Curriculum Vitae 5/13/24

MATTHEW P. STEFANAK

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EDUCATION

 University of Maryland, College Park, MD Ph.D. (in-progress), Marine, Estuarine, & Environmental Science Focus: Ecological Systems Advisor: Dr. Ryan Woodland, Chesapeake Biological Laboratory 	2021-current
 Woods Hole Oceanographic Institute, Woods Hole, MA (coursework) Fall 2018 Semester at Woods Hole (SAW) Program Focus: Biological Oceanography 	2018
 Middlebury College, Middlebury, VT B.A., Biology & Environmental Studies (magna cum laude) 	2019
ESEARCH EXPERIENCE	

RE

Chesapeake Biological Laboratory, Solomons, MD Graduate Research Assistant, Woodland Lab	Aug. 2021-current
Hawai'i Institute of Marine Biology, Kāne'ohe, HI <i>Technician</i> , Coral Reef Ecology Lab	Dec. 2019-Jul. 2021
Woods Hole Oceanographic Institute , Woods Hole, MA <i>Student Researcher</i> , Larval Fish Ecology Lab	Sep. 2018-Jul. 2019
Middlebury College, Middlebury, VT Student Researcher, Eggleston Lab	FebMay 2018
Dartmouth College , Hanover, NH <i>Research Intern</i> , Lutz Lab	JunAug. 2017
Towson University , Towson, MD Research Intern, Salice Lab	May-Aug. 2016

PEER-REVIEWED PUBLICATIONS¹

*Santos NR, *Stefanak MP, Reyes-Delgado A, O'Brien M, Woodland RJ. (2024). Seascape connectivity of juvenile fishes between Mid-Atlantic coastal lagoons and the inner continental shelf (working title). Estuarine, Coastal and Shelf Science, in-preparation.

¹ *co-first authorship, † corresponding authorship

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Tsang AO, Graham A, Han JJ, **Stefanak MP**, Stender YO, Rodgers KS. (2024). Evaluating the efficacy of novel Community-Based Subsistence Fishing Area in Hā'ena, Kaua'i (working title). *Ecology & Society*, 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

- Fantauzzi IAM, Woodland RJ, and **Stefanak MP**. (2022). Effects of the Chesapeake Bay plume on benthic biodiversity and biomass in the shallow coastal zone. Prepared for Maryland Sea Grant, NSF/Research Experience for Undergraduates Program. College Park, MD. pp 18.
- 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. Honolulu, HI. 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. Honolulu, HI. pp 340.

 https://www.honolulu.gov/rep/site/dpr/hanaumabay_docs/Hanauma_Bay_Carrying_Capacity_Study_Year_3_2020_to_2021-compressed.pdf.

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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. Honolulu, HI. 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. Honolulu, HI. pp 59.

 http://www.honolulu.gov/rep/site/dpr/hanaumabay_docs/Hanauma_Bay_Carrying_Capacity_Report_August_2020.pdf.
- 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. Honolulu, HI. pp 63. https://dlnr.hawaii.gov/dar/files/2020/07/2019_Final_Haena_report.pdf.

POSTERS & PRESENTATIONS

- **Stefanak MP**, Murphy T, and Woodland RJ. How does the Chesapeake Bay plume affect juvenile fish? *Marine, Estuarine, & Environmental Science Program Colloquium*. Grasonville, MD. March 2024. (Poster).
- **Stefanak MP**, Murphy T, and Woodland RJ. Evaluating the trophic resources supporting benthic and bottom-associated consumers within the Chesapeake Bay plume. *American Fisheries Society: Tidewater Chapter*. Hampton, VA. February 2024. (Poster).
- **Stefanak MP**, Hodgkins C, Li M, Murphy T, Testa J, and Woodland RJ. Influence of the Chesapeake Bay plume on coastal benthic communities. *Coastal and Estuarine Research Federation*. Portland, OR. November 2023. (Poster).
- Santos N, Murphy T, Reyes-Delgado A, **Stefanak MP**, O'Brien MH, Secor DH, and Woodland RJ. Individual fish use connected inner shelf and lagoon ecosystems as networked nurseries. *Coastal and Estuarine Research Federation*. Portland, OR. November 2023. (Poster).
- Santos N, Murphy T, Reyes-Delgado A, **Stefanak MP**, O'Brien MH, Secor DH, and Woodland RJ. Assessing the prevalence and ecological consequences of habitat connectivity between Maryland's coastal lagoons and coastal ocean for juvenile fish. *American Fisheries Society: Tidewater Chapter*. Solomons, MD. March 2023. (Poster).

FUNDING & FELLOWSHIPS

Debbie Morrin-Nordlund Memorial Travel Award

Conference Travel Award (\$1,616)

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Washington Biologists' Field Club Research Award 2023-2024 The Chesapeake Bay plume as a trophic subsidizer of coastal *juvenile fish production* (\$3,300) MD Sea Grant Competitive Graduate Research Fellowship 2022-2023 Elucidating dietary source and structure of three important juvenile fishery species across the Chesapeake Bay mouth plume using bulk stable isotope analyses (approx. \$45,000) **University of Maryland Flagship Fellowship** 2021-2026 Graduate Enhancement Funding (\$60,000) Middlebury College Department of Biology 2019 Small-scale variation in larval reef fish settlement in St. John, *USVI* (\$390) **Woods Hole Oceanographic Institute** 2018 Semester at Woods (SAW) Academic Scholarship (\$7,500) Middlebury College Department of Biology 2018 Use of C. sphaerospermum & T. versicolor in degradation of polystyrene (#6 plastic) (\$609) NON-FUNDING AWARDS & CERTIFICATIONS **Middlebury College Graduation Honors** 2019 Magna Cum Laude Dean's List 2015-2019 Fall 2015, Fall 2016, Spring 2017, Spring 2018, Fall 2018, and Spring 2019 **PADI Divemaster** 2019 EFR & EOA certified, Pro #446107 **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

University of Maryland: American Fisheries Society Student Subunit

2021-2022: Treasurer 2022-2023: President 2023-2024: Treasurer

Chesapeake Biological Laboratory: Diversity, Equity, and Inclusion Committee

2022-2023: Student Representative

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2023-2024: Student Representative

Chesapeake Biological Laboratory: New Student Welcome Committee

2022-2023: Student Representative 2023-2024: Student Representative

OTHER PROFESSIONAL EXPERIENCE

Dive Oahu, Honolulu, HI

July 2019 – Mar. 2020

Boat Crew & Dive Shop Staff

Phillips & Paolicelli LLP, New York, NY

May-Aug. 2016

Medical & Environmental Law Intern

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".

 $\frac{https://www.mdsg.umd.edu/fellowship-experiences/failure-option-rewards-and-challenges-fieldwork}{}$

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/