

The 7th Workshop on
Trait-based Approaches to Ocean Life
 Aug. 4 - Aug. 7, 2025
 Asilomar Conference Grounds, Pacific Grove, California, USA

Monday 8/4

3-4	Snacks available	Merrill Hall
3-4	Poster set-up	Merrill Hall
4-4:30	Welcome and intro	
4:30-5	Icebreaker	
5-6	Posters: Group A	
6-7pm	Dinner	Crocker Dining Hall
7-8	Bonfire social	BBQ area (The Circle)

Tuesday 8/5

7:30-9am	Breakfast	Crocker Dining Hall
9-9:10	Regroup/Announcements	Merrill Hall
	Biogeography and biogeochemistry I	Merrill Hall
9:10-9:50	Keynote: Exploring the use of traits in ocean biogeochemical modeling – from a “master trait” to specialized traits	Jessica Luo NOAA GFDL
9:50-10:10	Do higher trophic levels impact secondary production globally?	Rémy Denéchère UC San Diego
10:10-10:30	Does mixotroph trait evolution drive a positive climate feedback loop?	Holly Moeller UC Santa Barbara
10:30-11am	Coffee break	Merrill Hall
	Biogeography	Merrill Hall
11-11:20	Modeling fish swimming behavioral traits	Colleen Petrik UC San Diego
11:20-11:40	Deriving the Arctic lipidscape by extracting traits from in situ images of copepods and the spatiotemporal variation in copepod ecosystem functions	Patrick Pata Universite Laval
11:40-12	Data-driven models to inform on dinoflagellates trophic traits biogeography across surface open-ocean	Gaspard Rihm Muséum National d'Histoire Naturelle
12-1pm	Lunch	Crocker Dining Hall
	Biogeography and biogeochemistry II	Merrill Hall
1:00-1:40	Keynote: Controlling Respiration Quotient: A Global Perspective	Allison Moreno UC Santa Cruz
1:40-2:00	Trait-based Insights Into Copepod Migration: The Role of Size and Transparency in DVM Behavior	Rocio B. Rodriguez-Perez Arizona State U.
2:00-2:20	Diagnosing the Impact of Migrating Zooplankton on the Inventory and Sequestration of Carbon in the Ocean Interior.	Daniel Clements Bigelow Laboratory
2:20-3pm	Coffee break	Merrill Hall
3-4	Discussions & Chalk Talks: Session 1	Various breakout locations
	Biodiversity and community structure	Merrill Hall
4-4:20	A trait-based, mechanistic explanation for the increase in microbial diversity with depth in the ocean	Liang Xu Carnegie Science
4:20-4:40	Combining optimized trait-based modeling with stable isotope probing and genomics to understand microbial food web structure and function	Joe Vallino Marine Biological Lab
4:40-5	The mystery of gelatinous zooplankton mortality: a hidden trade-off	Julie Lemonie Sorbonne Universite
5-6	Posters: Group B	
6-7pm	Dinner	Crocker Dining Hall
7-9	Bonfire social, with s'mores	BBQ area (The Circle)

Wednesday 8/6

7:30-9am	Breakfast		Crocker Dining Hall
9-9:10	Regroup/Announcements		Merrill Hall
	Symbiosis and beyond competitive interactions		Merrill Hall
9:10-9:50	Keynote: The extraordinary biogeochemical capabilities of fungi	Jennifer Bhatnagar Boston University	
9:50-10:10	Insights into Marine Microbial Interactions through High-Resolution Monitoring and Modeling	Ewa Merz Scripps, UC San Diego	
10:10-10:30	Microbial Interactions Matter for Biogeochemistry: Can Chemical Heterogeneity Explain Nitrite Accumulation in Anoxic Zones?	Daniel McCoy Carnegie Science	
10:30-11am	Coffee break		Merrill Hall
11-12	Discussions & Chalk Talks: Session 2		Various breakout locations
12pm	Lunch (bagged lunches delivered to Merrill Hall)		
12-4:30			

Outings: Aquarium, whale watching, hikes, etc.

4:30-5	Coffee and snacks		Merrill Hall
	Adaptation and evolution		Merrill Hall
5-5:20	Ecological constraints on optimal trait plasticity	Colin Kremer U. of Connecticut	
5:20-5:40	EcoTRACE: Exploring the evolutionary trajectories of phytoplankton communities in a model informed by experimental evolution	Chase James U. of Southern California	
5:40-6	Intra- and interspecific trait variation among harmful algal bloom taxa	Elena Litchman Michigan State University	
6-7pm	Dinner		Crocker Dining Hall
7-8	Bonfire social		BBQ area (The Circle)

Thursday 8/7

7:30-9am	Breakfast		Crocker Dining Hall
9-9:10	Regroup/Announcements		Merrill Hall
	Interspecific variability and review		Merrill Hall
9:10-9:30	Gephyrocapsa huxleyi lineages leverage distinct genes for temperature response	Arianna Krinos Brown University	
9:30-9:50	A Theoretical Framework for Trait-Based Eco-Evolutionary Dynamics: Population Structure, Intraspecific Variation, and Community Assembly	Christopher Klausmeier Michigan State University	
9:50-10:10	Trait-based approaches to global change ecology: Moving from description to prediction	Miram Gleiber University of Alberta	
10:10-10:40	Coffee break		Merrill Hall
10:40-11:40	What is the future of trait-based approaches? Group discussion and paper plan	Facilitator: Elena Litchman Michigan State University	
11:40-12	Feedback and closing		
12-1pm	Lunch		Crocker Dining Hall