**­­­­­Jacqueline L. Padilla-Gamiño**

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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

**2007-2009Sea 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 (HIMB)

**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 Limnologia (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**

Brown T, **Padilla-Gamiño JL** (*submitted*) Characterization of the microbiome and immune response in corals with chronic Montipora white syndrome

Axworthy J, **Padilla-Gamiño JL** (*in review)* Microplastics ingestion by thermally stressed reef building corals. Scientific Reports.

[26] Alma L, Kram K, Holtgrieve GW, Arambula A, Fiamengo C, **Padilla-Gamiño JL** (*accepted*) Ocean Acidification and warming affect the physiology and microbial diversity of the Purple-Hinge Rock Scallop. Comparative Biochemistry and Physiology, Part A.

[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.

[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 *[\*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 *[\*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. doi:10.1371/journal.pone.0038440.

[5] **Padilla-Gamiño JL** & Gates RD (2012) Spawning dynamics in the Hawaiian reef building coral *Montipora capitata*. Marine Ecology Progress Series449: 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 & Oceanography52(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 Phycology43(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, AWARDS & HONORS**

**2018 Western Regional Aquaculture Center ($359,065)**

Project Co-PI, Detection and Control of Mud Blister Worm (*Polydora* spp.) Infestation on Commercial Oyster Farms throughout the Pacific Northwest.

**2017 Saltonstall-Kennedy Grant ($299,998)**

Project PI, Mitigating the Effects of Global Change on Aquaculture in the Northeastern Pacific Ocean**.**

**2017 Integrative Organismal Systems, National Science Foundation ($1,051,824)**

Project PI, Physiological mechanisms involved in the allocation of energy to reproduction in corals under thermal stress.

**2017 Royal Research Fund, UW ($39,902)**

Project PI, Mitigating the Effects of Global Change on Aquaculture in Washington.

**2016 Research, Scholarly & Creative Activities Incentive Grant, CSUDH ($5,068)**

Project PI, Thermal stress impacts on the reproductive performance of reef building corals in Hawaii

**2015 CSUPERB – Entrepreneurial Joint Venture Matching Grant ($25,000)**

Project PI, Identifying climate change resistant genotypes of the farmed *Mytilus galloprovincialis*: exploring the role of maternal effects

**2015 Research, Scholarly & Creative Activities Incentive Grant, CSUDH ($10,000)**

Project PI: Effects of bleaching and sedimentation on coral reproduction & offspring performance

**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 Ecology** (2017, 2019) University of Washington
* Instructor **Biodiversity Lab** (2015, 2016) CSU-Dominguez-Hills
* Instructor **Marine Biology** (2014, 2015)CSU-Dominguez-Hills
* Instructor **Principles of Biology II – Biodiversity** (2014, 2015) CSU-Dominguez-Hills
* Instructor **Introductory Biology** (2015) CSU-Dominguez-Hills
* Teaching assistant (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
* Teaching associate (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), Seagrant, Ecology, 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.

**Editorial Service**

Review Editor for Global Change and the Future Ocean, Frontiers in Marine Science, Proceedings of the International Coral Reef Symposium

**Activities**

* Editor and organizer of the Coral Reproduction Session, 14th International Coral Reef Symposium, Bremen, Germany (2019)
* Science and Decisions Roundtable on Ocean Aquaculture, Washington, DC (2019)
* Node coordinator on Reproduction & Larval Ecology for CReSCyNT (Coral Reef Science and Cyberinfrastructure Network), and NSF Research Coordination Network (2016)
* Editor and organizer of the Coral Reproduction Session, 13th International Coral Reef Symposium, Honolulu Hawaii (2016)
* Council of Ocean Affairs, Science & Technology (COAST) Representative, CSU-Dominguez Hills (2014-2016)
* 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)

**STUDENT ADVISING**

**PhD students**

1) **Lindsay Alma** (2015-present)

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

2) **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,

**MS students**

1) **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

2) **Veronica de Pascuale** (2019-present)

Thesis: Sexual reproduction of Symbiodiniceae under thermal stress

Award: Two-year UW-SAFS graduate fellowship

3) **Corine Klothmann** (2019-present)

Thesis: Filtration capability of eelgrass and implications for human and ecosystem health.

Award: National Science Foundation Graduate Research Fellow

**Undergraduates that have performed independent research projects under my mentorship.**

2019 Trevor Derie, University of Washington

2017-2018 Kris Hiromoto, University of Washington

2017-2018 Abigail Ames, University of Washington

2016 Mirzha Mendez, CSU Dominguez Hills

2016 Azia Mitchell, CSU Dominguez Hills

2016 Ashley Trujillo, CSU Dominguez Hills

2015-2016 Ashley Potter, CSU Dominguez Hills

2015-2016 Jaime Lopez, CSU Dominguez Hills

2015-2016 Janet Mejia, CSU Dominguez Hills

2015 Marshay Calloway – STAR resident, CSU Dominguez Hills

2015 Vanessa Mendez – STAR resident, CSU Dominguez Hills

2015 Richard Sato, CSU Dominguez Hills

2015 Araceli Meyn, CSU Dominguez Hills

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

**MEETING PARTICIPATION** (Select talks)

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

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

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.

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

**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, 2017, Seattle, Washington, ***Invited talk****.*

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** (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. ***Invited talk***

**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. LTERSchoolyard 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) Science and Decisions Roundtable on Ocean Aquaculture, Washington, DC (2019)
* , The Earth Scientist XXIX (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**

* School of Aquatic and Fishery Sciences Open House (2018) Booths: Ocean acidification and shellfish and corals and climate change (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 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 Loʽe- 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