

Aaron Hartman

Curriculum Vitae – October 2014

EMPLOYMENT

Postdoctoral Scholar, 2014–present

Smithsonian Institution and San Diego State University

EDUCATION

Ph.D., Marine Biology, 2014

Scripps Institution of Oceanography, University of California San Diego

NSF GK-12 Fellow, 2012-2013

NSF Graduate Research Fellow, 2009-2012

NSF IGERT Fellow, 2007-2009

M.S., Oceanography, 2010

Scripps Institution of Oceanography, University of California San Diego

B.S., Biology, 2007

University of Vermont

Minor: Environmental Science

PUBLICATIONS

Peer-reviewed articles

Hartmann, Aaron C., Kristen L. Marhaver, Valerie F. Chamberland, Stuart A. Sandin, & Mark J. A. Vermeij (2013) Large birth size does not reduce the negative latent effects of harsh environmental conditions across early life stages in two coral species. *Ecology* 94(9): 1966-1976.

Trentacoste, Emily M., Roshan P. Shrestha, Sarah R. Smith, Corine Gle, Aaron C. Hartmann, Mark Hildebrand, & William H. Gerwick (2013) Metabolic engineering of lipid catabolism increases microalgal lipid accumulation without compromising growth. *Proceedings of the National Academy of the Sciences* 110(49): 19748-19753.

Carilli, Jessica E., Simon D. Donner, & Aaron C. Hartmann (2012) Historical temperature variability affects coral response to heat stress. *PLoS ONE* 7(3): e34418. doi:10.1371/journal.pone.0034418.

Hartmann, Aaron C., Jessica E. Carilli, Richard D. Norris, Christopher Charles, & Dimitri D. Deheyn (2010) Stable isotopic records of bleaching and endolithic algae blooms in the skeleton of the boulder forming coral *Montastraea faveolata*. *Coral Reefs* 29:1079-1089.

Han, Seunghee, Priya Narasingarao, Anna Obraztsova, Joris Gieskes, Aaron C. Hartmann, Bradley M. Tebo, Eric E. Allen, & Dimitri D. Deheyn (2010) Mercury Speciation in Marine Sediments under Sulfate-Limited Conditions. *Environmental Science and Technology* 44: 3752-3757.

Druschel, Gregory K., Aaron C. Hartmann, Rachel Lomonaco, & Kenneth Oldrid (2005) Determination of sediment phosphorus concentrations in St. Albans Bay, Lake Champlain: Assessment of internal loading and seasonal variations of phosphorus sediment-water column cycling. Report to the Vermont Agency of Natural Resources, 71 p.

Commentary articles

Hartmann, Aaron C. (2013) Education: Science literacy benefits all. *Nature* 498: 171.

Hartmann, Aaron C. & Lisa A. Levin (2012) Conservation Concerns in the Deep. *Science* 336: 668-669.

Hartmann, Aaron C. (2011) The tall risk of Marfan syndrome. *Science* (online only).

Popular press articles

Hartmann, Aaron C. "Science Minded" blog. *Union Tribune San Diego* online (biweekly).

- I authored a blog hosted by San Diego's largest newspaper comprised of 12 posts intended to introduce students, parents and teachers to the many aspects of science through my professional and personal experiences as a marine biologist.

Hartmann, Aaron C. (2012) "The Lightning of Catatumbo." *Sage Magazine*.

- I authored a creative nonfiction piece about the complex relationship between human needs and coral reef conservation on Curaçao, where I conducted the majority of my doctoral research. (Available at: <http://bit.ly/Ylq3wr>). Selected for the 2013 annual print edition.

PRESS COVERAGE OF TEACHING AND SCIENCE

“Socrates Fellow Brings Coral Research to Local High School” (2013) *This Week @ UC San Diego*. Available at: <http://bit.ly/1aw8v8m>

“Population convinced of importance of nature conservation” (2013) *Amigoe newspaper, Curaçao*.

“Protest mail from America” (2013) *Amigoe newspaper, Curaçao*.

“Oostpunt Plans: Fatal Impact On Reefs Along The Entire South-Eastern Coast” (2013) *Curacao Chronicle, Curaçao*.

“Reefs will die with development of Oostpunt” (2012) *Amigoe newspaper, Curaçao*.

APPOINTMENTS

Postdoctoral Research Fellow, 2014–present

National Museum of Natural History, Smithsonian Institution, Washington, DC

Affiliate Researcher, 2008–present

Carmabi Research Station, Willemstad, Curaçao

Graduate Student Intern, Jun–Aug 2009

Hawai'i Division of Aquatic Resources, Maui, Hawai'i

Marine Ecology Intern, Aug 2006–Feb 2007

Beijer International Institute of Ecological Economics, Royal Swedish Academy of the Sciences, Stockholm, Sweden

Undergraduate study abroad student, Jun–Jul 2005

The Center for Coastal Studies, Puerto San Carlos, Mexico

TEACHING AND MENTORING

Lecturer and short course co-organizer, 2014

San Diego State University

- Organized a three-week summer course on microbial ecology and coral reef ecology for Diversity Project students (Indonesian and American HBCU undergraduates).
- Gave three full-class lectures on global biodiversity patterns, coral reef ecology, and tropical marine fieldwork.

Graduate Teaching Assistant, 2014

University of California San Diego

- Served as a TA for Biological Oceanography class of more than 100 students (Lecturer: Dr. Michael Landry).
- Prepared and taught two 45-minute review sections per week (student evaluations available upon request).
- Gave one full-class lecture titled “Coral reef ecosystems.”

Biology class guest lecturer, 2013

Escondido Charter High School, Escondido, CA

- Gave one full-class lecture titled “Adventures in topical marine biology.”

National Science Foundation GK-12 Teaching Fellow, 2012-2013

High Tech High North County, San Marcos, California

- Prepared and taught weekly marine biology and marine husbandry lessons to sixty students for a full school year.
- Acquired funding for and oversaw a fifteen-tank coral health experiment in a high school classroom that involved sixty students.

Science Coach for National Ocean Sciences Bowl, 2007-2012

San Ysidro High School and Escondido Charter High School, California

- Coached and taught lessons for five consecutive years to teams of high school students preparing San Diego County’s annual ocean science scholars’ bowl competition (NOSB).

Graduate Student Mentor, 2009–2012

Scripps Institution of Oceanography, University of California San Diego

- Guided and advised four summer and term-long undergraduate interns through independent research projects in the laboratory.

VOLUNTEERING AND SERVICE

Husbandry Volunteer at Birch Aquarium at Scripps Institution of Oceanography, 2009-2012

La Jolla, California

- Assisted husbandry staff by maintaining and caring for organisms throughout the aquarium, and in particular the stony corals and other coral reef organisms.
- Volunteered for over 300 hours over three years.

Ad Hoc Journal Reviewer

- *Coral Reefs, Marine Biology*, and international funding agencies

Professional Memberships

- International Society of Reef Studies, Ecological Society of America, Society for Conservation Biology

ACADEMIC AWARDS AND FELLOWSHIPS

- 26th International Congress for Conservation Biology Student Award Runner-up, 2013
- *Sage Magazine* annual print edition selection for “The Lightning of Catatumbo,” 2013
- National Science Foundation GK-12 Fellow, 2012-2013
- National Science Foundation Graduate Research Fellow, 2009-2012
- National Science Foundation IGERT Fellow, 2007-2009
- Richard Barrett Scholarship Recipient, 2006
- Hawley Award for Undergraduate Research in Geology, 2005

- HELiX Summer Internship Recipient, 2004
- Golden Key International Honor Society, 2004-2007
- National Society of Collegiate Scholars, 2003-2007

CONFERENCE PRESENTATIONS AND INVITED TALKS

University of Vermont Biology Department Seminar (invited speaker), 2013

Burlington, Vermont

- Title: Energetic and reproductive patterns in Caribbean stony corals

26th International Congress for Conservation Biology (15-minute oral presentation), 2013

Baltimore, Maryland

- Title: High energy content and fecundity of healthy coral reefs in Curaçao (with K. Marhaver & M. Vermeij)
- Selected as 4th place winner in the Student Award Symposium out of over 100 applicants.

Escondido Charter High School Leadership Conference (invited speaker), 2013

Escondido, California

- Title: What my heart and coral reefs can teach us about leadership

12th International Coral Reef Symposium (15-minute oral presentation), 2012

Cairns, Australia

- Title: Linking parental energetics and larval recruitment success in *Agaricia humilis* (with K. Marhaver & M. Vermeij).