ventura, CA)
- 2013 **Becker, B.J., Huff, T.** Natural History in the Classroom (Session co-organizers at the Western Society of Naturalists Meeting in Ventura, CA)
- 2012 **Becker, B.J.**, Behrens, M.D., Henzler, C., Hoaglund, E., Shevalier, Y.\*\*, LeMay, B.\* Determining distribution and size of larval Pacific geoduck clams (*Panopea generosa*) in Puget Sound (Washington, USA) using a novel tracking approach. (Presentation at Western Society of Naturalists Meeting in Seaside, CA).
- 2012 **Becker, B.J.**, Behrens, M.D., Henzler, C., Hoaglund, E., Shevalier, Y.\*\*, LeMay, B.\* Novel tracking technique indicates importance of rare events driving larval connectivity of geoduck clams in Puget Sound, WA. (Poster presentation at the South Sound Science Symposium in Shelton WA).
- 2012 **Becker, B.J.** Insights on marine population connectivity from direct larval tracking methods. (Departmental Seminar at Oregon Institute of Marine Biology, Coos Bay OR). Invited seminar
- 2012 **Becker, B.J.**, Behrens, M.D., Henzler, C., Hoaglund, E., Shevalier, Y.\*\*, LeMay, B.\*, Moore, A.\*, Rauschl, E.J.\* Determining distribution and size of larval Pacific geoduck clams (*Panopea generosa*) in Puget Sound (Washington, USA) using a novel tracking approach. (Poster at The 10th International Larval Biology Symposium in Berkeley, CA).
- 2012 Levin, L.A., **Becker, B.J.**, Carson, H.S., Cook, G.S., DiBacco, C., Fodrie, F.J., Lopez-Duarte, P.C. What Controls Connectivity? A place-based, multi-species approach. (Presenting author at The 10th International Larval Biology Symposium in Berkeley, CA). Invited plenary presentation, presenting author.
- 2012 **Becker, B.J.**, Behrens, M.D., Henzler, C., Hoaglund, E., Shevalier, Y.\*\*, LeMay, B.\*, Staggers,

- S.\*, and J. Brokenshire\*. Novel tracking technique indicates importance of rare events driving larval connectivity of geoduck clams in Puget Sound, WA. (Presentation at the National Shellfisheries Association Annual Meeting in Seattle, WA). Invited presentation.
- 2011 **Becker, B.J.**, Behrens, M.D., Henzler, C., Hoaglund, E., Shevalier, Y.\*\*, LeMay, B.\*, Staggers, S.\*, and J. Brokenshire\*. Novel tracking technique indicates importance of rare events driving larval connectivity of geoduck clams in Puget Sound, WA. (Poster Presentation at the Western Society of Naturalist Meeting in Vancouver, WA).
- 2011 **Becker, B.J.** CSI: Larval Edition, Using novel approaches to track invertebrate larvae in a complex ocean. (Science Programs' Seminar Series at Washington State University, Vancouver WA). Invited seminar.
- 2011 **Becker, B.J.** CSI: Larval Edition, Using novel approaches to track invertebrate larvae in a complex ocean. (University of Puget Sound Thompson Hall Science & Mathematics Seminar, Tacoma WA). Invited seminar.
- 2009 **Becker, B.J.**, Gruber, J.\*, Behrens, M.D., Henzler, C.M., Hoaglund, E., and Y. Shevalier\*\*. 2009. Determining geoduck larval distribution in Quartermaster Harbor, Washington using adaptive trapping and FISH-CS. (Poster presentation at Western Society of Naturalists Meeting in Monterey, CA).
- 2008 **Becker, B.J.** The problem of the needle in the haystack: population connectivity of newly-settled mussels. (Pacific Lutheran University Biology Seminar in Tacoma, WA). Invited seminar.
- 2006 **Becker, B.J.** Our mussel detective story: what is happening to the mussels of Cabrillo National Monument? (MARINE Taxonomic Workshop and Annual Meeting in San Diego, CA). Keynote address.
- 2006 **Becker, B.J.**, Levin, L.A., Fodrie, F.J., McMillan, P. Population connectivity of newly settled mussels. (VII Larval Biology Meeting in Coos Bay, OR).
- 2006 **Becker, B.J.**, Levin, L.A., Fodrie, F.J., McMillan, P. Determining natal origins and population connectivity of newly-settled mytilid mussels using trace elemental fingerprinting. (Ocean Sciences Meeting of ASLO in Honolulu, HI). Contributed paper.
- 2006 **Becker, B.J.** The larval connectivity of mytilid mussels: conserving the population of Cabrillo National Monument. (Seminar at CEA-CREST, California State University Los Angeles in Los Angeles, CA). Invited seminar.
- 2006 **Becker, B.J.** The larval connectivity of mytilid mussels: using elemental fingerprinting to determine natal origins. (John and Mary Louise Riley Seminar Series, Bodega Marine Laboratories, University of California Davis in Bodega Bay, CA). Invited seminar.
- 2004 **Becker, B.J.**, Levin, L.A., Fodrie, F.J., McMillan, P. Determining natal origins of mytilid mussels using *in situ* larval culturing and elemental fingerprinting. (VI Larval Biology Meeting in Hong Kong). Winner, Best Student Presentation.
- 2004 **Becker, B.J.** Determining natal origins of mytilid mussels using *in situ* larval culturing and elemental fingerprinting. (CICESE Weekly Seminar, University of Ensenada, Mexico). Invited seminar.
- 2004 **Becker, B.J.** Using trace element concentrations in mytilid mussel shells to determine larval sources (Scripps Ecology Luncheon Seminar, University of California, San Diego), Invited seminar.
- 2003 **Becker, B.J.**, Levin, L.A., Fodrie, F.J., McMillan, P. Using trace element concentrations in mytilid mussel shells to determine larval sources. (Western Society of Malacologists Annual Meeting in Los Angeles, CA). Invited presentation.
- 2002 **Becker, B.J.** Historical perspectives on natural history and ecology (Western Society of Naturalists Annual Meeting in Monterey, CA), Co-organizer of symposium.
- 2002 **Becker, B.J.**, Levin, L.A., Fodrie, F.J., McMillan, P. Use of trace element concentrations in

- mytilid mussel shells to determine larval sources. (Western Society of Naturalists Annual Meeting, 2002 in Monterey, CA). Honorable mention, Best Student Paper.
- 2002 **Becker, B.J.** Cabrillo National Monument: How monitoring can be used to form and inform a marine reserve. (West by Northwest Meeting of the George Wright Society in Seattle, WA). Invited presentation.
- 2002 **Becker, B.J.**, Levin, L.A., Fodrie, F.J., McMillan, P. Use of trace element concentrations in mytilid mussel shells to determine larval sources (V Larval Biology Meeting in Vigo, Spain)
- 2000 **Becker, B.J.** Making a difference now—A student’s perspective on careers in applied ecology. (Western Society of Naturalists in Portland, OR). Invited workshop presentation.

*Selected Teaching and Outreach Presentations:*

- 2013 **Becker, B.J.** Saper Vedere: How invertebrate zoology informs art and vice versa. (University of Puget Sound Art and Science Café series at the Tacoma Art Museum)
- 2013 **Becker, B.J.** The secret world of geoduck clam larvae. (Pacific Science Center’s Science Café series in Tacoma, WA).
- 2011 **Becker, B.J.** Surveying benthic invertebrates in Commencement Bay to engage interdisciplinary students in conservation biology. (Salish Sea Ecosystem Conference in Vancouver, BC).
- 2011 **Becker, B.J.** Using a survey of benthic invertebrates in Commencement Bay to engage interdisciplinary majors in applied conservation biology. (UW Scholarship of Teaching and Learning Conference, Seattle WA).
- 2011 Cline, E., **Becker, B.J.**, Gogarten, J. Developing and using hands-on, authentic scientific inquiry-based exercises. (Workshop at IAS Teaching Forum, Tacoma WA).
- 2010 **Becker, B.J.** Where do I come from? How we find and study the larvae of marine animals. (Presentation at Seattle Aquarium Volunteer Training, Seattle WA). Invited presentation.
- 2010 **Becker, B.J.** Nearshore habitat assessment of Commencement Bay. (Puget Creek Restoration Society, Tacoma, WA). Invited public seminar.
- 2010 **Becker, B.J.**, DeTray, S., Pendras, M., Ishem, L., and Jolly, N. Incorporating service learning into your curriculum. (Workshop at IAS Teaching Forum, Tacoma WA). Workshop organizer.
- 2010 Fox-Dobbs, K., Wimberger, P., and **Becker, B.J.** Using stable isotopes to quantify the input of nutrients from salmon carcasses into local streams: collaboration between students at UPS and UWT. (Presentation at Puget Sound Faculty Institute Reunion Meeting, Tacoma WA). Co-presenter.
- 2010 **Becker, B.J.** Using Microsoft Access. (UWT Teaching and Learning Roundtable Workshop, Tacoma WA). Workshop organizer.
- 2009 **Becker, B.J.**, B. Mason, Buck, S.\*, Little, C.\*, Crawford, M.\*, Griswold, Z.\*, Gruber, J.\*, Irving, T., Johnson, S., Patterson, K., and S. Prakash. 2009. Creating a nearshore salmon habitat assessment in Commencement Bay as an undergraduate service learning experience. (Poster presentation at 2009 South Sound Science Symposium, Shelton, WA and at 2009 Pacific Salmonid Recovery Conference, Seattle, WA).
- 2008 **Becker, B.J.**, and P.A. Selkin. The Udubia Debate: An educational exercise simulating marine reserve design. (Western Society of Naturalists Annual Meeting, Vancouver, B.C.).
- 2008 Cline, E., **Becker, B.J.** and Wetzstein, L. Active learning exercises in majors biology and interdisciplinary non-majors science courses: the Catching Cheaters and Marine Reserves projects. (Workshop at the Northwest Biological Instructors Organization Meeting, Salem, OR.). Co-organizer.
- 2008 **Becker, B.J.** Musings on women in marine ecology and oceanography. (Guest Lecture for Linda Dawson’s Women in Science Class, UWT).
- 2008 **Becker, B.J.** Marine reserve design. (Guest Lecture for Nancy Lane’s Environmental Science Class, Green River Community College).

- 2007 **Becker, B.J.** Population connectivity of newly-settled mussels. (Guest Lecture for Friday Harbor Laboratories Larval Biology Course taught by Drs. Richard Strathmann and Danny Grunbaum).
- 2005 *On the Edge of Land and Sea, The Tidepools of Cabrillo National Monument.* (Consultant for and appeared in educational film shown twice daily at Cabrillo National Monument visitor center).
- 2005 *Tidepools.* (Interview appeared in episode of “California’s Gold” starring Huell Howser, a travel show on PBS).
- 2003 *Cabrillo.* (Interview appeared in episode of “California’s Golden Parks” starring Huell Howser, a travel show on PBS).
- 2003 *Between a Rock and a Hard Place.* (Interview in an instructional video produced by Crystal Cove State Park and the Marine Life Refuge Coalition of Orange County).

*Selected Student Presentations:*

- 2014 Clements, A.\* , Hintz, M.\* Mussel cultivation as a mitigation tool for eutrophic waters in Puget Sound, Washington (Poster presentation at the Salish Sea Ecosystem Conference in Seattle, WA)
- 2014 Neuneker, K.\*; Holt, K.\*; Parker, H.C..\* ; **Becker, B.J.**, Vadopalas, B., Allen, B., Behrens, M.D. Olympia oyster settlement in Fidalgo Bay, WA (Poster presentation at the Salish Sea Ecosystem Conference in Seattle, WA)
- 2013 Neuneker, K.\*; Holt, K.\*; Parker, H.C..\* ; **Becker, B.J.**, Vadopalas, B., Allen, B., Behrens, M.D. Olympia oyster settlement in Fidalgo Bay, WA (Poster presentation at the Western Society of Naturalists Meeting in Ventura, CA)
- 2012 McCartha, M.\* , Gawel, J., **Becker, B.J.** Metallothionein as an indicator of metal stress in *Axinopsida serricata* (Poster Presentation at the Western Society of Naturalists in Seaside, CA).
- 2012 Parker, H.C.\* , **Becker, B.J.**, Vadopalas, B., Allen, B., Behrens, M.D. Olympia oyster larval distribution in a small restored bay in Puget Sound using passive tube traps and qPCR (Poster Presentation at the Western Society of Naturalists in Seaside, CA).
- 2012 McCartha, M.\* , Gawel, J., **Becker, B.J.** Metallothionein as a bio-indicator of metal toxicity in Commencement Bay (Poster Presentation at the South Sound Science Symposium in Shelton, WA).
- 2011 Shevalier, Y.\*\* , LeMay, B.\* , **Becker, B.J.**, Behrens, M.D., Henzler, C., and E. Hoaglund. Determining Pacific geoduck clam larval distribution relative to oceanographic parameters of Quartermaster Harbor. (Poster Presentation at the Salish Sea Ecosystem Conference in Vancouver, B.C.).
- 2011 Staggers, S.\* , **Becker, B.J.**, Behrens, M.D., Henzler, C., Hoaglund, C., Shevalier, Y.\*\* 2011. Size frequency distribution of geoduck in Quartermaster Harbor, Washington. (Poster Presentation at the Salish Sea Ecosystem Conference in Vancouver, B.C.).
- 2010 Shevalier, Y.\*\* , **Becker, B.J.**, Behrens, M.D., Lemay, B.\* , Eccles, J.\* , Staggers, S.\* , Baird, K.\* , Troyer, S., Maltese, M., Henzler, C.M., Hoaglund, E. Distribution of Pacific geoduck larvae in Quartermaster Harbor, WA. (Poster presentation at the Western Society of Naturalists Annual Meeting in San Diego CA).
- 2010 Shevalier, Y.\*\* , **Becker, B.J.**, Behrens, M.D., Lemay, B.\* , Eccles, J.\* , Staggers, S.\* , Baird, K.\* , Troyer, S., Maltese, M., Henzler, C.M., Hoaglund, E. Determining geoduck larval distribution in Quartermaster Harbor using adaptive trapping and a novel molecular tool. (Poster presentation at the South Sound Science Symposium in Shelton, WA).
- 2008 Julich, H\* . and **B.J. Becker.** An evaluation of conditions in *in situ* mesocosms. (Poster presentation at Western Society of Naturalists Annual Meeting in Vancouver, B.C.).
- 2008 McCormick, L.\* , **Becker, B.J.**, and J. Roach\*. The study of *Dendraster excentricus* larval growth and survival in ballast tank simulations. (Poster presentation at Western Society

- of Naturalists Annual Meeting Poster in Vancouver, B.C.).
- 2007 Roach, J.\* and **Becker, B.J.** The effects of particulate food deprivation and the presence of dissolved organic material on the survival, growth, and development of *Mytilus galloprovincialis* larvae. (Western Society of Naturalists Annual Meeting in Ventura, CA).
- 2007 Julich, H.\* and B.J. Becker. In-situ culturing of larval sand dollars, *Dendraster eccentricus*, in Friday Harbor, Washington. (Poster presentation at Western Society of Naturalists Annual Meeting in Ventura, CA).

\*Indicates undergraduate student co-presenter, \*\*Indicates graduate student co-presenter

## TEACHING EXPERIENCE

*University of Washington, Tacoma:*

Course #	Course Name	Quarter	Type
TESC 120	Introductory Biology I	Winter 2009	Lower division required lab
TESC 200	Environmental Seminar	Spring 2009 Spring 2011 Winter 2014	Seminar course
TESC 232	Issues in Conservation Biology	Spring 2007 Winter 2008 Fall 2009 Summer 2011	Environmental Studies core requirement/Non-majors lecture course
TESC 310	Environmental Research Seminar	Winter 2013	Majors bookend skills and preparation course
TESC 332	Conservation Biology in Practice	Spring 2009 Winter 2011 Winter 2012	Major elective lab
TESC 340	Ecology and Its Applications	Fall 2006 Fall 2007 Fall 2009 Fall 2011 Spring 2012 Fall 2012	Environmental Science core requirement/Lab course
TESC 402	History and Ecology of Biological Invasions	Fall 2007 Spring 2009	Major/Non-major elective lecture
TESC 410	Environmental Senior Seminar	Spring 2013	Majors bookend skills and preparation course
TESC 438	Marine Invertebrates	Winter 2010 Winter 2013	Major elective lab
TESC 442	Marine Ecology	Spring 2007 Spring 2008 Spring 2011 Spring 2013	Major field class
TESC 495	Environmental Research Experience	Winter 2012 Spring 2013	Major capstone course
TCORE 111	Everybody Eats: Food in the Landscape	Winter 2007	Interdisciplinary freshman general education core

- TESC 499: Undergraduate Research
  - Kendra Baird (Summer 2010); William Chan (Winter and Spring 2013); Ashley Clements (Winter and Spring 2013); Brian Compton (Winter 2010); Joy Douangsouphonh (Winter, Spring 2010); Jolene Eccles (Spring 2010, Summer 2010, Spring 2011); Alex Gipe (Spring 2011, Summer 2011); Jamie Gruber (Summer, Fall 2009); Lindsay Hook-France (Spring, Summer 2007); Michael Hoover (Summer 2011, Summer 2012); Hannah Julich (Fall 2007, Winter 2008); Brenda Lemay (Spring 2010, Summer 2010, Spring 2011); Jessica Maves (Spring 2011); Michelle McCartha (Fall 2012); Lindsay McCormick (Winter, Spring, Fall 2008, Winter, Spring 2009); Atalie Moore (Winter, Spring 2012); Dana Olsen (Spring 2011); Jay Patterson (Spring 2010); Hannah Parker (Fall 2012, Spring 2013); Jorge Quinteros (Winter, Spring 2009); Elisa Rauschl (Winter, Spring 2012); Janet Roach (Fall 2006, Winter, Spring 2007); Amanda Ruby (Spring 2008); Shayla Staggers (Spring 2010, Summer 2010, Fall 2010, Spring 2011); Elishia Stefanowski (Winter 2008, Spring 2008); Keegan Stromberg (Spring 2011); Jennifer Young (Summer 2013)
- TESC 496: Internship
  - Ranging from 1-7 per quarter
- TESC 498: Directed Readings
  - Kendra Baird (Spring 2011); Lindsay Hook-France (Summer 2007); Michael Hoover (Summer 2012); Hannah Julich (Spring 2007); Jay Patterson (Spring 2011); Telena Welsh (Spring 2008); Mario Williams (Winter 2010)
- TIAS 590: Graduate Independent Study; TIAS599: Graduate Research; TIAS 700 : Thesis
  - Yvonne Shevalier (Fall 2009, Winter, Spring 2010, Summer 2011) Thesis title: “Determining Pacific geoduck clam (*Panopea generosa*) larval distribution relative to oceanographic physical parameters in Quartermaster Harbor (QMH), Puget Sound, Washington”

*Prior to 2006:*

- Graduate level seminar in Population Connectivity at Scripps Institution of Oceanography, La Jolla, CA
  - Winter 2005, 12 students (co-taught with Lisa Levin, Biological Oceanography)
- Undergraduate research mentor at the University of California, San Diego, La Jolla California
  - Fall 2000, Steven Nelman, 199 Undergraduate Research Credits; Summer 1999, Robin Pelc, Scripps Undergraduate Research Fellowship; 1999, Valerie Growney, Paid Undergraduate Assistant; Summer 2000, Jennie Navarro, Scripps Undergraduate Research Fellowship; 2000-2003, Liliana (Fajardo) Mellor, Research Intern, Paid Undergraduate Assistant; Summer 2003, Evan Fox, Undergraduate Research Intern; Summer 2003, Ryan Darrow, Undergraduate Research Intern; Summer 2003, Alex Garson, Undergraduate Research Intern
  - In addition, mentored Jeff Allen, Krista (Pease) Mendelsohn, Liliana (Fajardo) Mellor, Sarah Heintzelman, and Michelle Gregory as undergraduate interns through the National Park Service
- Undergraduate Teaching Assistant at State University of New York at Stony Brook (Stony Brook, NY)
  - 1996-1997, independently led undergraduate-level Inorganic Chemistry Laboratory, assisted graduate-level Chemical Oceanography course
- Environmental Education Intern at Newfound Harbor Marine Institute at SeaCamp (Big Pine Key, FL)
  - Fall 1995, taught lecture- and field-based 3-day course on tropical marine ecology and conservation for students in grades 4-8.

*Professional Development in Teaching:*

2014 iTech Fellows 3.0: Innovation in Course Redesign, UW Tacoma (7 days) (upcoming)  
 2011-12 UWT Writing Fellows Institute (3 quarters)



2009	Curriculum for the Bioregion Faculty Institute on Puget Sound (1 week)
2006	UW Faculty Fellows Program (1 week)
2006	First Annual UWT Core Camp (1 week)
Multiple	UWT Teaching and Learning Center-sponsored events, including “Teams and Technology”, “Using Newspapers in the Classroom”, and “Technology Based Teaching Assessment” (half day)

## GRANTS AND AWARDS

### *Funded and Pending Grants and Awards*

- Washington Seagrant Preproposal, “Recovery of the native Olympia oyster, *Ostrea lurida*, in Northern Puget Sound: measuring the larval import to and export from a restored subpopulation” (as PI with Henry Carson from Washington Department of Fish and Wildlife, Marco Hatch from Northwest Indian College, Brian Allen and Betsy Peabody from Puget Sound Restoration Fund, and Brent Vadopalas from UW School of Aquatic and Fisheries Science, \$220,914, full proposal invited and in review)
- IAS Funds to Support Research, “Dissemination of Geoduck Research Results” (\$3700, 2012), “Olympia Oyster Larval Distribution in Fidalgo Bay: A Study Using Passive Tube Traps and qPCR (\$5000, 2012, co-PI with Hannah Parker\*), Recovery of the Native Olympia oyster, *Ostrea lurida*, in Northern Puget Sound (\$8,755, 2013, to serve as matching funds pending funding of Seagrant proposal); “Analysis of Fidalgo Bay oyster samples” (as co-PI with Hannah Parker, \$3300, submitted)
- Russell Family Foundation Proposal, “Mussel power: engaging communities and improving urban water quality through nutrient bioextraction” (as co-PI with Kristin Rasmussen from Pacific Shellfish Institute, Betsy Peabody from Puget Sound Restoration Fund, and Jonathan Davis from Baywater, Inc.; \$71,701, 2012)
- UWT Summer Research Writing Camp (1 month salary, 2012)
- UWT Writing Fellows Institute (\$500, 2011-12)
- Royalty Research Fund, “Determining geoduck larval behavior and dispersal in situ using a novel molecular tool and adaptive trapping” (\$39,580, 2010)
- University of Washington, Tacoma Chancellor’s Fund for Research and Scholarship Award, “Pilot study: determining geoduck larval behavior and dispersal in situ using a novel molecular tool and adaptive trapping” (\$4991, 2009)
- University of Washington, Tacoma Center for Leadership and Social Responsibility Grant, “Conservation in Practice course development” (\$1000, 2008; \$1000, 2010).
- University of Washington, Tacoma Founders Endowment Grant, “Environmental Science and Studies Seminar Series” (\$2628, 2008)
- University of Washington, Tacoma Chancellor’s Fund for Research and Scholarship Award, “The early life history of razor clams (*Siliqua patula*)” (\$5000, 2007)
- DIALOG VII Symposium Participant, funded by the National Science Foundation and the American Society for Limnology and Oceanography (2005)
- Cabrillo National Monument Foundation Grants (9 totaling \$19,950, 2001-2005)
- Best Student Presentation at the VI Larval Biology Meeting, Hong Kong (2004)
- Fager Award for Student Service at the Scripps Institution of Oceanography (2004)
- Homeland Foundation Grant (\$3600, 2004)
- National Park Service “On the Spot Award” for exceptional performance (2004)
- Small Parks NRPP Grant from the National Park Service (\$4000, 2004)
- Funding for Western Society of Naturalists student symposium (various sources, \$8000, 2002)
- Coastal Environmental Quality Initiative Graduate Fellowship (\$10,000, 2002)
- National Park Service “On the Spot Award” for exceptional performance (2002)
- Honorable Mention, Best Student Paper at the Western Society of Naturalists Meeting (2002)

- Switzer Environmental Fellowship (10 in California, \$13,000, 2001)
- Sierra Club Bob Davey Memorial Scholarship (1 in San Diego, \$1000, 2001)
- NASA/Maryland Sea Grant Fellowship in Remote Sensing (Summer Research at University of Maryland, \$3000, 1997)
- Dorothy and Ward Melville Fellowship (Summer Research at SUNY Stony Brook, 1994)
- John Harvard Scholarship (1994)

## SERVICE

### *Selected service to the Tacoma community*

- Member, Board of Directors (2011-present), Secretary, Board of Directors (2012-present), Co-Founder and Member, Communications Committee (2012-present), and Policy Technical Committee (2008-present) of the Citizens for a Healthy Bay
- Member of Environmental Science Advisory Group of the Foss Waterway Seaport (2010-2011)
  - Paid advisor for inaugural Foss Waterway Seaport Summer Camp for middle school children (July 2010); Regular teacher on ship-based education trips (2012)
  - Taught on Foss Waterway Seaport's Marine and Environmental Science Expedition (2012)
- Member, Tacoma Food Co-operative Steering Committee (2009)
- Advisor, Bellarmine Preparatory School Marine Chemistry Class (5 students from 2009-2010)

### *Selected Service to the Scientific Community*

- Founder and Organizer of Scripps Species ID Club (2001-2004)
- Multi-Agency Rocky Interitidal Monitoring Network (MARINE)—Member of Science Committee (1997 to present)
- At the editor's request, reviewer for multiple papers submitted to *Limnology and Oceanography*, *Journal of Biogeography*, *Journal of Experimental Marine Biology and Ecology*, *Journal of Shellfish Research*, *Geochimica et Cosmochimica Acta*, *Marine Ecology Progress Series*, *Journal of Aquatic Science* (only reviews after 9/06 given)
- At the editor's request, reviewer for American Fisheries Society publication, *Future of Fisheries: Perspectives for Emerging Professionals*
- At the Program Director's request, recent reviewer for grant proposals submitted to Maine Sea Grant, NSF Ocean Sciences Division, Graduate Women in Science, Netherlands Organisation for Scientific Research, National Park Service George Melendez Wright Climate Change Fellowship (paid panel member), California SeaGrant South Coast MPA Baseline Program (paid reviewer), MIT Seagrant, National Geographic Society
- Member of the following professional societies:
  - Western Society of Naturalists
  - National Shellfisheries Association

### *Selected service to the University community*

- Leadership of the following IAS committees and workgroups: IAS Faculty Governance 2.0: Bylaws Writing Sub-committee (co-lead, summer 2013), Hiring LEAN Process Improvement (lead, summer 2013), Team Curriculum (lead), Web Review Committee (lead)
- Member of following IAS committees and workgroups: Executive Leadership Committee, IAS Shared Leadership Team, IAS Faculty Council (*ex officio*), IAS Committee of Chairs (*ex officio*), IAS Curriculum Committee (*ex officio*)
- Member of Steering Committee of the Doris Duke Conservation Scholars Program
- Founder and Chair, Daycare Taskforce (2010-present)
- Member of the following UWT Committees: Strategic Enrollment Management (2013-present), Faculty Admissions Task Force (2014-present); Member, Faculty Affairs Committee (2009-2011); IAS Representative of Executive Council (2012-2013)

- Member, search committees for professional positions, UWT
  - Biology Lecturer (search and interview, 5 positions, 2014); Environmental Studies (interview, 2014), Program Operations Analyst (screening and interview, 2014), Director of Administrations and Operations (interview, 2014); Chemistry 3-year Lecturer (co-chair, 2013); Mathematics 3-year Lecturer (chair, 2013); Chemistry 3-year Lecturer (co-chair, 2012); Technical Writing (interview; 2012); Biochemistry (interview; 2012); Environmental Studies Advisor (interview; 2011); Biology Lecturer (2011); Laboratory Coordinator (2009); Laboratory Coordinator (2008); Biology Lecturer (2008); Environmental Organic Chemist (2006-07); Port of Tacoma Chair (2007)
- Member, reappointment committee: Hyoung Lee
- Founder and Coordinator, Environmental Science/Studies Weekly Seminar (2008-2009)
- Member, award committee for Dolph S. Kleiner Memorial Scholarship (2012); Mary Cline Research Scholarship (2011); IAS Fred Haley Writing Awards (2008)
- Member, expert panel for Math and Science Leadership Program (2012)
- Presenter, Science on the Sound (2012)