

Allison J. Ho

she/her/hers

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8855 Biological Grade, San Diego, CA 92037

Education

- 2018 - present ***Scripps Institution of Oceanography, UCSD***
Ph.D. Candidate in Applied Ocean Science and Engineering
Advisors: Sophia Merrifield & Eric Terrill
- 2020 ***Scripps Institution of Oceanography, UCSD***
Oceanography, M.S.
- 2018 ***Pomona College***
Physics and Astrophysics, B.A.

Publications

- 2023 **A Ho**, S Merrifield, N Pizzo, E Terrill, MA Merrifield, BO Reilly, M Siegelman, A Amador, *Climatology of Periodic Ocean Impacts on Surface Waves*, (in prep)
- 2023 K Mudd, **A Ho**, A Amador, J Lodise, J Behrens, S Merrifield, *Wind Velocity Estimates from Wave Observing Platforms*, (in prep)
- 2023 J Yan, T Cook, **A Ho**, M Otero, PA Rogowski, E Terrill, S Merrifield, *PyPlume: A Toolkit for Rapid Ocean Surface Transport Assessments*, (in review)
- 2023 **A Ho**, S Merrifield, N Pizzo, *Wave-Tide Interaction for a Strongly Modulated Wave Field*, Journal of Physical Oceanography. <https://doi.org/10.1175/JPO-D-22-0166.1>
- 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. <https://doi.org/10.3390/jmse9070690>

Honors and Awards

- 2021-22 UCSD Changemaker Fellow Anti-Racist Pedagogy Learning Community
- 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 Presentations

- 2023 **A Ho**, S Merrifield, N Pizzo, E Terrill, MA Merrifield, BO Reilly, M Siegelman, A Amador. *Tidal modulations of surface waves in nearshore environments*. Poster at WISE Conference 2023, Princeton, NJ, USA.
- 2023 **A Ho**, *Tidal modulations of surface waves in nearshore environments*. Coastal Ocean Fluid Dynamics Lab Seminar (WHOI, virtual).
- 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, <i>Theory and observations of wave-tide interaction for a strongly modulated wave field</i> . Talk at 2022 CalGFD Conference, Pasadena, CA, USA.
2022	A Ho , S Merrifield, N Pizzo, <i>Theory and observations of wave-tide interaction for a strongly modulated wave field</i> . Talk at 2022 Ocean Sciences Meeting (virtual).
2021	A Ho , <i>Observations of tidally-driven wave current interaction at nearshore wave buoys</i> . Presentation for SIO Applied Ocean Science Seminar, San Diego, CA, USA.
2020	A Ho , <i>Air-sea momentum exchange: influence of waves on drag coefficients</i> . Presentation for Surface Waves Group Seminar, San Diego, CA, USA.
2020	A Ho , S Merrifield, E Terrill, J Behrens, RE Jensen, and T Hesser, <i>West Coast Model-Observation Biases of Remotely-Forced Swell</i> . 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, <i>Observations of Wind-Wave Coupling in Coastal California: Equilibrium Range, Drag Coefficients, and WaveWatch III Assessment</i> . Presentation at 2019 American Geophysical Union Fall Meeting, Washington D.C., USA.

Research Cruises

Sep 1-Oct 7, 2021	<i>AR60-02 – NORSE Pilot Research Cruise</i> R/V Armstrong – Reykjavik, Iceland Role: Scientist – Wave Glider deployment, recovery, and data analysis
Oct 17-28, 2019	<i>SR1915 – ONR SIO Research Cruise</i> R/V Sally Ride – Koror, Republic of Palau Role: Scientist – planned and assisted deployment of wave gliders and buoys

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 – present	Ethics Course Curriculum Committee
2021 – present	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
2016 – 2018	Fremont Academy of Engineering & Design Community outreach work