

SARAH GIGNOUX-WOLFSOHN

CONTACT

sarah.gignouxwolfsohn@rutgers.edu
114 College Farm Road, New Brunswick, NJ, 08904
610.724.3602

EDUCATION

April 2016

PhD, Ecology, Evolution, and Marine Biology
Northeastern University, Boston, MA
Thesis title: Towards a Better Understanding of White Band Disease: Transmission, Causes, and Effects
Committee: Drs. Steven Vollmer, Geoffrey Trussell, Melissa Garren, Jonathan Grabowski, and Yunrong Chai

May 2010

B.A., Biology and French, Honors in Biology
Wesleyan University, Middletown, CT
Thesis title: Methylation and Pigmentation in the Three-Spine Stickleback
Advisor: Dr. Barry Chernoff

PROFESSIONAL APPOINTMENTS

September 2016-Present

Postdoctoral Associate
Department of Ecology, Evolution, and Natural Resources
Rutgers University, New Brunswick, NJ

PUBLICATIONS

2015

Gignoux-Wolfsohn SA, Vollmer SV (2015) Identification of Candidate Coral Pathogens on White Band Disease-Infected Staghorn Coral. *PLOS ONE* DOI: 10.1371/journal.pone.0134416.

Fuess L*, Eisenlord M*, Closek C*, Tracy A*, Mauntz R*, **Gignoux-Wolfsohn SA***, Moritsch M M*, Yoshioka R*, Burge CA, Harvell CD, Friedman CS, Hewson I, Hershberger PK, Roberts S (2015) Up In Arms: Immune and Nervous System Response to Sea Star Wasting Disease. *PLOS ONE*

DOI:10.1371/journal.pone.0133053.

**Authors contributed equally to this work.*

2012

Gignoux-Wolfsohn SA, Marks CJ, Vollmer SV (2012) White Band Disease Transmission in the Threatened Coral, *Acropora cervicornis*. *Scientific Reports* 2: 804 DOI:10.1038/srep00804.

2011

Tipton M, **Gignoux-Wolfsohn SA**, Stonebraker P, Chernoff B (2011) Postglacial Recolonization of the Eastern Blacknose Dace, *Rhinichthys atratulus* (Teleostei: Cyprinidae), Through the Gateway of New England. *Ecology and Evolution* 1(3): 343-358 doi:10.1002/ece3.31.

AWARDS / FELLOWSHIPS / FUNDING

- Jan.-May 2016* Dissertation Completion Fellowship, \$10,930
(Northeastern University)
- Sept. 2011-May 2016* University Excellence Fellowship (Northeastern University) \$25,000
- May 2014* Experiment.com campaign \$6,300
<https://experiment.com/projects/what-is-killing-caribbean-corals-investigating-a-devastating-coral-disease>
- May 2013* Honorable Mention, Biology department graduate student presentation competition (Northeastern University)
- Apr. 2013* Honorable Mention, NSF Graduate Research Fellowship Program
- Sept.-Dec. 2009* Mellon Foundation Fellowship (Wesleyan University)
- June-Aug. 2009* Howard Hughes Foundation Fellowship (Wesleyan University)

PRESENTATIONS

- March 2016* Benthic Ecology Meeting, Portland, ME
Who, Where, When? Using Time Series Data to Understand the Roles of Bacteria in Diseased and Healthy *Acropora cervicornis* (oral)
Sarah A. Gignoux-Wolfsohn, Felicia M. Aronson, Steven V. Vollmer
- Feb. 2016* Ocean Sciences Meeting, New Orleans, LA
Temporal Sampling of White Band Disease Infected Corals Reveals Complex and Dynamic Bacterial Communities (poster)
Sarah A. Gignoux-Wolfsohn, Felicia M. Aronson, Steven V. Vollmer
- July 2015* Applied and Environmental Microbiology Gordon Research Conference, Mount Holyoke, MA
Understanding the Time-Course of White Band Disease Infection in the Endangered Staghorn Coral Using 16S Sequencing (poster)
Sarah A. Gignoux-Wolfsohn, Felicia M. Aronson, Steven V. Vollmer
- May 2015* American Society of Microbiology General Meeting, New Orleans, LA
Understanding the Time-Course of White Band Disease Infection in the Endangered Staghorn Coral Using 16S Sequencing (poster)
Sarah A. Gignoux-Wolfsohn, Felicia M. Aronson, Steven V. Vollmer
- May 2014* American Society of Microbiology General Meeting, Boston, MA
White Band Disease Bacterial Communities in the Threatened Staghorn Coral (poster)
Sarah A. Gignoux-Wolfsohn and Steven V. Vollmer
- May 2013* American Society of Microbiology General Meeting, Denver, CO
Next Generation 16s Profiles of White Band Disease in the

Threatened Coral, *Acropora cervicornis* (poster)
Sarah A. Gignoux-Wolfsohn and Steven V. Vollmer

July 2010 Joint Meeting of Ichthyologists and Herpetologists, Providence, RI
Methylation and Pigmentation in the Three-Spine Stickleback,
Gasterosteus aculeatus (poster)
Sarah Gignoux-Wolfsohn and Barry Chernoff

July 2009 Joint Meeting of Ichthyologists and Herpetologists, Portland, OR
Phylogeography of the Blacknose Dace, *Rhynchichthys atratalus* in
the Connecticut and Adjacent River Basins (poster)
Michelle Tipton, Sarah A. Gignoux-Wolfsohn, Phoebe Stonebraker,
Barry Chernoff

RESEARCH EXPERIENCE

Sept. 2007-Oct. 2010 Chernoff Lab, Wesleyan University
Lab Assistant

Aug.-Dec. 2008 Eichmann Lab, Collège de France, Paris, France
Lab Assistant

June-Aug. 2007 The Center For Applied Genomics, The Children's Hospital of
June-Aug. 2008 Philadelphia, Lab Assistant

TEACHING EXPERIENCE

(Northeastern University)

Sept.-Dec. 2015 Teaching Assistant, Genetics Lab

Sept.-Dec. 2014 *Solo-taught lab*

Sept.-Dec. 2013

Sept.-Dec. 2012

Jan.-Mar. 2015 Teaching Assistant, Biology of Corals

Jan.-Mar. 2013 Three Seas Program, Bocas Del Toro, Panama

Jan.-Mar. 2012 *Designed and taught lab*

Jan.-Apr. 2014 Teaching Assistant, Bioinformatics seminar
Designed and taught course

Sept.-Dec. 2011 Teaching Assistant, Principles of Biology I

OUTREACH / MENTORSHIP / SERVICE

Nov. 2016-Present Member NSF INCLUDES planning team, Rutgers University

Aug. 2016 Experiment.com grants officer, coral reef challenge grant

Apr. 2016 Career panel for Juniors and Seniors
(*The Baldwin School, Bryn Mawr, PA*)

Nov. 2015 Three Seas graduate student panel

Oct. 2015 NU Marine Science Center open house

Oct. 2013
Oct. 2012
Designed and implemented an activity to educate families about the impacts of plastic waste on marine ecosystems by creating a coral reef out of beach waste

Jan. 2015
Biology of corals student blog: <http://3seascorals.tumblr.com/>

2014-Present
Experiment.com project: <https://experiment.com/projects/what-is-killing-caribbean-corals-investigating-a-devastating-coral-disease>

2014
Hadley Elementary School Science Night
Recreated plastic waste activity focusing on the local rocky intertidal ecosystem

2016
2014
2013
Presentation on coral disease to Swampscott High School students

2012
Cambridge Science Festival

2008-2010
Wesleyan University after school science club
Met weekly with local elementary school children to perform

Mentoring Undergraduate and Masters Students:

Felicia Aronson (*Northeastern University*)
Kara Wiggin (*B.S. 2014, Northeastern University*)
Stephen Heck (*M.S. 2014, Northeastern University, current PhD student SUNY Stonybrook*)
Jennifer Davidson (*M.S. 2014, Northeastern University, current lab tech at HIMB*)

CERTIFICATIONS / MEMBERSHIPS

AAUS certified scientific diver
American Society for Microbiology
Association for the Sciences of Limnology and Oceanography

SKILLS

Fluent in spoken and written French
Basic communication skills in Spanish
Proficient in: R, Python, unix shell, SQL, jupyter
Familiar with EC2 and other amazon web services