

SERENA HACKEROTT

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INTERESTS

Coral Reef Ecology, Environmental Epigenetics, Marine Conservation

EDUCATION

2018-PRESENT PH.D. BIOLOGY, FLORIDA INTERNATIONAL UNIVERSITY

Primary Advisor: Dr. Jose Eirin-Lopez

Research Focus: Epigenetic responses to environmental stressors in corals, and connections between environmental epigenetics and coral reef conservation.

2013-2014 M.S. MARINE SCIENCES, UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Primary Advisor: Dr. John Bruno

Thesis Title: The effect of invasive lionfish on reef fish community structure along the Mesoamerican Barrier Reef.

2009-2013 B.S. BIOLOGY, UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Highest Honors and Carolina Research Scholar; GPA: 3.673

Research Advisor: Dr. John Bruno; Minors in Chemistry and Marine Sciences

POSITIONS

AUG 2020-PRESENT [Research Assistant](#), Florida International University (FIU) Biological Sciences Department

AUG 2019-JULY 2020 [Teaching Assistant](#), FIU Biological Sciences Department

AUG 2018-PRESENT [Graduate Assistant](#), FIU NSF-CREST Center for Aquatic Chemistry and the Environment (CACH) Fellow

APR- AUG 2018 [Data Analysis Consultant](#), Marshall Islands Conservation Society (MICS) and Marshall Islands Marine Resource Authority (MIMRA)

AUG 2017-DEC 2017 [Marine Science Certificate Program Coordinator](#), College of the Marshall Islands (CMI), STEM Dept.

JAN 2016-DEC 2017 [Marine and Environmental Science Instructor](#), CMI STEM Dept.

JUNE-JULY 2015 [Instructor](#), Council on International Educational Exchange (CIEE) Research Station Bonaire

JAN-JUNE 2015 [Teaching and Research Assistant](#), CIEE Research Station Bonaire

AUG 2013-DEC 2014 [Teaching Assistant](#), University of North Carolina at Chapel Hill (UNC-CH), Biology Dept.

PUBLICATIONS

Hackerott, S., F. Virdis, P. J. Flood, D. G. Souto, W. Paez*, J. M. Eirin-Lopez. (2023) [Phenotypic plasticity is associated with epigenetic variation in two Caribbean Acropora corals](#). *Molecular Ecology* 32(17): 4814-4828 (*: Undergraduate mentee)

Beal A. P., S. Hackerott, K. Feldheim, S. Gruber, J. M. Eirin-Lopez. (2022) [Age group DNA methylation differences in lemon sharks \(*Negaprion brevirostris*\): Implications for future age estimation tools](#). *Ecology and Evolution* 12: e9226

- Hackerott, S.,** H. A. Martell, J. M. Eirin-Lopez. (2021) [Coral environmental memory: Causes, mechanisms, and consequences for future reefs](#). Trends in Ecology and Evolution 36 (11): 1011-1023 (Cover Article)
- Beal A. P., **S. Hackerott**, B. Franks, S. Gruber, K. Feldheim, J. M. Eirin-Lopez. (2021) [Epigenetic responses in juvenile Lemon sharks \(*Negaprion brevirostris*\) during a coastal dredging episode in Bimini, Bahamas](#). Ecological Indicators 127: 107793
- Hackerott, S.,** A. Valdivia, C. E. Cox, N. J. Silbiger, J. F. Bruno. (2017) [Invasive lionfish had no measurable effect on prey fish community structure on the Belizean Barrier Reef](#). PeerJ 5:e3270
- Valdivia A., J. F. Bruno, C. E. Cox, **S. Hackerott**, S. J. Green. (2014) [Re-examining the relationship between invasive lionfish and native grouper in the Caribbean](#). PeerJ 2:e348
- Hackerott, S.,** A. Valdivia, S. Green, I. Côté, C. E. Cox, L. Adkins, C. A. Layman, W. F. Precht, J. F. Bruno. (2013) [Native predators do not influence invasion success of Pacific lionfish on Caribbean reefs](#). PLoS ONE 8(7): e68259.

PRESENTATIONS

- Hackerott, S.,** J. M. Wong, J. M. Eirin-Lopez. 2023. What doesn't kill you makes you stronger? Exploring the lasting influence of environmental history on *Acropora cervicornis* corals. Benthic Ecology Meeting. Miami, Florida. April 29th. Oral.
- Gregory, L. *, **S. Hackerott**, J. M. Eirin-Lopez. 2023. Picture of health: Testing an accessible method for quantifying coral bleaching. Benthic Ecology Meeting. Miami, Florida. April 29th. Poster. (*: Undergraduate mentee)
- Hackerott, S.,** P. Flood, F. Viridis, D. G. Souto, J. M. Eirin-Lopez. 2022. Environmental and epigenetic drivers of phenotypic plasticity in *Acropora cervicornis* corals. EpiMar Conference. Woods Hole, Massachusetts. October 12th. Oral.
- Hackerott, S.,** P. Flood, F. Viridis, D. G. Souto, J. M. Eirin-Lopez. 2022. Environmental and epigenetic drivers of phenotypic plasticity in *Acropora cervicornis* corals. Reef Futures Conference. Key Largo, Florida. September 28th. Oral.
- Paez, W. *, **S. Hackerott**, J. M. Eirin-Lopez. 2022. Assessing relationships between symbiosis and metabolism of *Acropora cervicornis* corals across varying nutrient concentrations. Reef Futures Conference. Key Largo, Florida. September 28th. Poster. (*: Undergraduate mentee)
- Hackerott, S.,** P. Flood, F. Viridis, D. G. Souto, J. M. Eirin-Lopez. 2022. Environmental and epigenetic drivers of phenotypic plasticity in *Acropora cervicornis* corals. International Coral Reef Symposium. Bremen, Germany. July 8th. Oral.
- Hackerott, S.,** A. Valdivia, C. E. Cox, N. J. Silbiger, J. F. Bruno. 2017. Low lionfish, no problem? The effect of lionfish on reef fish communities in Belize. ASLO Aquatic Sciences Meeting. February 26th-March 3rd. Honolulu, HI. Oral.
- Hackerott, S.,** A. Valdivia, C. E. Cox, N. J. Silbiger, J. F. Bruno. 2015. Low lionfish, no problem? The effect of lionfish on reef fish communities in Belize. GCFI Scientific Meeting. November 9th-13th. Panama City, Panama. Oral. *Invited to Lionfish Research Symposium Session*.
- Hackerott, S.,** A. Valdivia, C. E. Cox, J. F. Bruno. 2015. Low lionfish, no problem? The effect of lionfish on reef fish communities in Belize. AMLC Scientific Meeting. May 18th-22nd. Willemstad, Curacao. Oral.
- Hackerott, S.,** A. Valdivia, C. E. Cox, J. F. Bruno. 2014. The impacts of the lionfish invasion on reef fish communities in Belize. International Marine Conservation Congress. August 14th-18th. Glasgow, Scotland. Poster.

Hackerott, S., A. Valdivia, S. Green, I. Côté, C. E. Cox, L. Adkins, C. A. Layman, W. F. Precht, J. F. Bruno. 2014. Native vs invasive predators: Can anything stop lionfish? ASLO Ocean Sciences Meeting. February 23rd-28th. Honolulu, HI. Oral.

Hackerott, S., A. Valdivia, S. Green, I. Côté, C. E. Cox, L. Adkins, C. A. Layman, W. F. Precht, J. F. Bruno. 2013. Native predators do not influence invasion success of lionfish on Caribbean reefs. Benthic Ecology Meeting. March 2013. Savannah, GA. Oral.

RESEARCH

FEB-SEP 2022 GRADUATE RESEARCHER, EIRIN-LOPEZ ENVIRONMENTAL EPIGENETICS LAB

Florida Keys: Performed three stress priming experiments exposing *Acropora cervicornis* corals to different thermal and nutrient regimes prior to a recovery and subsequent thermal challenge. Monitored survival and growth and collected samples of stress primed corals 4-months post-outplanting. Assisted in conducting Thermal Performance Curve respirometry.

JUN 2021-AUG '22 GRADUATE RESEARCHER, EIRIN-LOPEZ ENVIRONMENTAL EPIGENETICS LAB

Bonaire: Performed an acute heat stress assay to assess the thermal tolerance of *Acropora cervicornis* corals living at different nursery sites. Performed a reciprocal transplant between two sites and monitored coral growth, physiology, and acute thermal tolerance at 1 and 2 weeks, 1, 4, 8, 12 months to assess the persistence of environmental memory within coral restoration. Trained one undergraduate intern and four restoration practitioners on heat stress assay.

NOV 2020 FIU CREST-CACHE RNA-SEQ ANALYSIS WORKSHOP

Virtual: Attended the FIU CREST-CACHE RNA-Seq Analysis Workshop for FIU and UPR graduate students on bioinformatics and statistical analysis of RNA sequencing data.

DEC 2018-DEC '19 GRADUATE RESEARCHER, EIRIN-LOPEZ ENVIRONMENTAL EPIGENETICS LAB

Bonaire: Collaborated with Reef Renewal Bonaire to prepare fragments of *Acropora cervicornis* and *A. palmata* at four coral nursery sites and monitor across seasons. Trained two undergraduate interns on environmental monitoring, coral growth analysis, and coral sample collection to study connections between environmental epigenetics and coral performance.

JULY 2019 MEGA2019 FUNCTIONAL GENOMICS AND GENE EXPRESSION WORKSHOP

Florida: Attended the MEGA Functional Genomics and Gene Expression Workshop led by Dr. Mikhail Matz to learn Tag-Seq gene expression lab protocols, bioinformatics, and data analysis.

AUG 2018 FIELD VOLUNTEER, EIRIN-LOPEZ ENVIRONMENTAL EPIGENETICS LAB

Curacao: Joined the Eirin-Lopez lab on coral spawning dives in collaboration with CARMABI and SECORE. Helped mark genotyped *Acropora* colonies and monitor for signs of spawning.

APR-AUG 2018 DATA ANALYSIS CONSULTANT, MICS AND MIMRA

Marshall Islands: Created a Microsoft Access Database and a Data Analysis Guide for the Marshall Islands Marine Resource Authority (MIMRA) to store and analyze coral reef survey data collected under the RMI REIMAANLOK Strategic Management Plan, with support from the Marshall Islands Conservation Society (MICS).

APR 2018 FIELD VOLUNTEER, EIRIN-LOPEZ ENVIRONMENTAL EPIGENETICS LAB

Puerto Rico: Joined the Eirin-Lopez lab to collect *Acropora cervicornis* fragments from reefs impacted by Hurricane Irma, replanted fragments at experimental sites to monitor recovery.

JUNE 2016 **CORAL REEF SURVEYOR, COASTAL MANAGEMENT ADVISORY COUNCIL**
Marshall Islands: Identified and counted marine invertebrates as a member of the Marshall Islands Coastal Management Advisory Council (CMAC) REIMAANLOK Strategic Management Plan.

FEB-JUNE 2015 **RESEARCH ASSISTANT, CIEE BONAIRE**
Bonaire and Curacao: Helped develop and co-lead a CIEE student-staff project comparing reef assessment methods. *Bonaire:* Co-led CIEE's long-term monitoring dives for the summer.

JULY 2014 **GRADUATE RESEARCHER, BRUNO LAB ANNUAL REEF SURVEY**
Akumal, Mexico: Responsible for herbivore grazing videos using SCUBA. Assisted in the collection of parrotfish tissue samples during night dives.

MAY-JUNE 2013 **GRADUATE RESEARCHER, BRUNO LAB ANNUAL REEF SURVEY**
Belize: Completed large predator and lionfish transect surveys, identifying species and estimating sizes using SCUBA. Met with managers regarding lionfish removal efforts.

MAY-JULY 2012 **UNDERGRADUATE RESEARCHER, BRUNO LAB ANNUAL REEF SURVEY**
Belize and Abaco, Bahamas: Completed large predator and lionfish transect surveys, identifying species and estimating sizes using SCUBA. Captured, recorded weight, length, and stomach weight, and collected otoliths from 103 lionfish. *UNC IMS:* Processed and imaged 186 otoliths.

TEACHING

JUNE-AUG 2022 **UNDERGRADUATE DEVELOPMENT, ENVIRONMENTAL EPIGENETICS LAB**
Created and led professional development workshops for EELab undergraduate interns on R (data organization and analysis), resumes/cover letters, and post-graduation paths in science.

MAY-JULY 2021 **REU GRADUATE MENTOR, FIU INSTITUTE OF ENVIRONMENT**
Mentored a student in the Coastal Ecosystems Research Experience for Undergraduates (REU) program through all steps of project development, implementation, analysis, and presentation.

AUG 2019-JULY '20 **TEACHING ASSISTANT, FIU BIOLOGICAL SCIENCES DEPARTMENT**
Taught Biology 1 lab in person and online. Students included FIU undergraduates and MAST (Marine Academy of Science and Technology) dual enrollment students.

AUG-DEC 2017 **MARINE SCIENCE CERTIFICATE PROGRAM COORDINATOR, CMI STEM DEPT.**
Coordinated with Marine Science Certificate (MSC) instructors on courses and curriculum, advised MSC students, organized the CMI Marine Science Symposium to highlight student work.

AUG 2016-MAY '17 **MARINE SCIENCE CERTIFICATE PROGRAM, CMI STEM DEPT.**
Created a 30-credit [certificate program in marine science](#). Updated 6 existing courses and created 5 new courses for the program. Achieved both CMI and ACCJC program approval.

JAN 2016-DEC '17 **SCIENCE INSTRUCTOR, CMI, STEM DEPT.**
Developed and taught the curriculum for Marine Biology, Environmental Science, and Tropical Marine Ecosystems, each worth 4 credits with two lectures and one lab per week.

JUNE-JULY 2015 **INSTRUCTOR, CIEE BONAIRE**
Led lectures, discussions, and dives for Marine Biology and Ecology of the Southern Caribbean. Topics: diversity, invasive species, habitat loss, MPA's, and effects of climate change.

JAN-MAY 2015 TEACHING ASSISTANT AND RESEARCH ADVISOR, CIEE BONAIRE

Attended lectures, led students on dives to learn fish and coral identification, AGGRA and REEF surveys, video transects, and fish behavior analysis for Marine Ecology Field Research Methods. Co-advised three undergraduate students on 13-week independent research projects.

FEB, SEP, NOV 2014 GUEST LECTURER, UNC MARINE SCIENCES DEPARTMENT

Guest lecture series on coral reef ecology, coral reef conservation, and invasive species in marine ecosystems for both Introduction to Marine Sciences and Ocean Exploration courses. Guest lecture on science communication via blogging and other social media outlets for Science Communication to Diverse Audiences.

JAN-MAY 2014 TEACHING ASSISTANT, UNC ENVIRONMENTAL SCIENCES DEPARTMENT

Attended lectures, facilitated weekly discussions, held weekly office hours, and graded weekly assignments for Water in Our World.

AUG-DEC 2013 & '14 TEACHING ASSISTANT, UNC BIOLOGY DEPARTMENT

Attended lectures, led review discussions, developed assignments for students to engage scientific literature, and gave a lecture on marine invasions for Marine Ecology.

OUTREACH

SEP 2023 CORAL STRESS HARDENING FOR RESTORATION, DOMINICAN REPUBLIC

Presented my research on the potential to apply coral stress hardening to restoration during the Iberostar Coastal Ecosystem Conservation and Restoration Week (*Invited Speaker*).

AUG 2022 REEF RENEWAL THERMAL ASSESSMENT TRAINING, BONAIRE

Trained Reef Renewal Foundation Bonaire staff on the set up and implementation of an acute coral thermal stress assessment experiment that can be conducted without an aquarium facility.

FEB 2022 KML OPEN HOUSE, KEYS MARINE LABORATORY, FLORIDA KEYS

Presented to local community members during the Keys Marine Laboratory Open House including description of an ongoing research project and coral biology and conservation.

DEC 2021 STINAPA JUNIOR RANGERS PRESENTATION, BONAIRE

Presented an introduction to coral environmental memory, environmental epigenetics, and applications to coral conservation to the STINAPA Junior Rangers (virtual).

APR 2020-FEB '21 CORAL TRAFFICKING TASKFORCE, FIU AND FLORIDA FWC

Developed coral identification workshop to train Florida FWC officers in the identification of endangered and protected (ESA) Caribbean coral species to combat coral trafficking.

SEP 2017 & MAY '18 DATA ANALYSIS AND R WORKSHOPS, MIMRA, MARSHALL ISLANDS

Led two workshops to training employees of the Marshall Islands Marine Resource Authority (MIMRA) in the analysis of coral reef survey data (both fish and benthic data) using R.

APR 2017 COMMUNITY PRESENTATION AT RMI NATIONAL OCEANS SYMPOSIUM

Presented an introduction to coral biology and ecology, as well as the importance of coral reefs, to RMI community members the National Oceans Symposium Community Events

- FEB-MAR 2017** **SCIENCE COMMUNICATION WORKSHOPS, ASLO ASM, HONOLULU, HI**
 Attended workshops at ASLO ASM 2017 by Bob Chen and Brian Palermo to further develop science communication skills especially in teaching introductory science courses.
- JAN-APR 2017** **RMI NATIONAL OCEANS SYMPOSIUM, CMAC, MARSHALL ISLANDS**
 Collaborated with local agencies, especially Marshall Islands Marine Resource Authority, to organize and execute the first National Oceans Symposium on Majuro, Marshall Islands.
- JAN-MAY 2017** **STUDENT INTERNSHIPS IN MARINE SCIENCE, MARSHALL ISLANDS**
 Collaborated with local marine agencies to organize internships for CMI students to gain field experience in marine science or marine conservation on Majuro, Marshall Islands.
- JUNE 2016** **REMAANLOK COMMUNITY PRESENTATION, CMAC, MARSHALL ISLANDS**
 Helped develop a presentation describing the importance of coral reefs and explaining the REMAANLOK plan for local communities on three remote atolls in the Marshall Islands.
- JAN-JUN 2015** **STINAPA JUNIOR RANGERS, CIEE BONAIRE**
 Assisted in developing curricula and leading weekly lectures and hands-on activities for the Junior Rangers, the local youth conservation organization on Bonaire. Helped develop workshops on shark biology, ecology, and conservation for Shark Month. Assisted in judging and moderating debate on shark conservation along with Angelo Villagomez (The Pew Foundation).
- MAR-APR 2015** **PUBLIC PRESENTATIONS, CIEE BONAIRE**
 Gave presentations on my undergraduate and graduate research to local community members.
- OCT '14 & JAN '15** **CAREER FAIR PRESENTATIONS AT LOCAL MIDDLE SCHOOLS, RALEIGH, NC**
 Gave presentations to the 6-8th grade Science Explorers of Dillard Drive Middle School and Career Fair for Mills Park Middle School about marine ecology and careers in marine sciences.
- NOV 2014** **LED UNC IDEA SCIENCE COMMUNICATION WORKSHOP, UNC**
 Led a workshop for UNC IDEA (Increasing Diversity and Enhancing Academia) undergraduate students on ways to communicate their science to various audiences.
- AUG 2014** **WROTE ARTICLE FOR DAN'S ALERT DIVER MAGAZINE**
 Wrote an "Expert Comment" article for Alert Diver titled [Hazardous Conditioning](#) to explain the danger of the misguided practice of feeding speared lionfish to predators.
- FEB 2014** **SCIENCE COMMUNICATION WORKSHOPS, ASLO OSM, HONOLULU, HI**
 Attended workshops at ALSO OSM 2014 by Randy Olsen, Ari Daniel, and Christie Wilcox to further develop scientific outreach, education, storytelling, and presentation skills.
- JAN-MAY 2013** **SCIENCE COMMUNICATION AND OUTREACH COURSE, UNC**
 Developed outreach skills through scientific storytelling, social media, magazines or newspapers, speaking to policy makers, and in elementary to high school level classes.
- OCT 2013** **CO-FOUNDED UNDERTHEC BLOG, UNC**
 Co-founded [UNdertheC Blog](#), a blog by Marine Sciences graduate students at UNC with the goal of making marine science accessible and interesting to the general public.
- OCT 2013** **SCIENCE ONLINE OCEANS CONFERENCE, MIAMI, FL**

Attended the Science Online Oceans Conference to further my outreach skills and learn new techniques to communicate science and conservation to the public.

SKILLS

FIELD METHODS

- Coral restoration methods (nursery trees and outplanting)
- Coral thermal tolerance assessments (laboratory and field-based)
- Reef survey protocols
- Identification and size estimation of Caribbean fish and coral species
- Identification of Pacific marine invertebrates
- Otolith removal, processing, and basic reading experience

LAB METHODS

- Coral physiological assays
- DNA and RNA extraction
- Epigenetic (DNA methylation) and transcriptomic (gene expression) characterization
- Respirometry

DATA MANAGEMENT AND ANALYSIS

- R
- GitHub
- Microsoft Access

DIVING EXPERIENCE

- PADI Dive Master; 350+ logged dives
- AAUS Scientific Diver (60ft); 150+ logged AAUS dives
- Underwater photography and video experience

ADDITIONAL CERTIFICATIONS

- American Red Cross Adult CPR and First Aid
- DAN Oxygen First Aid for Scuba Diving Injuries
- IYT Crew Member and Navigation Master; 40 days sailing experience

ACHIEVEMENTS

GRANTS

2022	FIU CREST-CACHe Graduate Student Travel Support	\$1,620
2022	FIU CREST-CACHe Graduate Student Travel Support	\$1,590
2021	FIU Women Explorers Award	\$1,000
2021	FIU CREST-CACHe Graduate Student Research Support	\$2,000
2021	FIU University Graduate School Graduate Student Research Support	\$1,200
2021	Judith Evans Parker Travel Scholarship	\$850
2020	Lerner Gray Memorial Fund for Marine Research	\$1,700
2020	Wave of Change Rebuilding Coral Reefs Scholarship	\$5,000
2020	FIU Institute of Environment Graduate Research Award	\$4,000
2020	Friends of Gumbo Limbo Graduate Student Research Grant	\$2,500
2020	FIU Center for Coastal Ocean Research (CCOR) Travel Award	\$500
2019	FIU CREST-CACHe Graduate Student Research Support	\$2,448

2019	FIU Center for Coastal Ocean Research (CCOR) Travel Award	\$1,000
2019	Judith Evans Parker Travel Scholarship	\$500
2019	FIU Tropics Graduate Student Research Grant	\$3,000
2018	FIU Tropics Graduate Student Travel Grant	\$1,500
2012	UNC Summer Undergraduate Research Fellowship (SURF)	\$3,000

HONORS

2022	Graduate Women in Science National Fellowship Honorable Mention
2021	Ford Foundation Predoctoral Fellowship Honorable Mention
2020	Ford Foundation Predoctoral Fellowship Honorable Mention
2019	Ford Foundation Predoctoral Fellowship Honorable Mention
2018-24	NSF-CREST Center for Aquatic Chemistry and the Environment (CACHÉ) Fellow
2018	GRE Verbal: 163; GRE Quantitative 158
2013	Highest Honors Biology and Carolina Research Scholar Program
2009-13	UNC Dean's List
2012	GRE Quantitative: 165; GRE Verbal:163

SERVICE

2023	Reviewer for Communications Biology
2023	Reviewer for Coral Reefs
2020-22	Florida International University Biology Graduate Student Committee
2018-20	Florida International University Biosymposium Planning Committee
2016-17	College of the Marshall Islands Curriculum Committee
2016-17	Marshall Islands Coastal Management Advisory Council (CMAC)
2015-17	AMLC Communications Committee
2015	Reviewer for Aquatic Biology
2015	Student Poster Judge at AMLC Scientific Meeting
2014	Reviewer for Coral Reefs
2013	Reviewer for the NOAA/NMFS Saltonstall Kennedy Grant

MENTORSHIP

2022-23	Environmental Epigenetics Lab (EELab) Undergraduate Volunteers: Lauren Gregory, Carly Travers
2023	EELab Undergraduate Research Experience: Sabrina Mansoor
2023	Benthic Ecology Meeting Poster: Lauren Gregory (FIU/EELab Undergraduate)
2022	Reef Futures Conference Poster: Wendy Paez (FIU/EELab Undergraduate)
2021	EELab Undergraduate Volunteers: Pascal Escobar, Alyxandra Cicerella, Emily Donohue
2021	FIU Institute of Environment Coastal Ecosystems REU: Jack Howard
2020	EELab Undergraduate Volunteers: Wendy Paez, Katie Molina, Ernesto Campos
2019	EELab Undergraduate Volunteers: Zachary Howard, Grant Burdine, Alexander Marino
2017	CMI Marine Science Certificate: Rolandon Adde, Sabrina Bejang, Marlynn Benjamin, Kyle Bing, Thurston Loeak, Meriana Poznanski, Juddson Nelson, Salome Rubon, Dua Rudolph
2017	ASLO Ocean Sciences Meeting: Salome Rubon and Karmina Jude (CMI Undergraduate)

REFERENCES

RESEARCH-SPECIFIC REFERENCES

Dr. Jose Eirin-Lopez [Ph.D. Advisor] jeirinlo@fiu.edu

Dr. Hollie Putnam [Ph.D. Committee Member] hputnam@uri.edu

Dr. John Bruno [B.S. and M.S. Advisor] jbruno@unc.edu

KEY COLLABORATOR REFERENCES

Francesca Virdis [Reef Renewal Bonaire Chief Operating Officer]
francesca@reefrenewalbonaire.org

Emma Kabua [Republic of the Marshall Islands Protected Areas Network
Coordinator] ekabua.tibon@mimra.com

ADDITIONAL TEACHING REFERENCES

Ernest Canonigo [CMI Supervisor, Previous STEM Chair] ecanonigo@cmi.edu

Dr. Patrick Lyons [CIEE Supervisor] lyonspj@lavc.edu