

***Special* Oceanography Seminar**

“The roles of size, abundance, composition, and diversity of marine particles in driving carbon dynamics: from the single-cell to satellite perspectives”

Thursday, May 2, 2024, 11:00a.m., MSB 100

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Particles in marine environments play pivotal roles in carbon movement and organic matter transformations. Understanding how their size distribution, composition, structure, and optical properties change over time and space is crucial for elucidating the complex facets of carbon dynamics. In this talk, I will discuss how my research addresses these parameters using a multi-scale approach, ranging from single-cell to bulk volume tools, across various temporal and spatial scales. Leveraging optical techniques, I will discuss insights from previous and ongoing research at Station ALOHA and the North Pacific region aimed at understanding biological particulate matter transformations and ecological interactions associated with suspended and sinking particles. Ultimately, my goal is to bridge single-cell processes with satellite observations to enhance our understanding of microbial contributions to carbon production and export in a changing climate

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***The speaker is a candidate for a faculty position in the Department of Oceanography.**