## Allison J. Ho

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Education	<u>alliho.github.io</u>
2018 - 2024	Scripps Institution of Oceanography, UCSD
	Oceanography, Ph.D.
	Dissertation title: "Wave-current-tide interactions in coastal environments"
2020	Scripps Institution of Oceanography, UCSD
	Oceanography, M.S.
2018	Pomona College
	Physics and Astrophysics, B.A.
<b>Professional 1</b>	Experience
2024 - present	Postdoctoral Fellow
	NASA Jet Propulsion Laboratory, La Cañada Flintridge, CA 91011
2018 - 2024	Graduate Student Researcher
	Scripps Institution of Oceanography UCSD, San Diego, CA 9203,
<b>Publications</b>	
2024	A Ho, et al., Characterizing Tidal Modulations in Nearshore Wave Records, (in prep)
2023	K Mudd, A Ho, A Amador, J Lodise, J Behrens, S Merrifield, Wind Velocity Estimates from
	Wave Observing Platforms, Coastal Engineering Journal,
	https://doi.org/10.1080/21664250.2024.2321660
2023	J Yan, T Cook, A Ho, M Otero, PA Rogowski, E Terrill, S Merrifield, PyPlume: A Toolkit
	for Rapid Ocean Surface Transport Assessments, Environmental Modeling & Software.
	https://doi.org/10.1016/j.envsoft.2023.105783
2023	A Ho, S Merrifield, N Pizzo, Wave-Tide Interaction for a Strongly Modulated Wave Field,
	Journal of Physical Oceanography. <a href="https://doi.org/10.1175/JPO-D-22-0166.1">https://doi.org/10.1175/JPO-D-22-0166.1</a>
2021	P Rogowski, S Merrifield, C Collins, T Hesser, A Ho, R Bucciarelli, J Behrens, E Terrill,
	Performance Assessments of Hurricane Wave Hindcasts, Journal of Marine Science and
	Engineering. <a href="https://doi.org/10.3390/jmse9070690">https://doi.org/10.3390/jmse9070690</a>
Honors and A	wards
2024	ORAU NASA Postdoctoral Program Fellowship
2021-22	UCSD Changemaker Fellow Anti-Racist Pedagogy Learning Community – San Diego, CA
2021	UCSD Inclusive Excellence Award (awarded to student group Women and Minorities in
	Science, role: leadership board) – San Diego, CA
2020	Cody Fellowship – San Diego, CA
2018	Franklin P. Brackett Award for Excellence in Astronomy - Claremont, CA
2017	Alfred S. Kwok Memorial Award – Claremont, CA
2017	Marine Physical Lab NSF REU Grant – San Diego, CA
2016	Oregon State University NSF REU Grant - Corvallis, OR
Posters and P	Presentations
2023	A Ho, S Merrifield, N Pizzo, E Terrill, MA Merrifield, BO Reilly, M Siegelman, A Amador.
<del></del>	Tidal modulations of surface waves in nearshore environments. Talk at 3rd International
	Workshop on Waves, Storm Surges, and Coastal Hazards, South Bend, IN, USA.
2023	A Ho, Tidal modulations of surface waves in nearshore environments. Coastal Ocean Fluid
_ 3_0	Dynamics Lab Seminar (WHOI, virtual).
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2023	A Ho, Wave-tide interaction for a strongly modulated wave field. WISE Seminar (virtual).
2023	A Ho, S Merrifield, N Pizzo, Theory and observations of wave-tide interaction for a strongly
	modulated wave field. Talk at 2023 AMS Conference, Boulder, CO, USA.
2022	A Ho, S Merrifield, N Pizzo, Theory and observations of wave-tide interaction for a strongly
	modulated wave field. Talk at 2022 Ocean Sciences Meeting (virtual).
2021	A Ho, Observations of tidally-driven wave current interaction at nearshore wave buoys.
	Presentation for SIO Applied Ocean Science Seminar, San Diego, CA, USA.
2020	A Ho, Air-sea momentum exchange: influence of waves on drag coefficients. Presentation
	for Surface Waves Group Seminar, San Diego, CA, USA.
2020	A Ho, S Merrifield, E Terrill, J Behrens, RE Jensen, and T Hesser, West Coast Model-
	Observation Biases of Remotely-Forced Swell. Poster at 2020 Ocean Sciences Meeting, San
	Diego, CA, USA.
2018	A Ho, S Merrifield, E Terrill, AB Villas Boas, L Lenain, and WK Melville, Observations of
	Wind-Wave Coupling in Coastal California: Equilibrium Range, Drag Coefficients, and
	WaveWatch III Assessment. Presentation at 2019 American Geophysical Union Fall
	Meeting, Washington D.C., USA.

## Field Work and Training

Sep 1-Oct 7, 2021	AR60-02 – NORSE Pilot Research Cruise
	R/V Armstrong – Reykjavik, Iceland
	Role: Scientist – Wave Glider deployment, recovery, and data analysis
Oct 17-28, 2019	SR1915 – ONR SIO Research Cruise
	R/V Sally Ride – Koror, Republic of Palau
	Role: Scientist – planned and assisted deployment of wave gliders and buoys
July 22-26, 2019	NCEP/NOAA Waves Summer School 2019 – WAVEWATCH III Workshop
	University of Maryland College Park, MD, USA

## **Teaching Experiences & Mentorship**

Summer 2023	Advisor to Wyatt Cottriel, MPL REU intern. Project: observations of enhanced wave
	breaking over underwater ridge.
2021-2023	Advisor to Kaley Mudd, UCSD undergraduate. Project (honors thesis): wind estimates
	inferred from wave observing platforms.
September 2022	Instructor for Math and Computing Workshop (Intro to Bash, Intro to Git, Intro to Latex)
2020, 2021	Mentor in SIO Peer Mentorship Program
2017 - 2018	Laboratory teaching assistant for digital/analog electronics lab (upper-level lab course)
2017	Laboratory teaching assistant and grader for non-majors introductory physics class
2015	Academic mentor for introductory physics class (relativity, quantum, thermodynamics)

## **Outreach / Extra-Curricular Activities / Service**

2022 - 2023	Ethics Course Curriculum Committee
2021 - 2023	Blue Dot Education (board member)
July 2022	UCSD COSMOS Program Outreach Lecturer
2021 - 2022	Applied Ocean Science Curriculum Workgroup Committee
2020 - 2022	Women and Minorities in Science at SIO (leadership)
2021 - 2022	Sustainability Committee
2019 - 2021	Educational Policy Committee
2019 - 2021	Scripps Graduate Student Council (Curricular Group Representative)
2020	Skype a Scientist Guest Scientist/Lecturer
2019 - 2020	Applied Ocean Science Seminar Organizing Committee
Sept. 2019	Scripps Student Symposium volunteer and mentor to high school students