MATTHEW P. STEFANAK

Phone: (410) 404-5713 mstefanak@umces.edu	146 Williams St. Solomons, MD 20688
EDUCATION	
 University of Maryland, College Park, MD <i>Ph.D.</i> (in-progress), Marine, Estuarine, & Environmental Scien Focus: Ecological Systems Advisor: Dr. Ryan Woodland, Chesapeake Biological Laborate 	
 Woods Hole Oceanographic Institute, Woods Hole, MA (<i>coursewor</i>) Fall 2018 Semester at Woods Hole (SAW) Program Focus: Biological Oceanography 	<i>k)</i> 2018
 Middlebury College, Middlebury, VT <i>B.A.</i>, Biology & Environmental Studies (magna cum laude) 	2016-2019
Research Experience	
Chesapeake Biological Laboratory, Solomons, MD Graduate Research Assistant, Woodland Lab	Aug. 2021-current
Hawai'i Institute of Marine Biology, Kāne'ohe, HI Technician, Coral Reef Ecology Lab	Dec. 2019-Jul. 2021
Woods Hole Oceanographic Institute, Woods Hole, MA Student Researcher, Larval Fish Ecology Lab	Sep. 2018-Jul. 2019
Middlebury College, Middlebury, VT Student Researcher, Eggleston Lab	FebMay 2018
Dartmouth College, Hanover, NH Research Intern, Lutz Lab	JunAug. 2017
Towson University , Towson, MD <i>Research Intern</i> , Salice Lab	May-Aug. 2016

PEER-REVIEWED PUBLICATIONS

Stefanak MP, Santos NR, Reyes-Delgado A, O'Brien M, Woodland RJ, (2022). Seascape connectivity of juvenile fishes between Mid-Atlantic coastal lagoons and the inner continental shelf (working title). *Estuarine, Coastal and Shelf Science*, in-preparation.

- Han JJ, **Stefanak MP**, Hunter CS, Coles SL, and Rodgers KS. (2022). Evidence of thermal tolerance augmentation by three Hawaiian reef corals in Kāne'ohe Bay, O'ahu by comparison with historical data (working title). *Coral Reefs*, in-preparation.
- Han JJ, **Stefanak MP**, and Rodgers KS. (2022). Low-level nutrient enrichment during thermal stress delays bleaching and ameliorates calcification in three Hawaiian reef coral species. *PeerJ* 10(1): e13707. doi: 10.7717/peerj.13707.
- Bates AE, et al. (**Stefanak MP** one of 345 co-authors). (2021). Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. *Biological Conservation* 263: 109175. doi: 10.1016/j.biocon.2021.109175.
- Rodgers KS, **Stefanak MP**, Tsang AO, Han JJ, Graham A, and Stender YO. (2021). Impact to the coral reef community at Hā'ena and Pila'a, Kaua'i following a record 2018 freshwater flood event. *Diversity* 13(2), 66. doi: 10.3390/d13020066.
- Alkhouri NB, Mutka MC, **Stefanak MP**, and Bearer CF. (2021). The impact of COVID-19 on manuscript submissions to Pediatric Research. *Pediatric Research* 90: 6-7. doi: 10.1038/s41390-020-01220-9.
- Stefanak MP, Al-Mudares F, El-Metwally D, Jones J, Kane M and Bearer CF. (2020). High concentrations of urinary ethanol metabolites in Neonatal Intensive Care Unit infants. *Pediatric Research* 88: 865-870. doi: 10.1038/s41390-020-1020-5.
- El-Metwally D, Chain K, Mallya K, Stefanak MP, Alwis U, Blount B, LaKind J and Bearer CF. (2018). Infant exposure to volatile organic compounds in the Neonatal Intensive Care Unit. *Pediatric Research* 83(6): 1158-1164. doi: 10.1038/pr.2018.52.

TECHNICAL REPORTS

- Rodgers KS, Graham A, Han JH, Stender Y, Tsang A, and **Stefanak MP**. (2022). 2016-2020 five-year recovery assessment and long-term monitoring of reef coral communities at Pila'a Reef, Kaua'i. Prepared for State of Hawai'i, Department of Land and Natural Resources, Division of Aquatic Resources. pp 149.
- Severino S, Rodgers KS, Graham A, Tsang A, Stender Y, and Stefanak MP. (2021).
 Hanauma Bay biological carrying capacity survey 2020/21 annual report. Prepared for City and County of Honolulu: Parks and Recreation, Hawai'i Board of Land and Natural Resources. pp 340.
 https://www.honolulu.gov/rep/site/dpr/hanaumabay_docs/Hanauma_Bay_Carrying_Capacity_Study_Year_3_2020 to 2021-compressed.pdf.
- Rodgers KS, Graham A, Han JH, Stefanak MP, Stender Y, Tsang A, Weible R, and Stamoulis K. (2021). 2016-2020 five year efficacy study of the management regulations within the Community Based Subsistence Fishing area of Hā'ena, Kaua'i. Prepared for State of Hawai'i, Department of Land and Natural Resources, Division of Aquatic Resources. pp 81.

- Severino S, Rodgers KS, **Stefanak MP**, and Stender Y. (2020). Hanauma bay biological carrying capacity survey 2019-20 2nd annual report. Prepared for City and County of Honolulu Parks and Recreation, Hawai'i Board of Land and Natural Resources. pp 59. <u>http://www.honolulu.gov/rep/site/dpr/hanaumabay_docs/Hanauma_Bay_Carrying_Capac_ity_Report_August_2020.pdf</u>.
- Rodgers KS, Graham A, Han JH, **Stefanak MP**, Stender YO, and Tsang AO. (2020). 2019 long-term monitoring and assessment of the Hā'ena, Kaua'i Community Based Subsistence Fishing Area year 4 CBSFA efficacy study. Prepared for State of Hawai'i, Department of Land and Natural Resources, Division of Aquatic Resources. pp 63. <u>https://dlnr.hawaii.gov/dar/files/2020/07/2019_Final_Haena_report.pdf</u>.

POSTERS & PRESENTATIONS

- Stefanak, M. The effects of biophysical and hydrodynamic factors on larval reef fish settlement on the southern coast of St. John, USVI. Middlebury College Ecology & Evolution Subgroup. Middlebury, VT. February, 2019.
- Stefanak, M. A pilot analysis of C. sphaerospermum and T. versicolor in terrestrial degradation of pure polystyrene (#6 plastic). Middlebury College Ecology & Evolution Subgroup. Middlebury, VT. February, 2018.
- Stefanak, M, El-Metwally D, Al-Mudares F, Jones J, Kane M, and Bearer C. Ethanol metabolites of infants exposed to postnatal ethanol-containing medications in the neonatal intensive care unit (Abstract). Research Society on Alcoholism Poster Presentation. Denver, CO. June, 2017.
- Stefanak, M. Dietary preferences of I. pustularia and M. canadaria mediate size in absence of predation. Wesleyan University Public Poster Session. Middletown, CT. May, 2016.

FUNDING & FELLOWSHIPS

Debbie Morrin-Nordlund Memorial Travel Award Conference Travel Award (\$1,615.85)	2023
Washington Biologists' Field Club Research Award <i>The Chesapeake Bay plume as a trophic subsidizer of coastal</i> <i>juvenile fish production</i> (\$3,300.00)	2023-2024
MD Sea Grant Competitive Graduate Research Fellowship <i>Elucidating dietary source and structure of three important juvenile</i> <i>fishery species across the Chesapeake Bay mouth plume using bulk</i> <i>stable isotope analyses</i> (approx. \$45,000.00)	2022-2023
University of Maryland Flagship Fellowship Graduate Enhancement Funding (\$60,000.00)	2021-2026

Curriculum Vitae	8/15/23
Middlebury College Department of Biology Small-scale variation in larval reef fish settlement in St. John, USVI (\$390.01)	2019
Woods Hole Oceanographic Institute Semester at Woods (SAW) Academic Scholarship, (\$7,500.00)	2018
Middlebury College Department of Biology Use of C. sphaerospermum & T. versicolor in degradation of polystyrene (#6 plastic) (\$609.04)	2018
Awards & Certifications	
Middlebury College Graduation Honors Magna Cum Laude	2019
Dean's List Fall 2015, Fall 2016, Spring 2017, Spring 2018, Fall 2018, and Spring 2019	2015-2019
First Aid/CPR/AED Adult & Pediatric, American Red Cross Certified, June 2019-2021	2019
PADI Divemaster EFR & EOA certified, Pro #446107	2019
PROFESSIONAL SOCIETIES	
American Fisheries Society (2021-present) Association for the Sciences of Limnology and Oceanography (2022-present) Coastal & Estuarine Research Federation (2023-present)	
GRADUATE STUDENT ORGANIZATIONS & VOLUNTEERING	
American Fisheries Society: UMCES Chapter 2021-2022: Treasurer 2022-2023: President Chesapeake Biological Laboratory: DEIC Committee 2022-2023: Student Representative 2023-2024: Student Representative Chesapeake Biological Laboratory: New Student Welcome Committee 2022-2023: Student Representative	
OTHER PROFESSIONAL EXPERIENCE	

Dive Oahu, Honolulu, HI Boat Crew & Dive Shop Staff July 2019 - Mar. 2020

Phillips & Paolicelli LLP, New York, NY Medical & Environmental Law Intern

May-Aug. 2016

COMPUTER SKILLS

R

Advanced biometry techniques and data management

ArcGIS

Experience through coursework with raster and vector data, novice cartographic skills

Google Earth Engine

Moderate applied experience using remote sensing imagery

Microsoft Excel

Data management and manipulation, simple parametric statistics

ONLINE MEDIA

Stefanak, M. Failure is an Option: The Rewards and Challenges of Fieldwork. (2023). Blog Post *in* Maryland Sea Grant "Fellowship Experiences". <u>https://www.mdsg.umd.edu/fellowship-experiences/failure-option-rewards-and-challenges-fieldwork</u>

NEWS

2022

https://www.nytimes.com/2022/07/16/science/pandemic-nature-anthropause.html

2020

https://www.staradvertiser.com/2020/04/29/hawaii-news/silver-linings-at-hanauma-bay/

2019

https://www.whoi.edu/multimedia/holed-up/