Sarah Gignoux-Wolfsohn.	Curriculum	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

2021 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. Diversity. 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

GRANTS (*\$722,793* to SGW)

Sept. 2022-Aug. 2026 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	Paul Angell Family Foundation, Gignoux-Wolfsohn S : Identifying			
Oct 2021-Oct 2023	biomarkers of resistance to Stony Coral Tissue Loss Disease \$75,000 National Institutes of Health, Lohan K, Gignoux-Wolfsohn S, Burge C, Dikow R: Employing biofilters to detect human pathogens in Mid-Atlantic US waters \$105,252			
Feb. 2017-2018	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			
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>			
JanMay 2016	Dissertation Completion Fellowship (Northeastern University) \$10,930			
_	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			
Apr. 2013	Honorable Mention, NSF Graduate Research Fellowship Program			
SeptDec. 2009	Mellon Foundation Fellowship (Wesleyan University) \$3,000			
June-Aug. 2009	Howard Hughes Foundation Fellowship (Wesleyan University) \$3,000			
TEACHING EXPERIENCE				
April 2021	Guest lecture, Parasitology, St. Mary's College of Maryland			
Oct. 2017	Guest lecture, Wildlife Management, Rutgers University			
Feb. 2018	Guest lectures, Molecular Ecology, Rutgers University			
FebMar. 2017 SeptDec. 2015 &	Instructor, Genetics Lab, Northeastern University.			
SeptDec. 2014 &	Duties: Created and presented lectures and examinations, led lab activities.			
SeptDec. 2013 &	2 wies. Created and presented rectards and creating and, red tab derivities.			
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.			
Sept. Dec. 2011	Duties: Created and presented lectures and examinations, led lab activities.			

ACADEMIC SERVICE

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	at 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
	Bioinvasions Conference
May 2021-2022	Member, National Coral Reef Task Force Coral Disease Working Group,
Iamuam, 2021 Duagar	Pacific preparedness and transmission teams at Member, Florida DEP/NOAA Stony Coral Tissue Loss Disease Advisory
January 2021-Fresen	Committee, pathogen ID/microbiome subteam
Sept. 2020-Present	Guest Associate Editor in coral Reef Research, Stony Coral Tissue Loss
sept. 2020 Tresent	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	Co-chair: 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
G 1 0001	Seminar
September 2021	Disease in a changing world: ecological and evolutionary dynamics.
	University of North Carolina Wilmington Biology and Marine Biology.
June 2021	Invited Seminar Using 'Omigs To Identify Obligate Panaficial and Transient Migrahas in
June 2021	Using 'Omics To Identify Obligate, Beneficial, and Transient Microbes in Marine Foundation Species. NOAA 'Omics Science Series. Invited Talk
May 2021	Genomic Signatures of Selection in Bats Infected with White Nose
111ay 2021	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	
	Host for RCN Evolving Seas virtual lab meeting training program

OCTIVETICIT	
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