

JACQUELINE L. PADILLA-GAMIÑO

School of Aquatic and Fishery Sciences, University of Washington
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EDUCATION

Postdoctoral studies at University of California Santa Barbara (2011-2013)

Physiological and Evolutionary adaptations to Ocean Acidification.

Advisor: Gretchen D. Hofmann

Ph. D. Oceanography, University of Hawai'i at Manoa (2011)

Coral reproduction and ecophysiology. Advisor: Ruth D. Gates

M. S. Biology, California State University, Northridge (2005)

Thermal Ecophysiology of Algae. Advisor: Robert C. Carpenter

B. S. Oceanography, Universidad Autónoma de Baja California (2001)

Magna Cum Laude (GPA: 3.8)

PROFESSIONAL EXPERIENCE

- 2016- present Assistant Professor** – University of Washington
- 2014-2016 Assistant Professor** – California State University Dominguez Hills
- 2011-2013 Postdoctoral research fellow** - Lead postdoctoral research on NSF-funded project to study ocean acidification. University of California, Santa Barbara
- 2010-2011 Graduate research assistant** - Coral Reef Ecosystem Studies (CRES) Deep Reef Project. University of Hawai'i
- 2010-2011 Graduate assistant** - Education and Outreach. Center for Microbial Oceanography: Research and Education (C-MORE), University of Hawai'i
- 2007-2009 Sea Grant graduate trainee** - Identifying indicators of land based pollution stress in the biology of corals. University of Hawai'i/Hawai'i Institute of Marine Biology
- 2005-2009 Graduate research assistant** - Field studies in coral reproduction and sedimentation effects on coral biology. University of Hawai'i
- 2005 Junior researcher** - Geomorphology and biogeography at the Arrecifes de Cozumel National Park (summer). Cozumel, Mexico
- 2002-2004 Graduate research assistant** - Coupling between physiology and the physical environment using algae as a model system. California State University, Northridge
- 2001-2002 Research technician** - Work on disease epidemic affecting corals through the Caribbean, seed dispersal and metapopulation analysis, analysis of nutrients. University of North Carolina (UNC) Chapel Hill
- 2000 Research assistant** - Genetics of the blue shrimp, important commercial species in Mexico, Universidad Autónoma de Baja California Ensenada, Mexico
- 2000 Research assistant** - Oceanographic data processing of the Gulf of California. Universidad Autónoma de Baja California, Ensenada, Mexico
- 1999 Research assistant** - Maintenance and culture of the kelp *Macrocystis pyrifera* during the juvenile stage. Instituto de Investigaciones Oceanológicas (IIO) Ensenada, Mexico

- 1999 **Research assistant** - Support in isolation and purification of cytotoxins and harvesting of organisms. Instituto de Ciencias Marinas y Limnología (ICMyL) – UNAM. Pto. Morelos, Mexico
- 1999 **Research assistant** - Search of active substances against cancer from benthic organisms from Baja California. Universidad Autónoma de Baja California, Ensenada, Mexico
- 1998 **Research assistant** – Aquaculture to conserve endangered species *Totoaba macdonaldi*. Universidad Autónoma de Baja California, Ensenada, Mexico

PUBLICATIONS

h - index = 16, ResearchGate Score = 28.9

underlined=co-first author, *=graduate student, §=postdoc, †=undergraduate

- Brown T§, Jesse Zaneveld, Dylan Sonett*, **Padilla-Gamiño JL** (*in review*) Characterization of the microbiome and immune response in corals with chronic Montipora white syndrome. *Molecular Ecology*.
- [33] Bednaršek N, Calosi P, Feely R, Ambrose R, Byrne M, Chan K, Dupont S, **Padilla-Gamiño JL**, Spicer JI, Kessouri F, McLaughlin K, Roethler M*, Sutula M, Weisberg SB (*accepted*) Synthesis of Thresholds of Ocean Acidification Impacts on Calcifying Echinoderms. *Frontiers in Marine Science*.
- [32] Bates E*, Alma L*, Ugrai T, Gagnon A, Maher M, McElhany P, **Padilla-Gamiño JL** (*in press*) Evaluation of the effect of local water chemistry on trace metal accumulation in Puget Sound shellfish shows that concentration varies with species, size, and location. *Frontiers of Marine Science*.
- [31] Grottoli AG, Toonen RJ, van Woesik R, Vega Thurber R, Warner ME, McLachlan RH, Price J, Bahr KD, Baums IB, Castillo K, Coffroth MA, Cunnig R, Dobson K, Donahue M, Hench J, Iglesias-Prieto R, Kemp D, Kenkel CD, Kline D, Kuffner IB, Matthews J, Mayfield A, **Padilla-Gamiño JL**, Palumbi S, Voolstra CR, Weis VM, Wu H (*accepted*) Increasing comparability among coral bleaching experiments. *Ecological Applications*.
- [30] Dundas SJ, Levine A, Lewison RL, Doerr A, White C, Galloway AWE, Garza C, Hazen EL, **Padilla-Gamiño JL**, Samhuri JF, Spalding A, Stier A, Hill T, White JW (2020) Integrating Oceans into Climate Policy: Any Green New Deal Needs a Splash of Blue. *Conservation Letters*.
- [29] Martinelli JC§, Lopes HM†, Jimenez-Hidalgo I, King TL, **Padilla-Gamiño JL**, Rawson, Spencer L*, Williams J, Wood C. (2020) Confirmation of the shell-boring oyster parasite *Polydora websteri* (Polychaeta: Spionidae) in Washington State, USA. *Scientific Reports* 10:3961.
- [28] Martinelli JC§, Phan S, Luscombe CK, **Padilla-Gamiño JL** (2020) Low incidence of microplastic contaminants in Pacific oysters from the Salish Sea. *Science of the Total Environment* 715:136826.

- [27] Alma L*, Kram K, Holtgrieve GW, Arambula A†, Fiamengo C*, **Padilla-Gamiño JL** (2020) Ocean Acidification and warming affect the physiology and microbial diversity of the Purple-Hinge Rock Scallop. *Comparative Biochemistry and Physiology, Part A*. 240:110579.
- [26] Axworthy J*, **Padilla-Gamiño JL** (2019) Microplastics ingestion by thermally stressed reef building corals. *Scientific Reports* 9:18193.
- [25] Price NN, Muko S, Legendre L, Steneck R, van Oppen M, Albright R, Ang Put Jr., Carpenter RC, Chui A, Fan TY, Gates RD, Harii S, Kitano H, Kurihara H, Mitarai S, **Padilla-Gamiño JL**, Sakai K, Suzuki G, Edmunds PJ (2019) Global biogeography of coral recruitment: tropical decline and subtropical increase. *Marine Ecology Progress Series*, 621:1-17.
- [24] **Padilla-Gamiño JL**, Roth MS, Rodrigues LJ, Bradley CJ, Bidigare RR, Gates RD, Smith CM, Spalding HL (2019) Ecophysiology of mesophotic reef-building corals in Hawaii is influenced by symbiont-host associations, trophic plasticity and photoacclimatization processes. *Limnology and Oceanography* 64:1980-1995. ****Top downloaded paper in L&O 2018-2019****
- [23] Spalding HL, Bowen B, Copus, J, Kosaki R, Longenecker K, Montgomery A, **Padilla-Gamiño JL**, Parrish F, Roth MS, Toonen R, Pyle R. (2019) Mesophotic Coral Ecosystems in Hawaii. In Puglise, K, Loya, Y and Bridge, T (Eds.). *Coral Reefs of the World: Mesophotic Ecosystems*. Springer.
- [22] **Padilla-Gamiño JL**, Gaitan-Espitia JD, Kelly MW, Hofmann GE (2016) Physiological plasticity and local adaptation to ocean acidification in a calcareous alga: An ontogenic and geographic approach. Invited for special issue in *Evolutionary Applications* 9(9): 1043-1053.
- [21] Kelly MW, **Padilla-Gamiño JL**, Hofmann GE (2015) Ocean acidification affects body size, but not gene expression in larvae of the California mussel (*Mytilus californianus*). *ICES Journal of Marine Science* doi:10.1093/icesjms/fsv184
- [20] Evans TG, **Padilla-Gamiño JL**, Kelly M, Pespeni MH, Chan F, Menge BA, Gaylord B, Hill TM, Russell AD, Palumbi SR, Sanford E, Hofmann GE (2015) Ocean acidification research in the ‘post-genomic’ era: roadmaps from the purple sea urchin *Strongylocentrotus purpuratus*. *Comparative Biochemistry and Physiology Part A* 185:33-42.
- [19] Ainsworth TD, Krause L, Bridge T, Torda G, Raina JB, Zakrzewski M, Gates RD, **Padilla-Gamiño JL**, Spalding HL, Smith C, Woolsey ES, Bourne DG, Bongaerts P, Hoegh-Guldberg O, Leggat W (2015) The coral core microbiome identifies rare bacterial taxa as ubiquitous endosymbionts. *ISME Journal* 9:2261-2274.
- [18] Pochon X, Forsman Z, Spalding H, **Padilla-Gamiño JL**, Smith C, Gates RD (2015) Depth specialization in mesophotic corals (*Leptoseris* spp.) and associated algal symbionts. *Royal Society Open Science* 2:140351.
- [17] Hagedorn M, Carter V, Farrell A, Zuchowicz N, Johnston E, **Padilla-Gamiño JL**, Gunasekera S, Paul V (2015) Effects of toxic compounds in *Montipora capitata* on Exogenous and

Endogenous Zooxanthellae performance and fertilization success. PLoS ONE 10(2): e0118364. doi:10.1371/journal.pone.0118364.

- [16] Edmunds PJ, Steneck R, Albright R, Carpenter R, Chuie A, Fan T-Y, Harii S, Kitano H, Kurihara H, Legendre L, Mitarai S, Muko S, Nozawa Y, **Padilla-Gamiño JL**, Price N, Sakai K, Suzuki G, van Oppen M, Yarid A, Gates RD (2015) Geographic variation in long-term trajectories of change in coral recruitment: a global-to-local perspective. *Marine & Freshwater Research* 66(7):609-622.
- [15] Roth M, **Padilla-Gamiño JL**, Pochon X, Spalding H, Smith C, Bidigare R, Gates RD (2015) Fluorescent protein expression in mesophotic reef-building corals. *Marine Ecology Progress Series* 521:63-79.
- [14] Gaitán-Espitia JD, Hancock JR†, **Padilla-Gamiño JL**, Rivest EB, Blanchette CA, Reed DC, Hofmann GE (2014) Interactive effects of elevated temperature and pCO₂ on early-life history stages of the giant kelp *Macrocystis pyrifera*. *Journal of Experimental Marine Biology & Ecology* 457:51-58.
- [13] **Padilla-Gamiño JL**, Hédouin L, Waller RG, Smith D, Truong W† & Gates RD (2014) Sedimentation and reproductive biology of the Hawaiian reef building coral *Montipora capitata*. *Biological Bulletin* 226:8-18.
- [12] Hofmann GE, Evans TG, Kelly MW, **Padilla-Gamiño JL**, Blanchette CA, Washburn L, Chan F, McManus M, Menge BA, Gaylord BP, Hill TM, Sanford E, LaVigne M, Rose J, Kapsenberg L & Dutton J (2014) Exploring local adaptation and the ocean acidification seascape- studies in the California Current Large Marine Ecosystem. *Biogeosciences* 11:1053-1064.
- [11] Briggs RA, **Padilla-Gamiño JL**, Bidigare RR, Gates RD & Ruttenberg KC (2013) Impact of coral spawning on the biogeochemistry of a Hawaiian reef. *Estuarine, Coastal and Shelf Science* 134:57-68 [First two authors contributed equally to this work]
- [10] Kelly MW, **Padilla-Gamiño JL** & Hofmann GE (2013) Natural variation, and the capacity to adapt to ocean acidification in the keystone sea urchin *Strongylocentrotus purpuratus*. *Global Change Biology* 19(8):2536-2546 [First two authors contributed equally to this work]
- [9] **Padilla-Gamiño JL**, Kelly MW, Evans T & Hofmann GE (2013) Temperature and CO₂ additively regulate physiology, morphology, and genomic responses of larval sea urchins, *Strongylocentrotus purpuratus*. *Proceedings of the Royal Society B* 280 (1759): 20130155.
- [8] **Padilla-Gamiño JL**, Bidigare R, Barshis DJ, Alamaru A, Hédouin L, Hernández-Pech X, Kandel F, Leon Soon S, Roth MS, Rodrigues LJ, Grottoli AG, Portocarrero C†, Wagenhauser S†, Buttler F & Gates RD (2013) Are all eggs created equal? A case study from the Hawaiian reef building coral *Montipora capitata*. *Coral Reefs* 32(1): 137-152.
- [7] **Padilla-Gamiño JL**, Hanson K, Stat M & Gates RD (2012) Phenotypic plasticity of the coral *Porites rus*: acclimatization responses to a turbid environment. *Journal of Experimental Marine Biology & Ecology* 434-435: 71-80.

- [6] **Padilla-Gamiño JL**, Pochon X, Bird C, Concepcion G & Gates RD (2012) From Parent to Gamete: Vertical transmission of *Symbiodinium* (Dinophyceae) ITS2 Sequence Assemblages in the Reef Building Coral *Montipora capitata*. PLoS ONE 7(6): e38440.
- [5] **Padilla-Gamiño JL** & Gates RD (2012) Spawning dynamics in the Hawaiian reef building coral *Montipora capitata*. Marine Ecology Progress Series 449: 145-160.
- [4] **Padilla-Gamiño JL**, Weatherby T, Waller R & Gates RD (2011) Formation and structural organization of the egg-sperm bundle of the coral *Montipora capitata*. Coral Reefs 30(2): 371-380.
- [3] **Padilla-Gamiño JL** & Carpenter R (2007) Seasonal acclimatization of *Asparagopsis taxiformis* from different biogeographic regions. Limnology & Oceanography 52(2): 833-842.
- [2] **Padilla-Gamiño JL** & Carpenter R (2007) Thermal ecophysiology of *Laurencia pacifica* and *Laurencia nidifica* (Ceramiales) from tropical and warm-temperate regions. Journal of Phycology 43(4): 686-692.
- [1] Gaidos E, Dubuc T, Dunford M, McAndrew P, **Padilla-Gamiño JL**, Studer B, Weersing K & Stanley S. (2007) The Precambrian Emergence of Animal Life: A Geobiological Perspective. Geobiology 5(4): 351-373.

GRANTS

- 2021 NSF CAREER award (Biological Oceanography Program), PI**
Project PI, Temperature and microplastic effects on coral physiology and reproduction.
- 2021 Kenneth K. Chew Endowed Professorship in Aquaculture (\$3,000), PI**
School of Aquatic and Fisheries Sciences (2021)
- 2021 Tetiaroa Society and Seeley Family**
Coral Reef Ecology and Microplastics at Tetiaroa Ecostation (2021-2024)
- 2020 National Institute of Food and Agriculture (\$112,755), PI**
Instrument acquisition for characterization of microplastics in seafood and assessment of plastic degradation of aquaculture gear.
- 2020 Alfred P. Sloan Research Fellowship (\$75,000), PI**
Effects of thermal stress on coral reproduction and the future of seafood, anticipating shellfish response to ocean acidification.
- 2020 Washington Department of Natural Resources (\$160,124), PI**
Influence of climate change stressors on the canopy forming macroalgae bull kelp (*Nereocystis luetkeana*).
- 2019 Washington Sea Grant (\$24,974), PI**
Abalone restoration in Washington state: addressing gaps in hatchery production and understanding the effects of global change stressors on the development and settlement of the pinto abalone.
- 2018 Western Regional Aquaculture Center (\$359,065), Co-PI**
Detection and Control of Mud Blister Worm (*Polydora* spp.) Infestation on Commercial Oyster Farms throughout the Pacific Northwest.

- 2018 **MJ Murdock Charitable Trust (\$8,000)**, PI
Temperature and Ocean acidification effects on Cu and Cd accumulation in economically and ecologically important species in Puget Sound.
- 2017 **NOAA Saltonstall-Kennedy Grant (\$299,998)**, PI
Mitigating the Effects of Global Change on Aquaculture in the Northeastern Pacific Ocean.
- 2017 **Integrative Organismal Systems, National Science Foundation (\$1,580,464)**, PI
Physiological mechanisms involved in the allocation of energy to reproduction in corals under thermal stress.
- 2017 **UW Royalty Research Fund (\$39,902)**, PI
Mitigating the Effects of Global Change on Aquaculture in Washington.
- 2016 **CSUDH Research, Scholarly & Creative Activities Incentive Grant (\$5,068)**, PI
Thermal stress impacts on the reproduction of reef building corals in Hawaii
- 2015 **CSUPERB – Entrepreneurial Joint Venture Matching Grant (\$25,000)**, PI
Identifying climate change resistant genotypes of the farmed *Mytilus galloprovincialis*: exploring the role of maternal effects
- 2015 **CSUDH Research, Scholarly & Creative Activities Incentive Grants (\$10,000)**, PI
Effects of bleaching and sedimentation on coral reproduction & offspring performance

AWARDS, HONORS AND FELLOWSHIPS

- 2021 **NSF CAREER award**
National Science Foundation's most prestigious award in support of early-career faculty who have the potential to serve as academic role models in research and education
- 2020 **Alfred P. Sloan Research Fellowship in Ocean Sciences (\$75,000)**
Early-career scientist and scholar of outstanding promise, recognition of distinguished performance and a unique potential to make a substantial contribution to the field.
- 2020 **Latinx Faculty Recognition Award, University of Washington**
- 2019 **Latinx Faculty Recognition Award, University of Washington**
- 2017 **Latinx Faculty Recognition Award, University of Washington**
- 2015 **Faculty Legacy Award, CSU-Dominguez Hills (\$5,155)**
Project: Impacts of climate change in marine organisms of Southern California
- 2015 **Faculty Scholar Award, CSU-Dominguez Hills**
Award for outstanding student mentorship in research activities
- 2015 **Grant for my Research Award, CSU-Dominguez Hills (\$1,000)**
Support to attend a grant-writing workshop and develop a proposal
- 2010 **Best Paper Award (\$1,000)**
Albert L. Tester Memorial Symposium, University of Hawai'i
- 2010 **Travel award (\$1,350)**
Graduate Student Organization, University of Hawai'i
- 2010 **Carol Ann & Myron K. Hayashida Scholarship (\$1,250)**
Hawai'i Institute of Marine Biology scholarship for scholastic and research efforts
- 2009 **Best paper award (\$1,500)**
Graduate student symposium, Department of Oceanography, University of Hawai'i
- 2007-08 **Three Seas Teaching and Research Fellowship (\$20,000)**
Northeastern University, Moorea, French Polynesia
- 2007 **Best Paper Honorable Mention**

- 88th Western Society of Naturalists Annual Meeting, Ventura, California
- 2006 Scholarship of Friday Harbour Laboratories (\$1,000)**
To participate in the summer course “Larval Biology”, San Juan Is. Univ. of Washington
- 2006 Travel Award (\$1,815)**
Graduate Student Organization, University of Hawai'i
- 2005-10 CONACyT Doctoral Fellowship (\$98,375)**
To study towards a Ph.D. degree. Mexican National Council of Science and Technology
- 2004 Best Paper Honorable Mention**
85th Western Society of Naturalists Annual Meeting, Sonoma, California
- 2004 Best Paper Runner Up**
18th Annual CSUN Student Research Competition, Biological & Agricultural Sciences
- 2004 Research award (\$450)**
Funds to cover materials and research equipment, The University Corporation, California State University, Northridge (CSUN)
- 2003 Best paper award**
Annual CSUN Student Research Competition Division: Science and Mathematics
- 2003 Partnership for Interdisciplinary Studies of Coastal Oceans Scholarship (\$3,000)**
To participate in class Biomechanics and Ecological Physiology of Intertidal Communities, Hopkins Marine Station, Stanford University
- 2003 Wrigley Marine Science Center Graduate Scholarship (\$4,000)**
To perform field and laboratory studies at Santa Catalina Island, University of Southern California
- 2003 Research Award (\$700)**
Completion of M.S. thesis research, Graduate Studies, Research & International Programs CSUN
- 2002-05 Fulbright Graduate Fellowship (\$20,000)**
To study towards a M.S. degree in the USA
- 2002 Oceanography Award**
Honors Recognition for best GPA (Mérito Académico 1997-2001), Oceanography, Marine Science Department, Universidad Autónoma de Baja California, Mexico
- 2001 School for Field Studies Scholarship (\$16,000)**
To participate in the semester course “Marine mammals and coastal ecology conservation”, Pto. San Carlos, B.C.S. Mexico
- 2000 CONACyT Fellowship (\$7,500)**
To participate in the summer course: “Tropical Marine Science”. Cornell University, Mexico. Mexican National Council of Science and Technology
- 1999 Mexican Academy of Sciences Fellowship (\$380)**
To participate in the IX Summer of Scientific Investigation, Institute of Sciences and Limnology UNAM, Mexico
- 1999 Fellowship to undergraduate student excellence (\$180)**
For participating in the project: “Search of active substances (cytotoxic) against cancer from benthic organisms from Baja California”. UABC, Mexico

TEACHING EXPERIENCE

- Instructor **Tropical Marine Biology** (2017-2021) University of Washington
- Instructor **Seminar: Effects of ocean acidification on reproduction** (2019) Univ. of WA
- Instructor **Biology of Shellfish** (2019) University of Washington

- Instructor **Seminar: Marine Pollution in the Salish Sea** (2018) University of Washington
- Instructor **Seminar: Sex and the Sea** (2017, 2020) University of Washington
- Instructor **Biodiversity Lab** (2015, 2016) CSU-Dominguez-Hills
- Instructor **Marine Biology Class & Lab** (2015) CSU-Dominguez-Hills
- Instructor **Introductory Biology** (2015) CSU-Dominguez-Hills
- Instructor **Principles of Biology II – Biodiversity** (2015) CSU-Dominguez-Hills
- Instructor **Marine Biology Class & Lab** (2014) CSU-Dominguez-Hills
- Instructor **Principles of Biology II – Biodiversity** (2014) CSU-Dominguez-Hills
- Lab instructor (Fall 2009) **Science of the Sea Laboratory**. University of Hawai'i, USA
- Teaching assistant (Spring 2007 & 2008) **Biology of Corals** (field class). East/West Marine Biology Program, Northeastern University, Moorea, French Polynesia
- Lab instructor (2002-2004) **Introductory Biology Laboratory**. California State University Northridge, USA
- Graduate assistantship (Fall 2004) **Plant Morphology**. California State University Northridge, USA
- Graduate assistantship (Spring 2004) **Design and Analysis of Experiments**. California State University Northridge, USA
- Graduate assistantship (Fall 2002) **Conservation Biology**. California State University Northridge, California, USA
- Teaching assistant (Summer 2001) **Tropical Marine Science** (field class). Cornell University, Akumal, Mexico

PROFESSIONAL SERVICE

REVIEWING SERVICE

National Science Foundation (panelist and *ad hoc* reviewer for BIO-OCE and IOS), Seagrant, Ecology, Nature Communications, Nature Scientific Reports, Proceedings of the Royal Society B, Limnology and Oceanography, Molecular Ecology, Marine Biology, Coral Reefs, PLoS ONE, Journal of Experimental Marine Biology and Ecology, Royal Science Open Science, ICES Journal of Marine Science, Biological Bulletin, Journal of Biogeography Ecology and Evolution, Frontiers of Marine Science, Comparative Biochemistry and Physiology A, Peer J, Ciencias Marinas, National Council of Science and Technology & French National Research Agency, UW Royal Research Fund.

EDITORIAL SERVICE

Guest editor for Diversity. Special Issue: Biology, Reproduction and Ecophysiology of Corals (2020).

Review Editor for Global Change and the Future Ocean, Frontiers in Marine Science.

Editor and organizer of the Coral Reproduction Session, 14th International Coral Reef Symposium, Bremen, Germany (2019-2021).

Editor and organizer of the Coral Reproduction Session, 13th International Coral Reef Symposium, Honolulu Hawaii (2015-2016).

UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE

Friday Harbor Laboratory Postdoc hiring committee (2020-2021)

Diversity specialist hiring committee (2021)

University of Washington Diversity Council (2019-present)
College of Environment Diversity Committee (2019-present)
Diversity committee at School of Aquatic and Fishery Sciences (2019-present)
Spring seminar series committee (2018 & 2020)
Curriculum Committee at School of Aquatic and Fishery Sciences (2016-2019)
External reviewer for the Environmental Science Master of Science Program (2015)
Campus representative for the CSU Council of Ocean Affairs, Science and Technology (2014-2016)

OTHER ACTIVITIES

- Future of Synthesis in Ecology and Environmental Science Virtual Workshop, National Center for Ecological Analysis and Synthesis (Feb 17-18, 2021)
- Invited participant and speaker: Science and Decisions Roundtable on Ocean Aquaculture, Washington, DC (2019)
- Coral Bleaching Research Coordination Network Workshop, Ohio State University (May 21-23, 2019)
- Invited participant and speaker: Echinoderm Ocean Acidification Endpoint Workshop, Costa Mesa, California, Southern California Coastal Water Research Project (Oct 30-Nov 1, 2018)
- Guest speaker: for Seattle MESA - Mathematics, Engineering, Science Achievement for To prepare underrepresented (African American, Hispanic/Latino, Native American, Pacific Islander, and women) students for higher education and careers in science, technology, engineering and mathematics (STEM)
- Guest speaker: Outreach in Aquatic and Fishery Sciences to Diverse Audiences
- Node coordinator on Reproduction & Larval Ecology for CReSCyNT (Coral Reef Science and Cyberinfrastructure Network), and NSF Research Coordination Network (2016)
- Council of Ocean Affairs, Science & Technology (COAST) Representative, CSU-Dominguez Hills (2014-2016)
- Joint US-Japan-Taiwan-China workshop (2013) Biogeographic variation in coral recruitment in an era of climate change and ocean acidification, Okinawa Institute of Science and Technology
- Organizer & Facilitator: Ocean Acidification Workshop, University of California, Santa Barbara (2012)
- Organizer and Judge: Albert L. Tester Symposium, University of Hawai'i (2011)
- Member of the leadership council for graduate students and postdocs, Center for Microbial Oceanography: Research and Education, University of Hawai'i (2010-2011)
- Biological Oceanography Representative. Na Kama Kai. Department of Oceanography, University of Hawai'i at Manoa (2006-2007)
- Graduate Student Organization (GSO) Representative. Na Kama Kai. Department of Oceanography, University of Hawai'i at Manoa (2005-2006)
- Moderator & Judge at the Pacific Symposium for Science and Sustainability. Hawai'i Academy of Science & The Academy of Applied Science. Campus Center, University of Hawai'i at Manoa, Honolulu, Hawai'i. (2-4th December 2005)

MENTORSHIP

CHAIR

PhD student

- 1) **Lindsay Alma** (2015-present, she bypassed MS in 2018)
Dissertation: Effects of global change on shellfish in the Pacific Northwest.
Awards: Best PhD talk at School of Aquatic and Fishery Sciences Graduate Student Symposium, International Women's Fishing Association Scholarship, National Shellfish Association Travel Award, International Women Fishing Association Grant, Conchologists of America Travel Grant, Graduate School's Fund for Excellence and Innovation Travel Grant, SAFS "FINS" Travel Award, Graduate Research Advancement & Development Grant, JISAO graduate student fellow.

MS students

- 1) **Jeremy Axworthy** (2017-present)
Dissertation: Physiological effects of coral bleaching and microplastics in corals
Awards: National Science Foundation Graduate Research Fellowship Program (NSF-GFRP), Best MS talk at School of Aquatic and Fishery Sciences Graduate Student Symposium
- 2) **Eileen Bates** (2018-present)
Thesis: Effects of temperature and ocean acidification on pinto abalone larvae
Awards: Two-year UW-SAFS graduate fellowship, Best poster award at School of Aquatic and Fishery Sciences Graduate Student Symposium, NSF-GFRP Honorable Mention, International Women's Fishing Association Scholarship, Best talk at the Pacific Growers Shellfish Association Conference. Honorable mention at Western Society of Naturalists, NW CASC Fellow.
- 3) **Corine Klothmann** (2019-present)
Thesis: Filtration capability of eelgrass and implications for human and ecosystem health.
Award: National Science Foundation Graduate Research Fellow, Sigma Xi
- 4) **Miranda Roethler** (2020-present)
Thesis: Ocean acidification and temperature effects on kelp in the Pacific Northwest.
Award: UW-SAFS graduate fellowship
- 5) Callum Backstrom (2021-present)

POSTDOCTORAL RESEARCHERS

- 1) **Núria Viladrich** (2020-2022) Marie Curie Postdoctoral Fellow
Coral Change: How will coral reefs look like in the future?
Adaptive mechanisms and sublethal effects in corals under global change
- 2) **Tanya Brown** (2017-2020)
Allocation of energy for reproduction in corals after a bleaching event.
- 3) **Julieta Martinelli** (2017-2019)
2017-2018: Microplastics in oysters and assessment of the shell-boring oyster parasite *Polydora websteri*
2018-2019: JISAO postdoc. Application of the emerging field of Conservation Paleobiology to uncover ecological baselines

GRADUATE STUDENT COMMITTEE MEMBER

- 1) Molly Roberts (2018-2019)
PhD student. Marine ecology and shellfish bioenergetics (Chairs Emily Carrington and Ken Sebens)
Biology Department, University of Washington

2) Lyda Harris (2018-present)

PhD student. Marine ecology, policy and microplastic contamination (Chair Emily Carrington)
Biology Department, University of Washington

3) Marta Gomez-Buckley (2018-present)

PhD student, Assessing biodiversity, community ecology, and reef connectivity of cryptic coral reef fishes in two central south Pacific archipelagos (Chair Luke Tornabene)
School of Aquatic and Fishery Sciences, University of Washington

4) Laura Spencer (2018-present)

PhD student. Climate adaptation in *Ostrea lurida* via transgenerational epigenetic inheritance (Chair Steven Roberts). School of Aquatic and Fishery Sciences, University of Washington

5) Yaamini R. Venkataraman (2019-present)

PhD student. Epigenetic contribution to intergenerational ocean acidification responses in *Crassostrea* spp. (Chair Steven Roberts) School of Aquatic and Fishery Sciences, University of Washington

6) Violeta Martínez Castillo (2019-present)

PhD student. Effects of tourism on coral reef communities in Puerto Vallarta Mexico (Chair Paola Rodriguez). Centro Universitario de la Costa, Universidad de Guadalajara, Mexico

7) Matt P Grosser (2019-present)

MS student. Coral recolonization.
Department of Landscape Architecture, University of Washington

8) Amy Olsen (2020-present)

MS student. Changes in fish functional groups over time in Hawaii and correlation to environmental and management variables. School of Marine and Environmental Affairs, University of Washington

UNDERGRADUATES

Capstone students, School of Aquatic and Fishery Sciences, University of Washington

2018-2019	Trevor Derie Gonad maturation of the Mediterranean mussel <i>Mytilus galloprovincialis</i> and Olympia oyster <i>Ostrea lurida</i> in three locations within Puget Sound, WA
2018-2019	Josiah Lykkel Diversity and abundance of fish & benthic invertebrates associated with Olympia oyster (<i>Ostrea lurida</i>) beds in Puget Sound, WA
2018-2019	Rachel Cohen Visual and morphological classification of microplastics found in Pacific oysters in Puget Sound, WA
2018-2019	Josephine Gaultier Stress response to increased heat on the short term thermal acclimation in <i>Aiptasia pallida</i> pre-exposed and with no previous exposure to heat stress
2017-2018	Kris Hiromoto Short-term ocean changes affect the energy reserves of Mediterranean mussel (<i>Mytilus galloprovincialis</i>) and Purple-Hinge Rock Scallop (<i>Crassadoma gigantea</i>)

Marine Biology Research Students, University of Washington

- 2019-present Elena Subottin
Gamete development in bleached and non-bleached colonies of the Hawaiian corals
Montipora capitata and *Porites compressa*
- 2019-2020 Megan Swanger
Protocol development for the extraction of domoic acid from sea stars with focus on
Pycnopodia helanthoides

Student volunteers, University of Washington

- 2019-present Delaney Lawson
2019-present Claudia Penny
2018-present Leila Arafeh
2018-2019 Gabriel Mcmillen
2017-2019 Leland Wood
2017-present Angel Sar
2019 Davi Borromeo
2019 Victoria Hsieh
2019 Andrew Olivero
2019 Sarah Elgin
2019 Josie Dodd
2018-2019 Elliot Chin
2018-2019 Linnea Stavney
2018 Marissa Leatherman
2017-2018 Abigail Ames (Mary Gates Research Fellow, PADI research fellow)
2017-2018 Owen Oliver
2017-2018 Linnea Stavney
2017-2018 Elizabeth Landefeld

Student volunteers, California State University Dominguez Hills

- 2016 Mirzha Mendez
2016 Azia Mitchell
2016 Ashley Trujillo
2015-2016 Ashley Potter
2015-2016 Jaime Lopez
2015-2016 Janet Mejia
2015-2016 Marshay Calloway-Smith
2015-2016 Vanessa Gomez
2015 Richard Sato
2015 Araceli Meyn

Students mentored when JPG was a postdoctoral researcher or graduate student.

- 2013 Joshua Hancock, University of California Santa Barbara
2011 William Truong, University of Hawai'i
2007- 2009 Stephanie Wagenhauser, University of Hawai'i
2008- 2009 Claudia Portocarrero, University of Hawai'i
2008 Johnathan "Alika" Cozo, Honolulu Community College
2008 Melissa Sales, Honolulu Community College
2008 Roxie Gabriel, Honolulu Community College
2008 Anya Brown, Three Seas student, Northeastern University
2008 Lianne M Jacobson, Three Seas student, Northeastern University

2008 Carmel Norman, Three Seas student, Northeastern University
2007 Kellie Spafford, Three Seas student, Northeastern University
2007 Kelsey Reider, Three Seas student, Northeastern University

OTHER MENTORSHIP

Elementary school teachers, California State University Dominguez Hills

2015 Marshay Calloway – STAR resident
2015 Vanessa Mendez – STAR resident

High school students, University of Washington

2019 Victoria Hsieh (Hutton Scholar)
2018 Gabriel McMillen (Hutton Scholar)
2017 Hana Abay
2017 Christina Le

INVITED TALKS

Padilla-Gamiño JL (2021) Marine Biology Seminar Series. University of Washington. March 5, Seattle, Washington.

Padilla-Gamiño JL (2020) **Presidential Symposium** Why sex is important for ocean solutions in a changing climate. Western Society of Naturalists, 101st Annual Meeting, Nov 5-8.

Padilla-Gamiño JL (2019) Physiological recovery after a coral bleaching event. Biology Department, University of Washington. Nov 8, Seattle, Washington.

Padilla-Gamiño JL (2019, 2018, 2017) Guest speaker. Hot topics seminar. School of Aquatic and Fishery Sciences, University of Washington. Nov 8, Seattle, Washington.

Padilla-Gamiño JL (2019) Ecophysiology and reproductive biology in a changing environment. Bevan Series Symposium. School of Aquatic and Fishery Sciences, University of Washington. April 16, Seattle, Washington.

Padilla-Gamiño JL (2019) **Plenary Talk** Ecophysiology, reproduction and potential for adaptation of Hawaiian corals in a changing environment. Mexican Coral Reef Symposium. April 2-5, Manzanillo, Mexico.

Padilla-Gamiño JL (2018) Algal ecophysiological adaptations under ocean acidification and extreme environments. University of British Columbia. Dec 4, British Columbia, Canada.

Padilla-Gamiño JL (2017) Ecophysiology and potential for persistence in a changing ocean. Nov 6, Corvallis, Oregon.

Padilla-Gamiño JL (2017) Ecophysiology and potential for persistence in a changing ocean. Northwest Fisheries Science Center Seminar Jam, NOAA Northwest Fisheries Science Center. Nov 30, Seattle, Washington.

Padilla-Gamiño JL (2017) Coral reproduction, parental effects and physiological mechanisms involved in the allocation of energy under thermal stress. Quantitative Seminar at the School of Aquatic and Fishery Sciences, University of Washington. Nov 7, Seattle, Washington.

Padilla-Gamiño JL (2016) Ecophysiological plasticity and potential for adaptation. School of Aquatic and Fishery Sciences. Feb 25, Seattle, Washington.

Padilla-Gamiño JL (2016) Ecophysiological plasticity and potential for adaptation. San Francisco State University. Feb 19, San Francisco, California.

Padilla-Gamiño JL (2015) . Ecophysiological adaptations of early life history stages in marine organisms. San Francisco State University. Feb 26, San Francisco, California.

Padilla-Gamiño JL (2014) Exploring early life history stages in the sea: Parental effects, vulnerabilities and adaptation potential under climate change. Florida International University, Jan 6, Mami, Florida

Padilla-Gamiño JL (2014) Exploring early life history stages in the sea: Parental effects, vulnerabilities and adaptation potential under climate change. California State University Dominguez Hills, Carson, California.

MEETING PARTICIPATION (Select talks)

Roethler M & **Padilla-Gamiño JL** (2020) Effects of climate change on kelps. 74th Shellfish Growers Conference, Oct. 6-8. Virtual conference.

Klohmann C & **Padilla-Gamiño JL** (2020) Eelgrass: cleaning our water one blade at a time. 74th Shellfish Growers Conference, Oct. 6-8. Virtual conference.

Bates E & **Padilla-Gamiño JL** (2020) Trace metal accumulation in Puget Sound shellfish: what should growers know? 74th Shellfish Growers Conference, Oct. 6-8. Virtual conference.

Bates E & **Padilla-Gamiño JL** (2019) Impacts of ocean acidification and warming on early life history stages of pinto abalone (*Haliotis kamtschatkana*) in Washington state. 73rd Shellfish Growers Conference, Sept. 17-19, Portland, Oregon. Western Society of Naturalists, Oct. 31-Nov 3, Ensenada, Mexico.

Alma L & **Padilla-Gamiño JL** (2019) Does it matter where my parents grew up? Transgenerational effects of Olympia oyster larvae. 73rd Shellfish Growers Conference, Sept. 17-19, Portland, Oregon. Western Society of Naturalists, Oct. 31-Nov 3, Ensenada, Mexico.

Axworthy J & **Padilla-Gamiño JL** (2018), Microplastic Ingestion by thermally-stressed reef-building corals. Western Society of Naturalists, Nov 8-10, Tacoma, Washington

Alma A & **Padilla-Gamiño JL** (2018), Scallops under stress: Climate related stressors affect molecules, microbes, mantle and everything-in-between? Western Society of Naturalists, Nov 8-10, Tacoma, Washington

Martinelli J & **Padilla-Gamiño JL** (2018) Conservation Paleobiology as a tool to support Olympia oyster restoration. Aquaculture, March 7-11, New Orleans, Louisiana.

Martinelli J & **Padilla-Gamiño JL** (2018) Determining presence of microplastics in shellfish from Puget Sound, Washington. Aquaculture, March 7-11, New Orleans, Louisiana.

Alma L & **Padilla-Gamiño JL** (2018) Temporal and spatial variable ocean conditions impact physiological performance of bivalves in Puget Sound, WA. National Shellfish Association. Sept 18-20, Blaine, Washington.

Alma L & **Padilla-Gamiño JL** (2017) Physiological responses of the Purple-Hinge Rock Scallop to increased pCO₂ and temperature. Western Society of Malacologists. June 19-23, Los Angeles, California.

Padilla-Gamiño JL (2016) Physiological plasticity and local adaptation to ocean acidification in calcareous algae: An ontogenic and geographic approach. Western Society of Naturalists, November 10-13, Monterey Bay, California.

Padilla-Gamiño JL (2016) Environmental effects on sexual reproduction of reef building corals from Hawaii. International Coral Reef Symposium, June 19-25, Honolulu, Hawaii.

Padilla-Gamiño JL (2016) Physiological plasticity and local adaptation to ocean acidification in calcareous algae: An ontogenic and geographic approach. Society for Integrative and Comparative Biology, January 3-8, Portland, Oregon.

Lenz B, **Padilla-Gamiño JL**, Gates R (2015) Reproduction in the stony coral, *Montipora capitata* after a major bleaching event in Kane'ohe Bay, Hawaii. Western Society of Naturalists. November 5-8, Sacramento, CA.

Padilla-Gamiño JL, Roth M, Spalding H, Pochon X & Gates R (2015) Ecophysiology of mesophotic corals in Hawaii. Mexican Congress of Coral Reefs, May 19-22, Puerto Vallarta, Mexico.

Padilla-Gamiño JL (2014) The influence of parental conditions on coral reproductive outputs. 4th Yosemite Symbiosis Workshop. Sierra Nevada Research Station, May 3-4, California.

Padilla-Gamiño JL, Kelly M, Evans TG & Hofmann GE (2013) Multiple climate change variables interact to reduce the physiological performance of sea urchin larvae in future oceans. Society for Integrative and Comparative Biology, January 3-7, San Francisco, California.

Padilla-Gamiño JL, Kelly M & Hofmann GE (2012) Effects of multiple stressors: impacts of elevated temperature and pCO₂ in the larval physiology of the purple sea urchin *Strongylocentrotus purpuratus*. 10th International Larval Symposium, July 30-Aug 3, Berkeley, California.

Kelly M, **Padilla-Gamiño JL** & Hofmann GE (2012). Evolving in the Ocean Acidification Seascape: is there local adaptation to carbonate chemistry? 10th International Larval Symposium, July 30-Aug 3, Berkeley, California.

Padilla-Gamiño JL & Gates RD (2012). Are all eggs created equal? A case study from the Hawaiian reef building coral *Montipora capitata*. 10th International Larval Symposium, July 30-Aug 3, Berkeley, California.

Padilla-Gamiño JL & Gates RD (2011) Spawning dynamics and parental effects in the Hawaiian coral *Montipora capitata*. Mexican Congress of Coral Reefs, Aug 24-26, Ensenada, Mexico.

Padilla-Gamiño JL & Gates RD (2011) Sedimentation effects on the ecophysiology of *Porites rus* in Moorea, French Polynesia. Association for the Sciences of Limnology & Oceanography, Feb 13-18, San Jose, Puerto Rico.

Padilla-Gamiño JL & Gates RD (2010) From the parent to the offspring: parental influence on the offspring physiology in the coral *Montipora capitata*. 2nd Asia Pacific Coral Reef Symposium, June 20-24, Phuket, Thailand.

Briggs R, Ruttenberg K, **Padilla-Gamiño JL** & Gates RD (2010) Impact of *Montipora capitata* coral spawning on coastal biogeochemistry in Oahu, Hawai'i. 2nd Asia Pacific Coral Reef Symposium, June 20-24, Phuket, Thailand.

Padilla-Gamiño JL (2010) From the parent to the offspring: parental influence on the offspring physiology in the coral *Montipora capitata* 35th Annual Albert L. Tester Memorial Symposium, March 19, University of Hawai'i at Manoa, Honolulu, Hawai'i.

Padilla-Gamiño JL (2009) The influence of parental conditions on coral offspring: are all gametes created equal? STAR Student Symposium, Department of Oceanography, University of Hawai'i at Manoa, April 9, Honolulu, Hawai'i.

Padilla-Gamiño JL & Gates RD (2008) The Influence of Size, Morphology and Parental Conditions on Coral Reproductive Outputs. International Coral Reef Symposium, July 7-11, Fort Lauderdale, Florida.

Padilla-Gamiño JL (2007) Coral sex: everything that you always wanted to know but you were afraid to ask. Coral Reef Targeted Research & Capacity Building for Management Program, Future Leaders Forum, December 10-14, Brisbane, Australia.

Padilla-Gamiño JL & Gates RD (2007) Exploring coral reproduction in the field: do size and morphology influence the reproductive output of the hermatypic coral *Montipora capitata* (spawner)? 88th Western Society of Naturalists Annual Meeting, November 8-11, Ventura, California.

Padilla-Gamiño JL (2006) Effects of Lipid Removal on the Development of Polychaete Larvae and Future Studies on Lipids in Relation to Coral Parental Investment. STAR Student Symposium, Department of Oceanography, University of Hawai'i at Manoa, April, Honolulu, Hawai'i.

Padilla-Gamiño JL & Carpenter R (2004) Differences in thermal acclimation of *Laurencia sp.* and *Asparagopsis taxiformis* from different biogeographic regions. 85th Western Society of Naturalists Annual Meeting, Nov 11-14, Sonoma, California.

Padilla-Gamiño JL & Carpenter R (2004) Seasonal acclimatization of *Asparagopsis taxiformis* from different biogeographic regions. Ecological Society of America Meeting, Aug 1-6, Portland, Oregon.

Padilla-Gamiño JL (2003) Thermal acclimation of algae from different biogeographic regions. Annual CSUN Student Research Competition, California State University Northridge, Nov 21, Northridge, California.

Padilla-Gamiño JL (2003) Thermal acclimation of *Asparagopsis taxiformis* from different biogeographic regions. 84th Western Society of Naturalists Annual Meeting, Nov 7-10, Long Beach, California.

Padilla-Gamiño JL, Dolan M & Bruno J (2002) Seed dispersal and landscape dispersal limitation in the cobble beach plant metacommunity. 31st Marine Benthic Ecology Meeting, March 21-24, Orlando, Florida.

SPECIAL TRAINING

- Methods in Ecological Genomic Analysis (2015) Mote Marine Lab, Florida.
- Future Leaders Forum (2007) Coral Reef Targeted Research & Capacity Building for Management Program. Brisbane, Australia
- Marine Conservation Science & Policy (2007) Hatfield Marine Science Center. Newport, Partnership for Interdisciplinary Studies of Coastal Oceans, Oregon
- Larval Biology Course (2006) Friday Harbor Lab, University of Washington, Washington
- Mellon Scholars Program (2004) Friday Harbor Lab, University of Washington, Washington
- Biomechanics and Ecological Physiology of Intertidal Communities (2003) Hopkins Marine Station, Stanford University, Partnership for Interdisciplinary Studies of Coastal Oceans, California

OUTREACH

PUBLICATIONS

- **Padilla-Gamiño JL** (2014) Kupe and the Corals. Bilingual children's book. LTER Schoolyard Children's Book Series, Moonlight publishing, Moorea Coral Reef – Long Term Ecological Research (MCR-LTER). Bilingual book versions available in Spanish, French, Tahitian, Hawaiian and Paumotu.
- Bruno B, **Padilla-Gamiño JL.**, De Leo F (2013), C-MORE Professional Development Training Program for graduate students and post-doctoral researchers The Earth Scientist 29(3):11-15
- **Padilla-Gamiño JL.** & Bruno B (2010) El mar y sus microbios. Revista Hélix. CONACyT Ciencia y Desarrollo, Mexican National Council of Science and Technology. October issue

- Weersing K, **Padilla-Gamiño JL** & Bruno B (2010) What microbe are you? *The Science Teacher* 77(6): 40-43
- Building capacity in coral reef science: An anthology of CRTR scholars' research (2010). Contributing author, Publication of the Coral Reef Targeted Research (CRTR) and Capacity Building for Management Program
- **Padilla-Gamiño JL** (2009) Coral Romance: exploring coral reproduction with a field perspective. *Ka Pili Kai* Magazine article Spring 2009, Vol. 31 No. 1

ACTIVITIES

- Interview with Lake Washington High School Project (March XX, 2021).
- Louisiana State University Science Café: Our Changing Oceans (Feb 23, 2021).
- Interview with Washington Green Schools and UW College of the Environment office of Diversity, Equity, and Inclusion to increase awareness in students, especially students of color, about professional opportunities and topics in environmental fields (July 23, 2020).
- Panelist in Professional Development Workshop for NSF-REU Graduate Student Panel in Ocean Science (July 22, 2020)
- Technology Teaching Fellows Institute, University of Washington (July 13-17, 2020). Use of digital technology to communicate with students and create a more inclusive environment.
- COMPASS workshop Navigating West Coast Ocean Change, Asilomar, Pacific Grove, California (Jan 16-18, 2019)
- Seattle Aquarium Lightning Talk. Coral sex: What goes on when the sun comes down? (Nov 2018)
- School of Aquatic and Fishery Sciences Open House (2018) Booths: Ocean acidification and shellfish and corals and climate change (2018)
- UW College of Environment Science Communication Training (2018)
- Chasing Coral Panelist, CAPROC group Inc. (2017)
- Invited speaker for Math, Engineering, Science Achievement (MESA) Saturday Academy Program targeted at high poverty schools and underrepresented minority students (2016)
- Development and coordination of the Professional Development Training Program for graduate students & postdocs at the Center for Microbial Oceanography: Research and Education (2009-2010)
- Professional Development Training. Center on Disability Studies and Center for Teaching Excellence, University of Hawai'i (2009)
- Participant of the MCR-LTER Education & Outreach working group (2007)
- Volunteer School of Ocean and Earth Science and Technology (SOEST) Open House. Kids Activity Crew Leader. University of Hawai'i (2007)
- Seagrant Education Outreach Project. Coral Reproduction (2007)
- Volunteer SOEST Open House, Gyotaku Fish Painting. University of Hawai'i, School of Ocean and Earth Science and Technology (2005)

GRANTS

- LTER Children's Book Project (2008) LTER Schoolyard Children's Book Series (\$9,450)

INTERVIEWS

- 2019 King5 News – “UW researchers study effects of microplastics on ocean life”
- 2019 The Maui News – “ Even with little light from the sun, mesophotic corals can still thrive in Auau channel”
- 2008 KITV 4 news- July Coral Spawning “Hawai‘i going Green”
- 2008 KHNL 8 news – July Coral Spawning “Earth & Sea Project”
- 2011 Moku O Lo‘e- An eclectic past paves the way for cutting-edge marine science and conservation, Green: Hawai‘i Sustainable Living Magazine

PROFESSIONAL AFFILIATIONS

- Phi Beta Delta Honours Society
- Sigma Xi The Scientific Research Honor Society
- Western Society of Naturalists
- Ecological Society of America
- Graduate Women in Science
- Society for Integrative and Comparative Biology
- International Coral Reef Society
- Sistema Nacional de Investigadores(SNI, Mexico)
- Association of Oceanographers of Mexico
- Mexican Association of Coral Reefs (SOMAC)

FIELD EXPERIENCE

SEA EXPERIENCE

- 300+ Research Dives
- RV Kilo Moana cruise. March 22-25th, 2006. Investigations of the pelagic community off Hawai‘i: a shipboard laboratory for the graduate course “Ecology of Pelagic Marine Animals”
- KOK Deep Sea Cruise. January 16-22nd, 2010 Submersible dive experience 8hrs, max depth 135 m. Coral Reef Ecosystem Studies (CRES) Deep Reef Project University of Hawai‘i

FIELD CERTIFICATIONS

- Basic keelboat sailing (2012), ASA, Santa Barbara, California, USA
- French boating license (2007), Permis Mer Côtier, French Polynesia
- USA boating license (2007), Hawai‘i, USA
- Dive Master (2001) PADI. Akumal, Q. Roo. Mexico
- Rescue Diver (2001) PADI. Akumal, Q.Roo. Mexico
- Advanced Open Water Diver (1999) PADI. Ensenada, B.C. Mexico
- Sport Diving course (1997) C.M.A.S. & F.M.A.S. Guadalajara, Mexico