

JAMES L. DIMOND

University of Washington
School of Aquatic and Fishery Sciences
Seattle, WA, USA

Western Washington University
Shannon Point Marine Center
Anacortes, WA, USA

Education

University of Vermont (Burlington, VT)	Natural Resources	B.S. 2002
University of Rhode Island (Kingston, RI)	Biology	M.S. 2006
University of Washington (Seattle, WA)	Aquatic & Fishery Sci.	Ph.D. expected 2019

Positions Held

2018-present	Instructor , Department of Environmental Sciences, Western Wash. Univ.
2012-present	Marine Technologist , Shannon Point Marine Center, Western Wash. Univ.
2008-2013	Research Technologist , Shannon Point Marine Center, Western Wash. Univ.
2005-2007	Biological Collector , Marine Biological Laboratory, Woods Hole, Mass.
2003-2005	Graduate Teaching Assistant , University of Rhode Island
2004	Research Technician , U.S. EPA National Coastal Assessment, Rhode Island
2002-2003	Research Assistant , University of Rhode Island

Publications

Dimond JL, Gamblewood SK, Roberts SB (2017) Genetic and epigenetic insight into morphospecies in a reef coral. *Molecular Ecology* 26:5031-5042 [Article link](#)

Macrander JC, **Dimond JL**, Bingham BL, Reitzel AM (2017) Transcriptome sequencing and characterization of *Symbiodinium muscatinei* and *Elliptochloris marina*, symbionts found within the aggregating sea anemone *Anthopleura elegantissima*. *Marine Genomics* 37:82-91 [Article link](#)

Dimond JL, Orechovesky S, Oppenheimer J, Rodríguez-Ramos J, Bingham BL (2017) Photophysiology and hydrogen peroxide generation of the dinoflagellate and chlorophyte symbionts of the sea anemone *Anthopleura elegantissima*. *Journal of Experimental Marine Biology and Ecology* 489:43-47 [Article link](#)

Dimond JL, Roberts SB (2016) Germline DNA methylation in reef corals: patterns and potential roles in response to environmental change. *Molecular Ecology* 25:1895-904 [Article link](#)

Bingham BL, **Dimond JL**, Muller-Parker G (2014) Symbiotic state influences life-history strategy of a clonal cnidarian. *Proceedings of the Royal Society of London B* 281:20140548 [Article link](#)

Dimond JL, Pineda RR, Ramos Z, Bingham BL (2013) Relationships between host and symbiont cell cycles in sea anemones and their symbiotic dinoflagellates. *Biological Bulletin* 225:102-112 [Article link](#)

Dimond JL, Bingham BL, Muller-Parker G, Oakley CA (2013) Symbiont physiology and population dynamics before and during symbiont shifts in a flexible algal-cnidarian symbiosis. *Journal of Phycology* 49:1074-1083 [Article link](#)

Dimond JL, Kerwin AH, Rotjan RD, Sharp K, Stewart FJ, Thornhill DJ (2013) A simple temperature-based model predicts the upper latitudinal limit of the temperate coral *Astrangia poculata*. *Coral Reefs* 32:401-409 [Article link](#)

Dimond JL, Holzman BJ, Bingham BL (2012). Thicker host tissues moderate light stress in a cnidarian endosymbiont. *Journal of Experimental Biology* 215: 2247-2254 [Article link](#)

Dimond JL, Bingham BL, Muller-Parker G, Wuesthoff K, Francis L (2011) Seasonal stability of a flexible algal-cnidarian symbiosis in a highly variable temperate environment. *Limnology and Oceanography* 56:2233-2242 [Article link](#)

- Bingham BL, Freytes I, Emery M, **Dimond J**, Muller-Parker G (2011) Aerial exposure and body temperature of the intertidal sea anemone *Anthopleura elegantissima*. Invertebrate Biology 130:291-301 [Article link](#)
- Rotjan RD, **Dimond JL** (2010) Discriminating causes from consequences of persistent parrotfish corallivory. Journal of Experimental Marine Biology and Ecology 390:188-195 [Article link](#)
- Carrington E, Moeser GM, **Dimond J**, Mello JP, Boller ML (2009) Seasonal disturbance to mussel beds: Field test of a mechanistic model predicting wave dislodgment. Limnology and Oceanography 54:978-986 [Article link](#)
- Dimond J**, Carrington E (2008) Symbiosis regulation in a facultatively symbiotic temperate coral: zooxanthellae division and expulsion. Coral Reefs 27:601-604 [Article link](#)
- Dimond J**, Carrington E (2007) Temporal variation in the symbiosis and growth of the temperate scleractinian coral *Astrangia poculata*. Marine Ecology Progress Series 348:161-172 [Article link](#)
- Rotjan RD, **Dimond JL**, Thornhill DJ, Leichter JJ, Helmuth B, Kemp DW, Lewis SM (2006) Chronic parrotfish grazing impedes coral recovery after bleaching. Coral Reefs 25:361-368 [Article link](#)

Technical Reports

- Dimond JL**, Bingham BL (2010) Cliffside Beach woody debris phase III: analysis of sediments and benthic invertebrates following natural relocation of woody debris to adjacent areas. Washington Dept. of Ecology report.
- Dimond JL**, Bingham BL (2009) Cliffside Beach wood removal phase II: baseline monitoring. NOAA/Whatcom County Marine Resources Committee report.

Selected Presentations

- Dimond J**, Roberts S (2018) Comparative response of DNA methylation to environmental change in the reef coral *Porites astreoides* and its algal endosymbionts. Contributed talk. International Symbiosis Society Congress, Corvallis, OR
- Dimond J**, Roberts S (2018) Response of DNA methylation to environmental change in the reef coral *Porites astreoides*. Contributed talk. Marine Evolution 2018, Strömstad, Sweden
- Dimond J**, Bingham B, Muller-Parker G, Francis L (2014) Cnidarian-algal symbioses in the Pacific Northwest. Invited talk. Skagit Valley College, Mt. Vernon, WA
- Dimond J**, Holzman B, Bingham B (2012) Do thicker host tissues reduce symbiont light stress in cnidarian-algal symbioses? Poster session. 2012 ASLO Ocean Sciences Meeting, Salt Lake City, UT
- Dimond J**, Holzman B, Bingham B (2011) The role of the host in the photophysiology of *Elliptochloris marina*, chlorophyte symbiont of *Anthopleura* spp. sea anemones. Contributed talk. 2011 Western Society of Naturalists meeting, Vancouver, WA
- Dimond J**, Bingham B, Muller-Parker G, Wuesthoff K, Francis L (2009) Seasonal stability of *Anthopleura elegantissima* symbiotic algal populations. Contributed talk. 2009 Western Society of Naturalists meeting, Seaside, CA
- Dimond J**, Freytes I, Gutierrez A, Francis L (2009) Environmental gradients and zonation of two algal symbionts in an intertidal sea anemone. Poster session. 2009 Northwest Algal Symposium, Coupeville, WA
- Dimond J**, Carrington E (2005) Symbiosis and growth of the temperate coral *Astrangia poculata*. Invited talk. Marine Resources Center, Marine Biological Laboratory, Woods Hole, MA
- Dimond J**, Carrington E (2005) Symbiosis and growth of the temperate coral *Astrangia poculata*. Contributed talk. 2005 Benthic Ecology Meeting, Williamsburg, VA
- Dimond J**, Carrington E (2005) Symbiosis and growth of the temperate coral *Astrangia poculata*. Contributed talk. 2005 American Academy of Underwater Sciences meeting, Mystic, CT
- Dimond J**, Mello J, Gomez-Chiarri M, Carrington E (2003) Dynamics of parasite prevalence in *Mytilus edulis* on Rhode Island rocky shores. Poster session. 2003 Benthic Ecology Meeting, Groton, CT

Service and Outreach

Peer review (2007-present): Revista de Biología Tropical, Symbiosis, PLoS One, Proceedings of the Royal Society B, Marine Ecology, Journal of Experimental Marine Biology and Ecology, Molecular Ecology, Communications Biology, Marine Ecology Progress Series, Biological Bulletin

Guest editorship: Northeastern Naturalist (Winter 2017)

Shannon Point Marine Center Diving Control Board (2012-present)

Marine Biological Laboratory Diving Control Board (2007)

Guest speaker at science camp for children of Skagit County migrant workers (2011, 2012)

Shannon Point Marine Center representative at Compass2Campus, an introduction to college opportunities for at-risk youth in local communities (2012, 2013)

Teaching

University of Rhode Island

BIO 457 Marine Ecology Lab: instructor; implemented curriculum (2005)

BIO 101 Introductory Biology: lab instructor (2003-2005)

BIO 262 Introduction to Ecology: teaching assistant, mainly grading (2004)

Western Washington University

ESCI 426 Marine Invertebrates and Their Environment: instructor (2018), substitute instructor (2010-2013)

Instructor of annual undergraduate workshops on flow cytometry and primary productivity (2009-2015)

Mentoring

Undergraduate

Sanoosh Gamblewood (Western Wash. University), Research Experiences for Undergraduates (2016)

Glauco Rivera (University of Puerto Rico, Mayagüez), Research Experiences for Undergraduates (2017)

Nhung Nguyen (Hobart and William Smith Colleges), Research Experiences for Undergraduates (2018)

Assisted in the mentoring of 12 additional students with Dr. Brian Bingham from 2009 – 2015.

Graduate

Natalie Coleman (Western Wash. University), graduate committee member (2017-2018)

Assisted in the mentoring of 4 additional students with Dr. Brian Bingham from 2009 – 2015.

Awards

2016 Hall Conservation Genetics Research Award

2016 International Society for Reef Studies Graduate Fellowship

2014 John E. Halver Fellowship, UW School of Aquatic and Fishery Sciences

2014 ARCS Foundation Seattle Chapter Fellowship

2003 American Academy of Underwater Sciences Scholarship

Professional Qualifications

2014 Licensed Boat Captain – U.S. Coast Guard Merchant Mariner Credential, 50 Ton Master

2007 Divemaster – Professional Association of Diving Instructors (PADI)

2000 Scientific Diver – American Academy of Underwater Sciences (AAUS)