

Scripps Institution of Oceanography
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Aidan Blaser

Research Interests

Surface Gravity Waves, Fluid Mechanics, Air-Sea Interactions

Education

2021-PRESENT	Ph.D. in physical oceanography , Scripps Institution of Oceanography. Current GPA (4.0/4.0)
2017-2021	B.A. in physics (concentration in earth sciences) , Cornell University Honors: <i>magna cum laude</i> (4.04/4.3) Phi Beta Kappa Honors Society

Research Experience

2021-PRESENT	Graduate Student Researcher - Scripps Institution of Oceanography Currently working alongside Luc Lenain and Nick Pizzo (SIO) to investigate mass transport of steep surface gravity waves, as well as wave-wave interactions and directional effects.
2020-2021	Undergraduate Student Researcher - Cornell University Worked with Peter Diamessis on turbulent wakes produced by a moving object in a stratified flow as well as mixing caused by breaking internal solitary waves.
2019	MPL Intern - Scripps Institution of Oceanography For the summer of 2019, I worked alongside Luc Lenain in the Air-Sea lab to understand the statistics of whitecap wave breaking events in the open ocean in order to better understand surface mixing.
2018	Research Assistant - Princeton University Archived and digitized the notes of the late Tony Dahlen, Professor of Geophysics at Princeton. The culmination of this work was featured in an article in the Smilodon, Princeton's geosciences newsletter.

Teaching Experience and Involvement

2022-PRESENT	COAP Tutor - SIO COAP Department Tutor for MS 1st-year students at Scripps. Assists with classes ranging from fluid mechanics, physical oceanography, and math.
2022-PRESENT	CASPO Seminar Committee Member - SIO Member of a graduate student committee who chooses weekly speakers from SIO and beyond. In addition to seminars, weekly lunches and gatherings are organized for speakers and students alike.
2018-2019	Physics Undergraduate Teaching Assistant – Cornell University Assisted in laboratory demonstrations and instruction for introductory level physics courses at Cornell. Participated in lab planning meetings to improve physics education research.

Presentations

Aidan Blaser, Raphael Benamran, A. Bia Villas-Bôas, Luc Lenain, and Nick Pizzo. Why water waves cause drift. Scripps Student Symposium (S^3), San Diego, CA, 2023.

Aidan Blaser, Nick Pizzo, and Luc Lenain. The Lagrangian mean flow of monochromatic and broadband wave fields. Waves in Sea Environment (WISE) meeting, Princeton, NJ, 2023.

Aidan Blaser. Deep Water Breaking Wave Statistics. Marine Physical Laboratory Internship, San Diego, 2019.