
CURRICULUM VITAE

Michael A. Gil

National Science Foundation Postdoctoral Research Fellow, Dept. of Environmental Science & Policy

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EDUCATION

University of Florida (UF), *Ph.D., Biology* 2009-2015

- National Science Foundation (NSF) Graduate Research Fellow
- University of Florida Graduate Research Fellow

University of Texas at Austin (UT), *B.S., Biology* 2004-2008

- Dean's Honored Graduate
- *Magna cum laude*, Phi Beta Kappa, Honors in Biology

Sea Education Association (SEA), Semester at Woods Hole, MA 2007

- SEA Dean's Scholar
 - Research Cruise S-214: Oceanic Carbon Cycle (Mexico to Tahiti)
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RESEARCH INTERESTS

Community, behavioral, spatial and theoretical ecology, ecological modeling, biological conservation; particularly anthropogenic effects on species interactions in marine ecosystems

ACADEMIC APPOINTMENTS

Department of Environmental Science & Policy, University of California Davis, California, USA
NSF Postdoctoral Research Fellow, Advisors: Andy Sih and Marissa Baskett March 2016 – present

Department of Biology, University of Florida Gainesville, Florida, USA
Ph.D. Candidate, Advisor: Craig Osenberg Aug. 2009 – Dec. 2015

University of California, Berkeley, Gump Research Station Mo'orea, French Polynesia
Graduate Researcher 3-4 months per year: 2010-2014

Centre de Recherches Insulaires et Observatoire de l'Environnement Mo'orea, French Polynesia
Visiting Graduate Researcher, Host: Suzanne Mills Jan., June-Aug. 2013

Plastics @ SEA 2012: North Pacific Expedition <i>Volunteer Researcher</i>	California to Hawai'i, USA <i>Oct.-Nov. 2012</i>
Jobos Bay National Estuarine Research Reserve <i>Post-Baccalaureate Researcher, Supervisor: Troy Mutchler</i>	Aguirre, Puerto Rico <i>May-June 2009</i>
University of California, Berkeley, Gump Research Station <i>Post-Baccalaureate Researcher, Supervisor: Adrian Stier</i>	Mo'orea, French Polynesia <i>April 2009</i>
University of Texas at Austin, Marine Science Institute <i>Post-Baccalaureate Researcher, Supervisor: Ken Dunton</i>	Port Aransas, Texas, USA <i>June-Sept. 2008</i>
University of Texas at Austin, Department of Integrative Biology <i>Undergraduate Research Assistant, Advisor: Mary Poteet</i>	Austin, Texas, USA <i>Jan.-May 2008 & Sept.-Dec. 2006</i>
SEA Semester at Woods Hole (expedition from Mexico to Tahiti) <i>Undergraduate Researcher, Advisors: Jan Witting and Kara Lavender</i>	Woods Hole, Mass., USA <i>Oct. 2007-Jan. 2008</i>
University of Texas at Austin, Marine Science Institute <i>Undergraduate Research Assistant, Advisor: Ken Dunton</i>	Port Aransas, Texas, USA <i>May-July 2007</i>
Lizard Island Research Station <i>Undergraduate Research Assistant, Advisor: Mary Poteet</i>	Lizard Island, Australia <i>May-June 2005</i>

PUBLICATIONS (=co-lead author, ^grad. student, ^postdoc, *international collaborator, †advised student)

Peer reviewed, published or in press:

Gil, M.A.[^], A.M. Hein, O. Spiegel[^], M.L. Baskett, and A. Sih. Social information can link individual behavior to population and community dynamics. *Trends in Ecology & Evolution* (In press).

Gil, M.A.[^] 2017. [YouTube videos of 'research in action' foster diverse public interest in science](#). *Ideas in Ecology & Evolution*. 10(1), ISSN 1918-3178.

Gil, M.A.^{=^} and A.M. Hein^{=^}. 2017. [Social interactions among grazing reef fish drive material flux in a coral reef ecosystem](#). *Proceedings of the National Academy of Sciences*. 114(18):4703-4708.
*Featured as issue cover [[Earth.com](#), [International Business Times](#), [Public Now](#), [Axios](#), [ScienceDaily](#), [Phys Org](#), [Science Newslines](#), [ScienMag](#), [NOAA](#), [The Davis Enterprise](#), [UC Davis News](#)]

Zill, J.[†], **M.A. Gil**[^] and C.W. Osenberg. 2017. [When environmental factors become stressors: interactive effects of vermetid gastropods and sedimentation on corals](#). *Biology Letters*, 13, 3.

Gil, M.A.[^], J. Zill[†], and J.M. Ponciano. 2017. [Context-dependent landscape of fear: algal density elicits risky herbivory in a coral reef](#). *Ecology* 98:534–544. [[ScienceDaily](#), [Science Newslines](#), [R&D Magazine](#), [Environment Guru](#), [X-Ray Mag](#), [STEAM Register](#), [Davis Enterprise](#), [UC Davis News](#)].

- Gil, M.A.**[^], Emberts, Z. [^], Jones, H.[^], and St. Mary, C. 2017. [Social information on fear and food drives animal grouping and fitness](#). *The American Naturalist* 189:227–241. [[AmNat News](#), [The California Aggie](#)]
- Gil, M.A.**[^], S. Goldenberg[^], A. Ly Thai Bach[^], S.C. Mills[^], and J. Claudet[^]. 2016. [Interactive effects of three pervasive marine stressors in a post-disturbance coral reef](#). *Coral Reefs* 35:1281-1293. [[UC Davis](#), [PeterSaleBooks.com](#)]
- Pfaller, J.B.[^] and **M.A. Gil**[^]. 2016. [Sea turtle symbiosis facilitates social monogamy in oceanic crabs](#). *Biology Letters*. 12, 9. [[Popular Science](#), [New Scientist](#), [Phys Org](#), [mental floss](#), [Natural Science News](#), [UC Davis News](#)]
- Gil, M.A.**[^] and J.B. Pfaller[^]. 2016. [Oceanic barnacles act as foundation species on plastic debris: implications for marine dispersal](#). *Scientific Reports* 6:19987. [[Science Friday](#), [Discover Magazine](#), [ScienceDaily](#), [Europa Press](#), [Science et Vie Junior](#), [Santa Cruz Sentinel](#)]
- Gil, M.A.**[^], J. Jiao[^], and C.W. Osenberg. 2016. [Enrichment scale determines herbivore control of primary producers](#). *Oecologia*: 180:833-840. [[Huffington Post](#), [Science World Report](#), [Futurity](#), [Phys Org](#), [Tampa Bay Newswire](#), [University of Florida News](#)]
- Gil, M.A.**[^], B. Renfro[^], B. Figueroa-Zavala[^], I. Penié[^], and K. Dunton. 2015. [Rapid tourism growth and declining coral reefs in Akumal, Mexico](#). *Marine Biology* 162:2225-2233.
- Gil, M.A.**[^] 2013. [Unity through nonlinearity: A unimodal coral-nutrient interaction](#). *Ecology* 94:1871-1877. *Honorable Mention, “Best Student Paper”, UF Department of Biology, Spring 2014*
- Stier, A. C.[^], **M. A. Gil**[^], C. S. McKeon[^], S. Lemer[^], M. Leray[^], S. C. Mills[^], and C. W. Osenberg. 2012. [Housekeeping mutualisms: Do more symbionts facilitate host performance?](#) *PLoS ONE* 7:e32079.
- Peer reviewed, in review or in prep.:**
- Jiao, J.[^], S. Pilyugin, **M.A. Gil**[^] and C.W. Osenberg. Mobility affects consumer-resource interactions across space and time. (In revision: *The American Naturalist*).
- Rehage, J.S., O. Spiegel[^], A.E. Steel[^], **M.A. Gil**[^], L. Pollack and A. Sih. Why should movement matter? Integrating technological advances and ecological theory. (Accepted for review: *Ecology Letters*).
- Gil, M.A.**[^], H. Hillard, and E. Schoenig. Species and stage specific effects of mixed species social foraging in coral reef fish. (In prep).
- Gil, M.A.**[^], and M.L. Baskett. Effects of social herbivores on the resilience of coral reefs. (In prep).
- Hein, A.M., **M.A. Gil**[^], and C.R. Twomey. Interspecific responses to predator and social cues in roving coral reef fishes. (In prep).
- Thesis and Technical Reports:**
- Gil, M.A.** 2015. Context dependence in effects of nutrient enrichment on tropical coral reefs. Ph.D. Dissertation. Department of Biology, University of Florida.

Mutchler, T., **M.A. Gil**, and K.H. Dunton. 2009. Investigating the response of seagrass meadows to environmental stressors: Quantifying the effect of grazing and nutrient enrichment on seagrass growth & tissue nutrient content. Jobos Bay National Estuarine Research Reserve, Puerto Rico.

Montagna, P.A., T. Palmer, **M.A. Gil**, E. Hill, B. Nicolau, and K.H. Dunton. 2009. Response of the Nueces estuarine marsh system to freshwater inflow: An integrative data synthesis of baseline conditions for faunal communities. Coastal Bend Bays & Estuaries Program, Inc.

Gil, M.A., K. H. Dunton, S. V. Schonberg, K. Jackson, and P. A. Montagna. 2008. Establishment of Wet and Dry Periods in the Nueces Delta for Examination of Temporal and Spatial Patterns in Emergent Vegetation and Benthic Macrofauna. Coastal Bend Bays & Estuaries Program, Inc.

Gil, M.A. 2008. Spatial variation in test size of the pteropods *Limacina inflata* and *Limacina trochiformis* in relation to pH across the eastern equatorial Pacific. *In*: Student Research Reports: S-214, Sea Education Association, P.O. Box 6, Woods Hole, MA 02543.

Gil, M.A., K. Jackson, and S. Moorhead. 2007. Little Bay Project Summary. City of Rockport, TX.

Popular articles:

Gil, M.A. 2017. Sail away from plastic seas – with science. Ocean Watch Magazine. November issue. Published by Sailors for the Sea. <https://issuu.com/sailorsforthesea/docs/2017-ocean-watch-magazine/12>

Gil, M.A. 2016. Sailing, science, and saving the world. Reach: US Sailing’s STEM Education Initiative. <http://reach.ussailing.org/sailing-science-and-saving-the-world/>

Gil, M.A. and T. Bottenus. 2012. A hitchhiker’s guide to the North Pacific Subtropical Gyre. Shipboard Journal article for the Plastics at SEA 2012 Expedition. http://www.sea.edu/plastics/journal/november_3_day_32

Gil, M.A. 2012. Science needs you! (really): The importance of critical thinking in the Communication Age. Shipboard Journal article for the Plastics at SEA 2012 Expedition. http://www.sea.edu/plastics/journal/october_10_day_8

PRESENTATIONS

Invited Seminars

2017 Department of Ecology and Evolutionary Biology. Hosts: Pete Raimondi & Mark Carr. September 29th. University of California, Santa Cruz, California, USA.

2017 Center of Excellence for Ecoinformatics. Hosts: Mullica and Krisanandej Jaroensutasinee. July 24th. Walailak University, Nahkon Si Thammarat, Thailand.

2017 University of Texas at Austin, Marine Science Institute. Host: Ken Dunton. April 14th. Port Aransas, Texas, USA.

2017 Center for Population Biology. Host: Marissa Baskett. April 11th. University of California, Davis, California, USA.

- 2017 Animal Behavior Graduate Group. Host: Andy Sih. February 10th. University of California, Davis, California, USA.
- 2016 NOAA National Ocean Service Science Seminar, Feb. 17th. Washington D.C., USA.
- 2015 Department of Biology (Ph.D. Exit Seminar). Host: Craig Osenberg. Oct. 8th. University of Florida, Gainesville, Florida, USA.

Other Invited Talks

- 2017 **Gil, M. A.** “How fish may (or may not) save coral reefs”. Invited Speaker for the Ecological Society of America’s special program ‘Strategies for Ecology Education, Diversity and Sustainability’ (S.E.E.D.S.), UC Davis Chapter. November 13th. University of California, Davis, California, USA.
- 2017 **Gil, M.A.** “How fish may (or may not) save coral reefs”. Invited Panel Speaker at the 4th Annual One Health Symposium: ‘Water is Life’. November 4th. UC Davis One Health Institute, Davis, California, USA.
- 2017 **Gil, M. A.** “Social lives of fish may be key to saving coral reefs.” Invited Speaker at TED Global 2017. August 28th. Arusha, Tanzania.
- 2017 **Gil, M. A.** “Social lives of fish may be key to saving coral reefs.” Invited Speaker at COREsea: Center for Oceanic Research and Education. Host: Eike Schoenig. August 8th. Koh Phangan, Surat Thani, Thailand
- 2017 **Gil, M. A.** “Context-dependent control of algae by coral reef fishes.” Invited Speaker at COREsea: Center for Oceanic Research and Education. Host: Eike Schoenig. June 26th. Koh Phangan, Surat Thani, Thailand
- 2017 **Gil, M. A.** “Science and saving coral reefs.” Invited Speaker, Conservation Seminar Series, Texas State Aquarium, April 14th. Host: Suraida Nanez-James, Corpus Christi, Texas, USA.
- 2017 **Gil, M. A.** “Science and saving coral reefs” Invited Speaker, Tuleyome Lecture Series on 'Nature and You'. Host: Bill Grabert. February 16th. Mary L. Stephens Davis Branch Library, Davis, California, USA.
- 2017 **Gil, M. A.** “Science and saving coral reefs”. Invited Speaker for the Ecological Society of America’s special program ‘Strategies for Ecology Education, Diversity and Sustainability’ (S.E.E.D.S.), UC Davis Chapter. January 23rd. University of California, Davis, California, USA.
- 2016 **Gil, M. A.** “Science and saving coral reefs”. Invited Speaker for ‘Science Café’, Host/Creator: Jared Shaw, Sponsor: UC Davis Division of Math and Physical Sciences and Capital Science Communicators, December 15th. G Street Wunderbar, Davis, California, USA.
- 2016 **Gil, M. A.** “My love-hate relationship with whales”, Guest storyteller for ShortsNLongs storytelling event at Third Space Art Collective, Oct. 21st, Davis, California, USA.
- 2016 **Gil, M. A.** “Sailing toward sustainable coral reefs”. Oral presentation for Aruba International Regatta awards ceremony. Host: Eric Mijts. August 21st. Surfside Beach, Aruba.
- 2016 **Gil, M. A.** “Science and saving coral reefs”. Keynote oral presentation for Aruba International Regatta. Hosts: Eric Mijts and Glen Thodé. August 18th. University of Aruba, Oranjestad, Aruba.
- 2016 **Gil, M. A.** “Why the reef is green: how nutrient enrichment affects tropical coral reefs”. Invited Speaker at New Heaven Reef Conservation Program, July 9th. Koh Tao, Surat Thani, Thailand.
- 2016 **Gil, M. A.** “Why the reef is green: how nutrient enrichment affects tropical coral reefs”. Invited Speaker at COREsea: Center for Oceanic Research and Education. Host: Eike Schoenig. June 8th. Koh Phangan, Surat Thani, Thailand.

- 2015 **Gil, M. A.** “How humans affect tropical coral reefs”. Keynote oral presentation for Sailors for the Sea Symposium, Caribbean Sailing Association Annual Meeting, Oct. 23rd. Sint Maarten.

Conference Presentations ([^]presenter, ^{*}international collaborator, [†]advised student)

- 2018 Hein, A.M.[^] and **M.A. Gil**. “Measuring and modeling the escape response of wild fish”. Oral Presentation at the Society for Integrative and Comparative Biology Annual Meeting. 3-7 January. San Francisco, California, USA.
- 2017 Hein, A.M.[^] and **M.A. Gil**. “Inferring ecological rates and movement rules from time series”. Poster Presentation at Gordon Research Conference: Movement Ecology. 19-24 March. Ventura, California, USA.
- 2016 Jiao, J.[^], S. Pilyugin, **M. A. Gil**, and C. W. Osenberg. “Mobility determines consumer-resource interactions across space and time”. Poster presentation at Gordon Research Conference: Unifying Ecology. 24-29 July. University of New England, Biddeford, Maine, USA.
- 2014 **Gil, M.A.**^{^^} and A.M. Hein. “Fishbook: Do prey social networks influence predator effects on reef fishes?”, oral presentation at the 95th annual meeting of the Western Society of Naturalists, Nov. 13-16, Tacoma, Washington, USA.
- 2014 **Gil, M.A.**^{^^}, S. Goldenberg^{*^}, A. Ly Thai Bach^{*^}, S.C. Mills^{*}, and J. Claudet^{*}. “Multiple stressor effects on reef recovery: Do we kick reefs when they're down?”, oral presentation at the 43rd annual Benthic Ecology Meeting, March 19-22, Jacksonville, Florida, USA.
- 2014 Jacobson, L.M.^{^^}, M. Farrell, C.E. Fuchs[†], J. Zill[†], **M.A. Gil**[^], A. Brown[^], E. Hamman[^], and C.W. Osenberg. “The decoupling of tissue and skeletal production of corals in response to vermetid gastropods”, oral presentation at the 43rd annual Benthic Ecology Meeting, March 19-22, Jacksonville, Florida, USA.
- 2014 **Gil, M.A.**^{^^} and A.M. Hein. “Exploring *in-situ* flight responses and their mechanisms in reef fish communities”, poster presentation at the 43rd annual Benthic Ecology Meeting, March 19-22, Jacksonville, Florida, USA.
- 2014 Fuchs, C.E.[†], L.M. Jacobson[^], **M.A. Gil**[^], J. Zill[†][^], A. Brown[^], E. Hamman[^], and C.W. Osenberg. “Density dependence of vermetid gastropod mucous net withdrawal rates”, poster presentation at the 43rd annual Benthic Ecology Meeting, March 19-22, Jacksonville, Florida, USA. ***Won 3rd Place “Best Student Poster Presentation”**
- 2014 Zill, J.[†][^], **M.A. Gil**[^], and C.W. Osenberg. 2014. “Vermetid snails and sedimentation: environmental factors can become 'stressors' when combined on a coral reef.” 39th Univ. of Hawaii Albert L. Tester Symposium, March 12-14, Honolulu, Hawai‘i, USA. ***Won “Best 5-Minute Presentation”**
- 2014 Jacobson, L.M.^{^^}, M. Farrell[†], C.E. Fuchs[†], J. Zill[^], **M.A. Gil**[^], A. Brown[^], E. Hamman[^], and C.W. Osenberg. “The decoupling of tissue and skeletal production of corals in response to vermetid gastropods”, oral presentation at the North Florida Marine Science Symposium, Jan 16-17, St. Augustine, Florida, USA.
- 2014 **Gil, M.A.**^{^^} and A.M. Hein. “Exploring *in-situ* flight responses and their mechanisms in reef fish communities”, poster presentation at the Gordon Research Conference (GRC): Predator-Prey Interactions, Jan. 5-10, Ventura, California, USA.
- 2014 **Gil, M.A.**^{^^} “Risk vs. reward effects on reef fish herbivory.”, oral presentation at the Society of Integrative and Comparative Biology (SICB) Annual Meeting, Jan. 3-7, Austin, Texas.
- 2013 **Gil, M.A.**^{^^} “Risky business: How far will reef fish go for some tasty algae?”, oral presentation at the 42nd Annual Benthic Ecology Meeting (BEM), March 20-23, Savannah, Georgia, USA.

- 2013 Zill, J.^{Δ†}, **M.A. Gil^Δ**, and C.W. Osenberg. “Can ‘Spider-Snail’ and ‘The Sandman’ impose synergistic evil on our hero, *Porites* coral?”, oral presentation at the 42nd Annual Benthic Ecology Meeting (BEM), March 20-23, Savannah, Georgia, USA.
- 2013 Zill, J.^{Δ†} and **M.A. Gil^Δ**. “The role of vermetid snails on coral reefs affected by high sedimentation rates”, poster presentation at the University of Florida 5th Annual Marine Biology Symposium, Jan. 17-18, Marineland, Florida, USA.
- 2012 **Gil, M.A.^{ΔΔ}** and J. Zill[†]. “Grazing across a reefscape: Using Google Earth to measure the effects of spatial habitat features on herbivory”, oral presentation at the 41st Annual Benthic Ecology Meeting (BEM), March 21-24, Norfolk, Virginia, USA. ***Awarded 1st Place ‘Best Student Oral Presentation’**
- 2011 **Gil, M.A.^{ΔΔ}** “Evidence for a unimodal relationship between coral growth and eutrophication”, oral presentation at the 40th Annual Benthic Ecology Meeting (BEM), Mobile, Alabama, USA.
- 2011 **Gil, M.A.^{ΔΔ}** “The shape of the relationship between eutrophication and coral growth”, oral presentation at the University of Florida 3rd Annual Marine Biology Symposium. Marineland, Florida, USA.
- 2010 **Gil, M.A.^{ΔΔ}** “Eutrophication and corals: the good, the bad, and the unclear”, oral presentation at the Western Society of Naturalists (WSN) 91st Annual Meeting, San Diego, California, USA.
- 2009 **Gil, M.A.^Δ**, Dunton, K.H., and Montagna, P.A. “Rincon Bayou Overflow Project: Preliminary Hydrological Data Synthesis”, oral presentation at the City of Corpus Christi: Rincon Bayou, Nueces Delta Studies Coordination Meeting, Corpus Christi, Texas, USA.
- 2008 **Gil, M.A.^Δ** “Spatial variation in test size of the pteropods *Limacina inflata* and *Limacina trochiformis* in relation to pH across the eastern equatorial Pacific”, poster presentation at the University of Texas at Austin Undergraduate Research Forum in Austin, Texas, USA ***Awarded 2nd Place ‘Best Student Poster Presentation’ in Biology**
- 2007 **Gil, M.A.^Δ** “How does pH affect pteropod test size?”, poster presentation at SEA, S-214 Research Symposium in Woods Hole, Massachusetts, USA.

TEACHING

Marine Ecology in Akumal, Mexico

Head Instructor (16 undergraduate students)

Designed/led course as part of UF Biology’s Semester of Immersion program, designed to provide intensive research experience (includes a 3-week field research trip)

Gainesville, Florida &
Akumal, Mexico
University of Florida
Spring 2016, 2018

Maymester Field Course in Marine Botany

Co-instructor (15 to 20 undergraduates, occasional graduate students)

Lectured, led discussions and provided field instruction on seagrass and coral reef ecology and research approaches, advised student groups on field research projects, designed curriculum (for 2013, ’15, ’17 classes)

Akumal, Mexico
University of Texas
University of Florida
Summers 2011, ’13, ’15, ’17

Marine Ecology in French Polynesia

Head Instructor (10 students: 8 undergrad, 2 grad)

Gainesville, Florida &
Moorea, French Polynesia
University of Florida
Spring Extended 2014

Designed/led course, including Spring-semester lectures and discussions, and culminating in a 16-day field research trip, in which student groups engaged in original field research projects

Foundations and Frontiers in Ecology

Co-organizer and instructor (8 graduate students)

Seminar on the milestones and cutting-edge works within core topics in ecology

Gainesville, Florida
University of Florida
Fall 2012

General Ecology Laboratory,

Instructor for lab sections (42 undergraduate students)

Labs for this upper-division course teach students how to design, carry out and present field and lab based research in terrestrial and aquatic systems.

Gainesville, Florida
University of Florida
Fall 2010 & Fall 2015

Integrative Principles of Biology Laboratory II,

Instructor for lab sections (60 undergraduate students)

BSC2011L is the second core biology laboratory for biology/pre-med majors, covering organismal physiology and population/community ecology

Gainesville, Florida
University of Florida
Spring 2010

Guest Lectures

- 2017 **Gil, M.A.** “YouTubing and speaking to bring science to the people”. Creative Science Communication (graduate course, <http://ufcreativesci.com/>). Instructors: Christopher Johns & Dylan Klempner. September 7th. University of Florida, Gainesville, Florida, USA.
- 2017 **Gil, M. A.** “Carbon pollution and coral reefs”. Introduction to Environmental Science (undergraduate course). Instructor: Matthew Savoca. November 8th. University of California, Davis, California, USA.
- 2016 **Gil, M. A.** “Mass science communication: my journey into the vlogosphere”. Creative Science Communication (graduate course, <http://ufcreativesci.com/>). Instructors: Christopher Johns & Dylan Klempner. September 7th. University of Florida, Gainesville, Florida, USA.
- 2016 **Gil, M. A.** “Communicating science in the (mis-) Information Age”. Writing in the Sciences (undergraduate course). Instructor: Christopher McCracken. March 8th. University of Wisconsin, LaCross, Wisconsin, USA.
- 2013 **Gil, M.A.** “Creativity catalyzes science on all levels”. Dynamic Creativity and Strategic Innovation (undergraduate course), Instructor: Amy Bucciarelli. April 17th, University of Florida, Gainesville, Florida, USA.
- 2013 **Gil, M.A.** “Linking nutrient pollution and spatial context to reef resilience”, Tropical Marine Conservation (undergraduate course). Instructor: Loren McClenachan. Jan. 17th. Colby College. Mo‘orea, French Polynesia.

MENTORING

Advised Undergraduate Researchers (35 total, including 24 females, 4 Hispanics, 1 Pacific Islander)

- Ka'ohinani Kawahigashi, *Spring 2017*
- Tricia Janssen, *Spring 2017*
- Michael Grant, *Spring 2017*
- Christina Mallica, *Spring 2016*
- Savannah Ryburn, *Spring 2016*
- Hunter White, *Spring 2016*
- Elizabeth Mayes, *Spring 2016*
- Kristen Quintana (UF UTeach Program), *Spring 2014 – Spring 2015*
- Remy Phillips, *Fall 2013 – Spring 2015*
- Karoline Stadelmann, *Spring 2015*
- Johnathan Hutchison, *Spring 2015*
- Holly Loushin, *Spring 2015*
- Jordan Grant, *Spring 2015*
- Savannah Clapp, *Spring 2015*
- Lauren Rowsey, *Spring 2015*
- Brian Lelling, *Spring 2014 – Fall 2014*
- Christopher Li, *Spring 2014*
- Jessica Harris, *Spring 2014*
- Noah Hackney, *Spring 2013 – Spring 2014*
- Corinne Fuchs, *Spring 2013 – Spring 2014*
- Nathan Mechulan, *Spring 2014*
- Laura Haggerty, *Spring 2014*
- Reilly Barrett (UF UTeach Program), *Spring 2014*
- Mikayla Mott, *Fall 2013*
- Paula Ziadi, *Spring 2013 – Fall 2013*
- Michael Hartman (UF UTeach Program), *Spring 2013*
- Julie Zill, *Summer 2011 – Summer 2013*
- Samantha Setta, *Spring 2013*
- Mark Lopez, *Spring 2013*
- Heather Graham, *Spring 2013*
- Crystal Chaloupka, *Spring 2013*
- Hannah Petkovsek, *Spring 2011*
- Katelyn Jordan, *Spring 2011*
- Monica Traylor, *Spring 2011*
- Meridith Hedgecock, *Summer 2010*

Student scholarship and fellowship awards

- Julie Zill – National Science Foundation Graduate Research Fellow
- Corinne Fuchs – National Science Foundation Graduate Research Fellow, UF University Scholars Program Scholarship recipient,
- Noah Hackney – UF University Scholars Program Scholarship recipient

Advised Undergraduate Presentations at Undergraduate Symposia (^Δpresenter, [†]advised student)

- 2016 Mallica, C.^{Δ†}, S. Ryburn^{Δ†}, and M.A. Gil. Impacts of fish traits and tourist density on reef fish fear. Poster presentation UF Undergraduate Research Symposium, October 28th, Gainesville, Florida, USA.
- 2016 White, H.^{Δ†}, E. Mayes^{Δ†}, and M.A. Gil. Effects of tourist density on herbivory and relative abundance of algae and corals in Akumal Bay, Mexico. Poster presentation UF Undergraduate Research Symposium, October 28th, Gainesville, Florida, USA.
- 2014 Fuchs, C.E.^{Δ†}, L. Jacobson, M.A. Gil, J. Zill, A. Brown, E. Hamman, and C.W. Osenberg. Density dependence of vermetid gastropod mucous net withdrawal rates. Oral presentation at UF annual URAP Symposium, Gainesville, Florida, USA. ***Won 1st place, 'Best Oral Presentation'**
- 2013 Ziadi, P.^{Δ†} and M.A. Gil. "Balancing risk and reward in reef fish foraging behavior".

- Poster presentation at UF annual URAP Symposium. Gainesville, Florida, USA.
- 2012 Jordan, K.^{Δ†}, M. Traylor^{Δ†}, H. Petkovsek[†], M.A. Gil, N. McTigue and K. Dunton. Effects of nutrient enrichment on herbivorous reef fish consumption and abundance. Poster presentation at UT Undergraduate Research Forum. Austin, Texas, USA.

Discussions, Seminars and Events to Provide STEM Student Guidance

- “So, you’re interested in a career in science”. Discussion with University of Texas at Austin Marine Science Club, 21 March 2017.
- “Professor Dinner”, invited as a mentor to informally discuss science and science careers with undergraduate student members of the Ecological Society of America’s special program ‘Strategies for Ecology Education, Diversity and Sustainability’ (S.E.E.D.S.), UC Davis Chapter, 13 February 2017. University of California, Davis, California, USA.
- “Expert Interviews”, Marine Ecology courses taught by Dong-Ha Min, University of Texas at Austin, 9 November 2016 & 10 April 2017, Austin, Texas, USA: Served as an expert being interviewed by an undergraduate student panel about various topics in marine ecology and conservation.
- “What’s it like to be a marine biologist?” Discussion with Louisiana home school families, organized by Brad Moore of bradmoorecoaching.com. 29 September 2016.
- “How grad school works”. 2012 & 2010. Invited discussion panelist for Professor Peggy Fong’s UCLA Marine Biology class, UC Berkeley Gump Research Station, Moorea, French Polynesia.
- “The ins and outs of grad school: Tips and tricks for continuing your career in science”. 2011. Coordinated/served on discussion panel for UT Marine Biology class, Akumal, Mexico.
- “Corals, Boats, and the End of the World (as we know it): Why I am a Grad Student in Marine Biology”. 2011. Invited speaker for UF Marine Biology Club, Gainesville, Florida.

Strategies for Ecology Education, Diversity and Sustainability, Postdoctoral Mentor

Provide guidance on research, careers in science, and outreach to undergraduate members of the Ecological Society of America’s special program ‘Strategies for Ecology Education, Diversity and Sustainability’ (S.E.E.D.S.), UC Davis Chapter, *Spring Quarter 2017*—

SCIENCE COMMUNICATION & OUTREACH

SciAll.org, *Sept. 2015 - present*

Creator and chief operator of ‘mass science communication’ campaign (a registered 501(c)(3) nonprofit organization) featuring videos of scientific research and science careers ‘behind the scenes’. intended to popularize science across a broad public audience, particularly groups under-represented in the sciences.

MarineBio.org, *Nov. 2016-present*

Contributing photographer for the MarineBio Conservation Society, a nonprofit promoting education and awareness of ocean-related science, conservation, & policy: <http://marinebio.org/gallery/mike-gil/>

YouTube Channels, *May 2012 - present*

Outlet for mass science communication using videos on field research and teaching (<http://www.youtube.com/sciallorg>), including the award- winning music video “Want to be a marine

biologist?” <http://www.youtube.com/user/MikeAGil> (featured for the UC Natural Reserve System 50th Anniversary, CalDay 2015).

Personal Science Blog, *Oct. 2011 – Dec. 2014*

Blog to connect the public with my field research through writing and photography: <http://mikegil.com>

Expedition Journal & School Exchange, Plastics @ SEA North Pacific Expedition, *Oct.-Nov. 2012*

Participating Scientist, Writer and Photographer for public ship expedition journal (to “bring the public along” on the adventure), and answered weekly questions from K-12 students teachers (including those from under-privileged schools) on science and field research from 11 participating schools from across the USA (http://www.sea.edu/plastics/school_email_exchange; <http://www.sea.edu/plastics/journal>).

‘Beneath the Waves Film Festival’, *2012, 2013, 2017*

Contributing film maker to international film festival, focused on spreading insights about marine science and conservation across a diverse public viewership.

SERVICE (COMMUNITY)

Gator Nation Conservation, *Founder/President*

Student service organization that advocates environmental awareness through local service events (e.g. park/beach/campus cleanups, invasive plant removals, etc.)

Gainesville, FL

September 2009-Dec. 2010

Diving for Science Program, *Volunteer Diver*

Responsible for maintaining habitat at Aquarena Springs, home to several federally endangered species. Tasks included invasive species removal, clearing of natural upwelling vents, and sediment dispersal from native plant species

San Marcos, TX

March 2008-August 2008

Tribeta Biological Honor and Service Society, *Member*

Took part in fundraising and service events including habitat cleanup projects and Ronald McDonald House Charities meal preparation

Austin, TX

Oct. 2006 -May 2008

SERVICE (UF DEPARTMENT OF BIOLOGY)

- | | |
|---------|--|
| 2014-15 | Biology Graduate Student Association (BGSA) Graduate Representative (elected; contributing member to committee that oversees Biology graduate program) |
| 2013-14 | BGSA Vice President (elected; represented graduate students at monthly Biology faculty meetings) |
| 2012-13 | Undergraduate Research Assistantship Program (URAP) manager and symposium coordinator |
| 2012 | URAP symposium oral presentation judge |

- 2010-13 BGSa Green Rep. (liaison between Dept. and UF Office of Sustainability)
2010-11 BGSa Graduate Research Forum Committee (organized weekly graduate seminar)
2010-11 BGSa Welcoming Committee (organized event to welcome Dept. back for new year)

SERVICE (SCIENTIFIC PEER REVIEW)

Ecology ♦ Journal of Ecology ♦ Oikos ♦ Marine Ecology – Progress Series ♦ Science of the Total Environment ♦ Journal of Experimental Marine Biology and Ecology ♦ Journal of Fish Biology

SYNERGISTIC ACTIVITIES

- Learning Assistantship Program, University of Florida** Gainesville, Florida, USA
Formulated curriculum (active learning activities for community ecology) for undergraduate-led teaching program for general biology *Spring 2015*
- Connection Storymaker Workshop** Austin, Texas, USA
Participant in storytelling workshop for scientists, led by scientist-turned-filmmaker Randy Olson (part of SICB 2014) *Jan. 2014*
- French American Cultural Exchange: Ocean Bridges Workshops** Mo‘orea, French Polynesia
Participant in two international workshops with French and American professors and grad students sharing past research findings and initiating new collaborations *July 2010 & June 2011*

HONORS

- 2017 Outreach video “Eight-legged kidnapper” selected for ‘Top Resources of 2017’ by ShareMyLesson.com, American Federation of Teachers
2017 Semifinalist, David H. Smith Conservation Research Fellowship
2017 Named a [TED Fellow](#) [UF, UC Davis, SEA, Fast Company]
2014 Honorable Mention in UF Department of Biology “Best Student Paper” competition for Gil, M.A. 2013. *Ecology*. (see publications above)
2013 Science outreach music video "SAIL: Want to Be a Marine Biologist?" selected 'Best of 2012 Winner' by The Academy of Seabirds Worldwide-Arts & Sciences, Midway Atoll, Papahānaumokuākea Marine National Monument
2012 1st Place, Best Oral Presentation at the 41st Annual Benthic Ecology Meeting in Norfolk, Virginia
2008 UT Dean’s Honored Graduate (highest honor awarded by College to <1% of class)
2008 Inducted into Sigma Xi, Scientific Research Society
2008 Second Place in Biology, Best Poster at UT Undergraduate Research Forum
2008 UT Distinguished College Scholar for GPA and coursework undertaken for academic years 2005-06, 2006-07, 2007-08
2007 Induction into the Phi Beta Kappa Society

FELLOWSHIPS, SCHOLARSHIPS, AND GRANTS (TOTALING OVER \$495,000 USD)

- 2018 National Geographic Society grant for research in Thailand (\$20,520)
- 2015 NSF Postdoctoral Research Fellowship in Biology (\$138,000 USD)

Graduate (totaling over \$270,000 USD)

- 2013 Carl Storm Underrepresented Minority (CSURM) Fellowship to support participation in the 2014 Predator-Prey Interactions Gordon Research Conference (\$600)
- 2013 NSF award for participation in the 2014 Predator-Prey Interactions Gordon Research Conference
- 2012 Chateaubriand Fellowship, Embassy of France for research in French Polynesia (\$10,000)
- 2011 NSF Graduate Research Fellowship International Travel Award (\$1,000)
- 2011 Florida Sea Grant Nutrient Dynamics Fellowship (\$19,000)
- 2011 Ed Stolarz Memorial Fellowship in Marine Biology (\$1,500)
- 2010 UF Graduate Student Council Travel Awards for Spring 2011-13 (\$750)
- 2010 Ocean Bridges II Program Fellowship, awarded through a grant from the French American Cultural Exchange (FACE) Program to the University of Florida (\$5,500)
- 2010 NSF Southeast Alliance for Graduate Education and the Professorate (SEAGEP) Student Travel Award for Fall 2010 (\$650)
- 2010 UF Department of Biology Student Travel Award for Fall 2010 (\$100)
- 2010 NSF Graduate Research Fellowship (\$122,500)
- 2009 Ocean Bridges II Program Fellowship, awarded through a grant from the French American Cultural Exchange (FACE) Program to the University of Florida (\$9,000)
- 2009 University of Florida Graduate Research Fellowship (\$100,000)

Undergraduate (totaling over \$67,000 USD)

- 2007 SEA Dean's Scholarship (merit-based award; \$7,500)
- 2007 SEA Tuition Award (disciplinary, experience-based award; \$2,500)
- 2007 Phi Beta Kappa, Alpha of Texas Award of Distinction (\$500)
- 2007 UT Coop GOES Scholarship for Study Abroad in Mexico (\$1,000)
- 2007 Federal Pell and Work-Study Grants & University Tuition Grant (2004-07; \$16,077)
- 2006 Presidential Endowed Scholarship for Natural Sciences (awarded by the College of Natural Sciences, University of Texas at Austin; \$2,500)
- 2006 National SMART Grant (Science and Mathematics Access to Retain Talent; \$4,000)
- 2005 UT Coop GOES Scholarship for Study Abroad in Australia (\$1,000)
- 2004 C.R. Smith Endowed Scholarship (awarded by the University of Texas at Austin; \$2,500)
- 2004 Haraldson Foundation Scholarship (full, four-year tuition scholarship; \$23,000)
- 2004 Institute of Hispanic Culture of Houston Scholarship (academic merit based; \$1,000)
- 2004 Humble Area Chamber of Commerce Scholarship (academic merit/service based; \$500)
- 2004 Continental Airlines Scholarship (academic merit/service based; \$4,500)
- 2004 Floyd Burton Scholarship Award (academic merit/service based; \$500)

MEMBERSHIP

- American Society of Naturalists (since 2016)
- Ecological Society of America (since 2013)
- Western Society of Naturalists (since 2010)

Quantitative Spatial Ecology, Evolution and Environment NSF IGERT Affiliate (since 2009)
Sigma Xi Scientific Research Society (since 2008)

CERTIFICATIONS AND SKILLS

National Association of Underwater Instructors (NAUI): CPR/First Aid/O2 Administration (2017:
Bodega Marine Lab; UC Davis)

American Academy of Underwater Sciences: Scientific Diver (2009—)

SCUBA School International: Scientific Diver Certification (2008)

NAUI Master Diver Certification (2008)

NAUI Enriched Air Nitrox Certification (2008)

NAUI Rescue Diver Certification (2008)

Professional Association of Diving Instructors: Open Water SCUBA Diver Certification (2005)

Regular small-boat operations 3-4 months annually, 2010-2015