Sarah Gignoux-Wolfsohn C	urriculum Vitae
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SARAH GIGNOUX-WOLFSOHN

CONTACT gw.sarah@gmail.com 610.724.3602

EDUCATION

April 2016 PhD, Ecology, Evolution, and Marine Biology, Northeastern University May 2010 B.A., Biology and French, Honors in Biology Wesleyan University

PROFESSIONAL APPOINTMENTS (2016-Present)

Sept. 2022-Present Assistant Professor, Department of Biological Sciences, University of

Massachusetts Lowell

Oct. 2020-Present Postdoctoral Ecologist, Smithsonian Environmental Research Center.

April 2020-Present Woman in Ocean Sciences Scholar, Central Caribbean Marine Institute
Sept. 2018-Oct 2020 Postdoctoral Fellow, Smithsonian Environmental Research Center.

Sept. 2016-2018 Postdoctoral Associate, Rutgers University

PEER-REVIEWED PUBLICATIONS

Rosenau N, **Gignoux-Wolfsohn SA**, Everett RA, Miller AW, Minton M,

Ruiz GM (2021) Considering Commercial Vessels as Potential Stony Coral

Tissue Loss Disease Vectors. Frontiers in Marine Science.

https://doi.org/10.3389/fmars.2021.709764

Barley J, Cheng B, Sasaki M, **Gignoux-Wolfsohn SA**, Hays CG, Putnam

A, Sheth S, Villeneuve A, Kelly M (2021) Limited Plasticity in Thermally Tolerant Populations: Evidence for a Trade-Off. *Proceedings of the Royal*

Society B. https://doi.org/10.1098/rspb.2021.0765

2021 Leray M, Wilkins L...Gignoux-Wolfsohn SA...Eisen J (2021) Natural

experiments in the sea as observatories of host-microbe ecology and evolution. *PLoS Biology*. https://doi.org/10.1371/journal.pbio.3001322

2021 Kong JD, Tekwa EW, Gignoux-Wolfsohn SA (2021) Social, economic, and

environmental factors influencing the basic reproduction number of

COVID-19 across countries. PLoS One.

https://doi.org/10.1371/journal.pone.0252373

2021 Gignoux-Wolfsohn SA, Pinsky ML, Herzog CJ, Bennett A, Kerwin K,

Fefferman N, Hall M, Maslo B (2021) Genomic Signatures of Selection in

Bats Surviving White-Nose Syndrome. *Molecular Ecology*.

https://doi.org/10.1111/mec.15813

Subject of a *Molecular Ecology* News and Views piece:

https://doi.org/10.1111/mec.16181

2020 Gignoux-Wolfsohn SA, Newcomb MSR*, Ruiz GM, Pagenkopp Lohan K

(2020) Environmental factors drive release of Perkinsus marinus from

infected oysters. Parasitology. https://doi.org/10.1017/S0031182020002383

2020 Arias M*, Gignoux-Wolfsohn SA, Kerwin K, Maslo B (2020) Factors

Influencing Bat Occupancy of Artificial Roost Boxes. Northeastern

Naturalist. https://doi.org/10.1656/045.027.0203

2020	Drake E, Gignoux-Wolfsohn SA , Maslo B (2020) Systematic Review of
	the Roost-Site Characteristics of North American Forest Bats: Implications
	for Conservation. <i>Diversity</i> . https://doi.org/10.3390/d12020076
2019	Gignoux-Wolfsohn SA, Precht WF, Peters EC, Gintert BE, Kaufman LS
	(2019) The Ecology, Microbial Ecology, and Histopathology of a White Band
	Disease Outbreak in the Threatened Staghorn Coral, Acropora cervicornis.
	Diseases of Aquatic Organisms. https://doi.org/10.3354/dao03441
2017	Gignoux-Wolfsohn, SA, Aronson FM*, Vollmer SV (2017) Complex
	interactions between potentially pathogenic, opportunistic, and resident
	bacteria emerge during infection on a reef-building coral. FEMS
	Microbiology Ecology. https://doi.org/10.1093/femsec/fix080
2017	Maslo B, Gignoux-Wolfsohn SA , Fefferman N (2017) Success of Wildlife
	Disease Treatment Depends on Host Immune Response. Frontiers in
	Ecology and Evolution. https://doi.org/10.3389/fevo.2017.00028
2015	Gignoux-Wolfsohn SA and Vollmer SV (2015) Identification of Candidate
	Coral Pathogens on White Band Disease-Infected Staghorn Coral. <i>PLoS</i>
	One. https://doi.org/10.1371/journal.pone.0134416
2015	Fuess L*, Eisenlord M*, Closek C*, Tracy A*, Mauntz R*,
	Gignoux-Wolfsohn SA*, Moritsch MM*, 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. https://doi.org/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. https://doi.org/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. https://doi.org/10.1002/ece3.31
	❖ Undergraduate author

TECHNICAL REPORTS

2021

Everett, RA, **Gignoux-Wolfsohn, SA**, Miller, AW, Minton, MS, Rosenau, NA, Ruiz, GM (2021) Patterns of ballast water management in US waters in the greater Caribbean during the Stony Coral Tissue Loss Disease outbreak (2014-2020): analyses of National Ballast Information Clearinghouse data. Effect of USCG MSIB. National Ballast Information Clearinghouse February 23, 2021 https://nbic.si.edu/wp-content/uploads/2017/09/MSIB.07.19 SCTLD analysis.pdf

PUBLICATIONS IN REVIEW

In Review

Gignoux-Wolfsohn SA, Dunn D, Cleary J, Halpin PN, Anderson CR, Bax NJ, Canonico G, Chaniotis P, Deland S, Diorio M, Gaines SD, Grorud-Colvert K, Johnson DE, Levin LA, Lundquist CJ, Manca E,

Sarah Gignoux-Wol	fsohn
In Review	Metaxas A, Monaco ME, Morgan L, Mumby PJ, Nisthar D, Pashkow B, Pike EP, Pinsky ML, Ribera MM, Stanley RRE, Sullivan-Stack J, Sutton TT, Tittensor DP, Weatherdon LV, Wenzel L, Duffy JE (<i>In Review, Science</i>) A scientific foundation for assessing and protecting marine biodiversity in United States waters Sasaki M, Barley J, Gignoux-Wolfsohn SA , Hays C, Kelly M, Putnam A, Seema N. Sheth , Andrew R. Villeneuve , and Brian S. Cheng (<i>In Review, Nature Climate Change</i> , preprint: https://10.21203/rs.3.rs-987225/v1) Greater local adaptation to temperature in the ocean than on land
PUBLICATIONS IN <i>In Prep</i>	PREP (draft manuscripts available upon request) Pagenkopp Lohan KM, Gignoux-Wolfsohn SA, Ruiz GM, (In Prep) Community Interactions Impact Marine Disease Dynamics
In Prep	Gignoux-Wolfsohn SA , Pagenkopp Lohan KM (<i>In Prep</i>) Parasites Transform Biodiversity-Ecosystem Function Relationships
GRANTS (\$722,793 Sept. 2022-Aug. 2026	to SGW) NSF Organismal Response to Climate Change, Donelan S, Gignoux-Wolfsohn S, Miller T: Carryover effects of multiple climate change stressors in oysters: mechanisms and consequences across stages of ontogeny (\$1,267,102; \$502,628 to UML)
Dec 2021-Dec 2023 Oct 2021-Oct 2023	Paul Angell Family Foundation, Gignoux-Wolfsohn S : Identifying biomarkers of resistance to Stony Coral Tissue Loss Disease <i>\$75,000</i> National Institutes of Health, Lohan K, Gignoux-Wolfsohn S , Burge C, Dikow R: Employing biofilters to detect human pathogens in Mid-Atlantic
Feb. 2017-2018	US waters \$105,252 U.S. Fish and Wildlife Service. Maslo B, Gignoux-Wolfsohn S , Pinsky M, and Hines B: Identifying Genetic Signatures of Selection in Multiple Bat Hosts \$39,913
SUBMITTED GRAN	NTS (Submission date listed) Disney conservation Fund, Gignoux-Wolfsohn S, Pizzarro V, Dahlgren C: Restoring Disease Resistant Coral Reefs in The Bahamas \$50,000
FELLOWSHIPS (\$2	206,230 plus tuition and travel awards)
•	Women in Ocean Sciences Scholar, Central Caribbean Marine Institute \$40,000
Aug. 2019-2020	Smithsonian Institutional Postdoctoral Fellowship \$54,000
Aug 2018-2019	The George Burch Fellowship in Theoretical Medicine and Affiliated Theoretic Science (Smithsonian Institution) <i>\$64,000</i>
Ian -May 2016	Dissertation Completion Fellowship (Northeastern University) \$10,930

Jan.-May 2016 Dissertation Completion Fellowship (Northeastern University) \$10,930 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-investigati

ng-a-devastating-coral-disease

Apr. 2013 SeptDec. 2009 June-Aug. 2009	Honorable Mention, NSF Graduate Research Fellowship Program Mellon Foundation Fellowship (Wesleyan University) \$3,000 Howard Hughes Foundation Fellowship (Wesleyan University) \$3,000
TEACHING EXPE	RIENCE
April 2021	Guest lecture, Parasitology, St. Mary's College of Maryland
Oct. 2017	Guest lecture, Wildlife Management, Rutgers University
Feb. 2018 FebMar. 2017	Guest lectures, Molecular Ecology, Rutgers University
SeptDec. 2015 &	Instructor, Genetics Lab, Northeastern University.
SeptDec. 2014 &	Duties: Created and presented lectures and examinations, led lab activities.
SeptDec. 2013 &	
SeptDec. 2012 JanMar. 2015 &	Teaching Assistant, Biology of Corals
JanMar. 2013 &	Three Seas Program, Bocas Del Toro, Panama
JanMar. 2012	Duties: Created and presented some lectures, led lab activities.
JanApr. 2014	Instructor, Bioinformatics Seminar (online), Northeastern University.
	<i>Duties:</i> Created syllabus, created and presented discussion modules and examinations.
SeptDec. 2011	Instructor, Principles of Biology I, Northeastern University.
200. 200. 2011	Duties: Created and presented lectures and examinations, led lab activities.
MENTORING EXP	PERIENCE
June-Aug. 2021	PERIENCE Monserrat Garcia Ruiz. UCSB Smithsonian scholar and Smithsonian
	Monserrat Garcia Ruiz. UCSB Smithsonian scholar and Smithsonian Women's Committee Scholar. 2022: advised on an independent project
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June-Aug. 2021 June-Aug. 2021 June-Aug. 2021 June-Aug. 2022 FebJuly 2022 June-Aug. 2021 June-Nov. 2022 Sept. 2018-2021 June-Aug. 2019 &	Monserrat Garcia Ruiz. UCSB Smithsonian scholar and Smithsonian Women's Committee Scholar. 2022: advised on an independent project examining coral-associated microbes. 2021: remotely advised independent project on relationship between oyster growth and microbiomes using R. Diana Portugal Barron. UCSB Smithsonian scholar. 2022: advised on an independent project examining coral genetic signatures associated with resistance. 2021: remotely advised independent project on effect of parasitism on oyster microbiomes using R. Thijs Stegmann. Masters student at Wageningen University, The Netherlands. Supervised his externship at SERC developing a pipeline for analyzing coral microbiome data. Monserrat Garcia Ruiz. UCSB Smithsonian scholar and Smithsonian Women's Committee Scholar. 2022: advised on an independent project examining coral-associated microbes. 2021: remotely advised independent project on relationship between oyster growth and microbiomes using R. Petra Byl University of Hawaii Manoa, PhD. student. remote mentoring through Society of Women in Marine Science. Matilda Newcomb SERC intern. Advised independent project looking at

publication.

May-Sept. 2016	<i>Clinton Arriola</i> Supervised Clinton as a SERC intern during the summer field season.
Sept. 2011-Sept. 2016	Felicia Aronson Undergraduate, Northeastern University.
• •	<i>Kara Wiggin</i> Undergraduate, Northeastern University. Advised independent senior thesis on transmission of white band disease.
JanDec. 2014	<i>Jennifer Davidson</i> Masters student in Northeastern University's Three Seas Program. Advised independent masters project on microbes associated with lobster shell disease.
ACADEMIC SERV	ICE
Journal review	Microbiome, Environmental Microbiology, ISME journal, Global Change Biology, Scientific Reports, Ecosphere, Frontiers in Microbiology, Microbiology Open, Journal of Invertebrate Pathology, Frontiers in Marine Science, Journal of Natural History, PeerJ, Diseases of Aquatic Organisms
Grant review	NSF Ocean Sciences Postdoctoral Research Fellowship, Seagrant/Ocean Acidification Program Shellfish Aquaculture (Panel), NOAA Ocean Acidification Program, NOAA Small Business Innovation Research Program, Florida DEP SCTLD, Rhode Island Seagrant, North Pacific Research Board, University of Guam Seagrant
October 2021-Presen	t External PhD Committee Member, Robert Kwait, Rutgers University
	Department of Ecology, Evolution, and Natural Resources
October 2021-2022	Member, Local Organizing Committee, 11th International Marine
May 2021-2022	Bioinvasions Conference Member, National Coral Reef Task Force Coral Disease Working Group, Pacific preparedness and transmission teams
January 2021-Presen	t Member, Florida DEP/NOAA Stony Coral Tissue Loss Disease Advisory
,	Committee, pathogen ID/microbiome subteam
Sept. 2020-Present	Guest Associate Editor in coral Reef Research, Stony Coral Tissue Loss Disease in the Caribbean. Frontiers in Marine Science
Sept. 2020-2022	Member, Invasions Lab Diversity Equity and Inclusion Committee
July 2019	Member, ASP Student Awards Committee
November 2017	<i>Co-chair:</i> Factors affecting host-pathogen dynamics in foundation species across marine ecosystems. Coastal and Estuarine Research Federation Biennial, Providence RI.
Aug. 2016	Experiment.com grants officer, coral reef challenge grant
PRESENTATIONS	
June 2022	Capitol Hill Ocean Week. Wild waters. Invited Panel
	https://www.youtube.com/watch?v=0LgW85D2KWk
Feb. 2022	Disease risks and outcomes: Understanding mechanisms of variation from individuals to ecosystems. University of Massachusetts Lowell. Invited
September 2021	Seminar Disease in a changing world: ecological and evolutionary dynamics. University of North Carolina Wilmington Biology and Marine Biology. Invited Seminar

June 2021	Using 'Omics To Identify Obligate, Beneficial, and Transient Microbes in
	Marine Foundation Species. NOAA 'Omics Science Series. Invited Talk
<i>May 2021</i>	Genomic Signatures of Selection in Bats Infected with White Nose
•	Syndrome. Temporal Genomics Roundtable. Invited Talk
February 2021	Disease in a Changing Ocean: Interactions Between the Environment,
•	Pathogens, and Commensals Drive Disease Patterns. North Carolina State
	University College of Marine Sciences and Technology. Invited Seminar
Nov. 2019	Salinity Alters the Effects of Host Community Diversity on Oyster
	Microbial Communities. Coastal and Estuarine Research Federation
	Biennial, Mobile AL. Talk
October 2019	Diversity and Disease: Eco-Evolutionary Feedback. Virginia Institute of
	Marine Science Animal Health. Invited Seminar
July 2019	Biodiversity in a Changing Ocean: Salinity Alters the Effects of Host
	Diversity and Density on Oyster Parasite Prevalence. American Society of
	Parasitologists Annual Meeting, Rochester MN. Talk
Nov. 2017	Interactions Between Foreign and Resident Bacteria Lead to Disease Signs
	in a Reef-Building Coral. Coastal and Estuarine Research Federation
	Biennial, Providence RI. Talk.
Aug. 2017	Are Bat Populations Infected White-Nose Syndrome Undergoing Rapid
	Natural Selection? Ecological Society of America, Portland OR. Talk
May 2017	Are Bat Populations Infected with White-Nose Syndrome Undergoing
	Rapid Natural Selection? White-Nose Syndrome Workshop, Nashville, TN.
	Invited Talk
July 2015	Understanding the Time-Course of White Band Disease Infection in the
	Endangered Staghorn Coral Using 16S Sequencing. Applied and
	Environmental Microbiology GRC, Mount Holyoke, MA. Poster

OUTREACH

Sept. 2020-May 2021	Host for RCN Evolving Seas virtual lab meeting training program
April 2020-Present	Skype-a-scientist: presentations to classrooms over virtual platforms about
	marine ecology, disease, and parasites
Feb. 2020	NMNH after hours. Outbreak: Disease detectives
	Discussed coral disease with the public through hands-on displays at an
	after-hours event related to the Outbreak exhibit.
Nov. 2016-2018	Rutgers representative, NSF INCLUDES
Sept. 2016-2018	Member, Rutgers wildlife extension team
Oct. 2015 &	Northeastern University Marine Science Center open house
Oct. 2013 &	
Oct. 2012	

CERTIFICATIONS, MEMBERSHIPS, AND SKILLS

French fluency, basic Spanish

Proficient in Linux, R, SQL, Python, Big Data, AWS

AAUS certified scientific diver

Society of Women in Marine Science, Coastal and Estuarine Research

Federation