

Curriculum Vitae

Michael S. Berger

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Education

- 2004 Ph.D., Marine Biology, University of Oregon, Oregon Institute of Marine Biology.
 Advisor, Richard Emlet.
*Dissertation: Living along an estuarine gradient: juvenile performance, reproductive patterns, and induced heat-shock protein expression in the barnacle *Balanus glandula*.*
- 1998 B.S., Ecology and Evolutionary Biology, Summa cum Laude, University of Connecticut.

Professional Experience

- 2015 - Present **Senior Instructor**, Washington State University Vancouver.
 2014 - Present **Undergraduate Education Coordinator**, WSU Vancouver.
 2008 - 2015 **Instructor**, Washington State University Vancouver.
 2007 **Postdoctoral Research Associate**, University of Southern California.
 2006 - 2007 **Visiting Assistant Professor**, University of California, Irvine.
 2006 **Visiting Lecturer**, University of Oregon, Oregon Institute of Marine Biology.
 2006 **Whiteley Scholar**, Whiteley Center, Friday Harbor Laboratories.
 2004 - 2005 **Postdoctoral Research Fellow**, Bamfield Marine Sciences Centre.
 2004 - 2012 **Visiting Lecturer**, Bamfield Marine Sciences Centre.
 2000 - 2004 **Research Assistant**, University of Oregon.
 1998 - 1999 **Teaching Assistant**, University of Oregon.
 1995 - 1998 **Research Assistant**, University of Connecticut.

Teaching Experience

- Introductory Biology: Cell Biology and Genetics** (Biol 107), WSU Vancouver (**2011 – Present**).
- Marine Invertebrate Communities** (Biol 486), WSU Vancouver (**2011 – Present**).
- Environment, Human Life, & Sustainability** (Envr Sci 101), WSU Vancouver (**2009 – present**).
- General Biology for non-majors** (Biol 102), WSU Vancouver (**2008 – 2014**).
- Invertebrate Biology** (Biol 322), WSU Vancouver (**2008 – Present**).
- Senior Seminar** (Envr Sci 491), WSU Vancouver (**2009 – 2012**).
- Marine Biology** (Biol 308), WSU Vancouver (**2008 – 2010**).
- Marine Ecology** (MRNE 430), Bamfield Marine Sciences Centre (**2004 – 2012**).
- Marine Conservation Biology** (Bio 190), University of California, Irvine (**Spring 2007**).
- Invertebrate Zoology** (Bio 190), University of California, Irvine (**Winter 2007**).
- Marine Environmental Issues** (Bio 190), University of California, Irvine (**Winter 2007**).
- Marine Biology** (Bio 11), University of California, Irvine (**Fall 2006 and Spring 2007**).
- Marine Ecology** (Bio 190), University of California, Irvine (**Fall 2006**).
- Invertebrate Zoology** (BI 451/551), University of Oregon, OIMB (**Summer 2006**).

Publications

- Berger, M.S.** 2009. Reproduction of the intertidal barnacle *Balanus glandula* along an estuarine gradient. *Marine Ecology*. 30: 346-353.
- Berger M.S.** and Jelinski, D.E. 2008. Spatial patterns of maternal investment in *Strongylocentrotus franciscanus* along a marine-terrestrial gradient. *Marine Ecology Progress Series*. 634: 119-127.
- Berger M.S.** and Emlet R.B. 2007. The heat-shock response of the upper intertidal barnacle *Balanus glandula*: thermal stress and acclimation. *Biological Bulletin*. 212: 232-241.
- Berger, M.S.**, Darrah, A., and Emlet, R.B. 2006. Spatial and temporal variability of early post-settlement survivorship and growth in the barnacle *Balanus glandula* along an estuarine gradient. *Journal of Experimental Marine Biology and Ecology*. 336: 74-87.
- Berger, M.S.** and Young, C.M. 2006. Physiological response of the cold-seep mussel *Bathymodiolus childressi* to acutely elevated temperature. *Marine Biology*. 149: 1397-1402.

Conference proceedings (published)

- Berger, M.S.** 2015 Integrating the software package “R” in skill-based introductory biology labs to enhance student graphing skills. *Tested Studies for Laboratory teaching, Proceedings of the Association for Biology Laboratory Education*. 36: 15 - 18.
- Berger, M.S.** 2014. Utilizing the software package “R” to integrate graphical and statistical analysis in undergraduate laboratory courses. *Tested Studies for Laboratory teaching, Proceedings of the Association for Biology Laboratory Education*. 35: 414.

Other Publications

- Berger, M.S.** 2013. Environment and Human Life laboratory manual. Second edition. Washington State University Vancouver. XanEdu Press.
- Berger, M.S.** and Rogers, E.L. 1998. A guide to common ascidian and bryozoan recruits of Long Island Sound. University of Connecticut, Department of Marine Sciences.

University Service

- 2015 – Present WSU Vancouver Common Read Book Selection Committee.
- 2015 – Present WSU Vancouver Biology Curriculum Committee.
- 2015 – Present WSU Vancouver Strategic Planning Committee.
- 2015 – Present School of the Environment Undergraduate Studies Committee.
- 2015 Service and Activities Fee Committee.
- 2014 – Present Critical Literacies Achievement Success Program (CLASP) - affiliated faculty.
- 2014 Introductory Biology (Biol 106) Laboratory Transformation Committee.
- 2014 Service and Activities Facilities Fee Allocation Committee.
- 2014 Search committee member for Instructional and Classroom Support Technician.
- 2013 – Present WSU Vancouver Faculty Organization Executive Committee.
- 2013 – 2014 College of Arts and Sciences Assessment Committee.
- 2013 – Present WSU Vancouver Environmental Science & Sustainability Club faculty advisor.
- 2012 – 2013 School of the Environment Undergraduate Assessment Committee.
- 2011 Search committee member for AP International Admissions Counselor position.
- 2011 Search committee member for AP Admissions Counselor position.
- 2010 Search committee member for AP Admissions Counselor position.
- 2009 – 2011 Campus read book selection committee.

Awards and Fellowships

- 2005 Pacific Institutes of Marine Science Fellowship.
 2002 - 2003 NSF Integrative Graduate Education and Research Traineeship Fellowship.
 2001 - 2004 National Estuarine Research Reserve Graduate Research Fellowship.
 2000 Paul and Helen Weiser Memorial Scholarship, University of Oregon.
 2000 The Cancer Federation Scholarship, University of Oregon.
 1999 Fernald Fellowship, Friday Harbor Laboratories, University of Washington.
 1996 University Scholar Award, University of Connecticut.

Additional Coursework and Educational Experience

- 2003 Biology of Deep-Sea Animals, University of Oregon.
 2001 NSF Antarctic Biology Training Course, McMurdo Station, Antarctica.
 1999 Comparative Invertebrate Embryology, University of Washington Friday Harbor Lab.

Peer-Mentoring

- 2015 Patricia Sayer, Instructor (mentoring committee member)
 2015 Gunjan Gakhar, Adjunct Instructor (faculty mentor)

Graduate Research Mentoring

- 2009 – 2011 Jennifer Blaine, MS student (committee member).

Undergraduate Research Mentoring

- 2013 Elena Leavitt - Invertebrate identification field guide.
 2012 – 2015 Kendra Munn and Ulli Wypler - Symbiont abundance in marine anemones.

Research Presentations**Invited Papers:**

Berger, M.S. 2015. Utilizing the software package “R” to generate graphs and perform statistical analyses in undergraduate laboratory courses. 37th annual Association for Biology Laboratory Education conference, Boston, Massachusetts.

Berger, M.S., Cantelow, V., and Wright, M. 2013. What’s going on at the coast: Undergraduate student research in invertebrates you know and love. WSU Vancouver Library Encounter Research Conversation.

Berger, M.S. 2006. The intertidal from a barnacle’s perspective: thermal stress and juvenile performance. Friday Harbor Laboratories Seminar.

Berger, M.S. 2004. Living in an estuary: juvenile performance and reproductive ecology of the barnacle *Balanus glandula* along an estuarine gradient. Bamfield Marine Sciences Centre Seminar.

Contributed Papers:

Berger, M.S. 2014. Integrating the software package “R” in skill-based introductory biology labs to enhance student graphing skills. 36th annual Association for Biology Laboratory Education conference, Eugene, Oregon.

Berger, M.S. 2006. Variation of life-history traits and stable isotope ratios in *Strongylocentrotus franciscanus* along a wave exposure gradient. Western Society of Naturalists 87th Annual Meeting, Redmond, Washington.

- Berger, M.S.** 2004. Juvenile performance and reproductive ecology of the barnacle *Balanus glandula* along an estuarine gradient. VI International Larval Biology Conference, Hong Kong.
- Berger, M.S.** 2004. Juvenile performance of the barnacle *Balanus glandula* along an estuarine gradient. Society for Integrative and Comparative Biology Annual Meeting, New Orleans, La.
- Berger, M.S.** 2003. Reproductive ecology of the intertidal barnacle *Balanus glandula* along an estuarine gradient. Western Society of Naturalists 84th Annual Meeting, Long Beach, California.
- Berger, M.S.** 2002. Juvenile performance of the barnacle *Balanus glandula* along an estuarine gradient. Western Society of Naturalists 83rd Annual Meeting, Monterey, California.
- Berger, M.S.** 2000. Adaptive phenotypic plasticity in the feeding structure of the sand dollar, *Dendraster excentricus*, in relation to time to metamorphosis and juvenile size. IV International Larval Biology Meetings, Santa Cruz, California.
- Berger, M.S.** and Whitlatch, R.B. 1998. Predator-prey relations between the green crab, *Carcinus maenas* and three small gastropods, *Mitrella lunata*, *Anachis lafresnayi*, and *Anachis avara*. 27th Annual Benthic Ecology Meeting, Melbourne, Florida.

Selected Contributed Posters:

- Wright, M., Cantelow, V., and **Berger, M.S.** 2014. The effect of wave exposure on *Mytilus californianus* mussel shell morphology. WSU Vancouver Research Showcase, Vancouver, Washington.
- Berger, M.S.** 2013. Utilizing the software package “R” to integrate graphical and statistical analysis in undergraduate laboratory courses. 35th annual Association for Biology Laboratory Education conference, Calgary, Alberta, Canada.
- Abu Alia, S., Boneski, R., Cantelow, V., Ellis, E., Fox, C., Hernandez, D., Johnson, C., Jones, D., Kobylnik, M., Leavitt, E., Miller, J., Mudryy, D., Nematian, N., Nguyen, T., Phillips, C., Pravisay, K., Sarkinen, N., Southafeng, S., Spears, M., Stepniak, J., Yelverton, E., **Berger, M.S.** 2013. Identification guide of common invertebrates in the Pacific Northwest. WSU Vancouver Research Showcase, Vancouver, Washington.
- Berger, M.S.** and Young, C.M. 2003. Physiological response of the cold seep mussel *Bathymodiolus childressi* to thermal stress. 10th Deep-Sea Biology Symposium, Charleston, Oregon.
- Berger, M.S.** 2002. Intraspecific variation of induced heat-shock protein expression in the intertidal barnacle, *Balanus glandula*. Integrative Graduate Education and Research Traineeship Symposium, Bloomington, Indiana.
- Berger, M.S.** 2002. Inducible heat-shock protein expression in two barnacle species, *Balanus glandula* and *Balanus crenatus*. Society for Integrative and Comparative Biology Annual Meeting, Anaheim, California.
- Hofmann, G.E., Buckley, B.A., **Berger, M.S.**, Moran, A., Temple, G.K. and Zehmer, J.K. 2001. Studies of heat shock protein expression in Antarctic notothenioid fishes: a collaborative study. Scientific Committee on Antarctic Research International Biology Symposium, Amsterdam, Netherlands.

Reviews

Books and journals:

- 2015 – *Life: The Science of Biology*, 11th edition (book)
- 2014 – *Marine Ecology Progress Series; Comparative Biochemistry and Physiology*
- 2013 - *Crustaceana*
- 2011 - *Marine Biology: Function, Biodiversity, Ecology*, 4th edition (book)
- 2010 – *Marine and Freshwater Behaviour and Physiology*
- 2009 – *Journal of Experimental Marine Biology and Ecology; Functional Ecology*
- 2007 – *Invertebrate biology*
- 2006 – *American Naturalist*
- 2004 – *Marine Ecology Progress Series*

Other:

- 2013 – *MasteringBiology*, Pearson Publishing

Professional development

- 2014 – Critical Literacies Achievement Success Program (CLASP) workshop, WSU.
- 2013 – Six week on-line course development workshop. WSU Vancouver.
- 2012 – Diane O’Dowd workshop series: teaching large classes. Washington State University.
- 2011 – Proposal development workshop by Dr. Eric Shulenberger. WSU Vancouver.