

Leonel Romero

Assistant Professor

[Air-Sea Interaction Laboratory](#)

Department of Marine Sciences, University of Connecticut

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[Google Scholar](#)

Education

- 2008 **Ph.D** Oceanography, Scripps Institution of Oceanography,
University of California, San Diego
Thesis: Airborne Observations and Numerical Modeling of Fetch Limited Waves in the Gulf of Tehuantepec
Advisor: W. Kendall Melville
- 2002 **B.S.** Physics, University of California, San Diego

Employment

- 09/2020 – present **Assistant Professor**, Department of Marine Sciences,
University of Connecticut
- 07/2020 – 9/2020 **Associate Researcher**, Earth Research Institute,
University of California, Santa Barbara
- 10/2015 – 6/2020 **Assistant Researcher**, Earth Research Institute,
University of California, Santa Barbara
- 6/2011 – 10/2015 **Assistant Project Scientist**, Earth Research Institute,
University of California, Santa Barbara
- 2008 – 2011 **Postdoctoral Scholar**, Scripps Institution of Oceanography,
University of California, San Diego
- 2003 – 2008 **Graduate Student Researcher**, Scripps Institution of Oceanography,
University of California, San Diego
- 2001–2002 **Undergraduate Research Assistant** Scripps Institution of Oceanography,
University of California, San Diego

Research Interests

Air-sea interaction, surface waves, and upper ocean processes

Grants

Current

- Directional Phase-Resolved Broadband Observations of Breaking Waves (**NSF**: 9/1/2023-7/31/2027). **PI**. \$712,215
- Improved Mechanistic Understanding of Hypoxia Drivers in Western Long Island Sound Enabled with Data from a Wire-Following Profiler and Coupled Biogeochemical-Hydrodynamic Modeling (**EPA/Connecticut Sea Grant**: 1/1/2025-12/31/2026). **Co-PI**. \$499,570
- Spray-mediated air-sea gas exchange of carbon dioxide in high winds (**NSF**: 9/1/2022-8/31/2027). **Co-PI**. \$385,388
- A Wind-Wave-Current Data Assimilation Scheme for the 3D-Real Time Mesoscale Analysis (**NOAA**: 9/1/2022-8/31/2026). **Co-PI**. \$899,795

Past

- Wirewalker Autonomous System for Interdisciplinary Research (**UConn CLAS Shared Equipment Internal Award**: 2022). **PI**. \$283K.
- Modulation of Bubble-Mediated Gas Transfer due to Wave-Current Interactions (**NSF**: 8/1/2019-7/31/2023). **PI**. \$293,095. Award initiated at UCSB and transferred to UConn in 2021.
- Numerical Modeling of Wave-Current Interactions in the Presence of Submesoscale Ocean Features (**ONR**: 07/1/2016-09/30/2019). **PI**. \$259,538
- Inner-Shelf Near-Surface Horizontal Dispersion in Support of Analysis of Possible Consequences of Large-Scale Oil-Spills under Various Scenarios (**CICESE**: 9/18/15-12/31/2020). **PI**. \$1,692,209

University Teaching

Graduate

2025	MARN 5068. Ocean Fluid Dynamics (UConn)
2021-2024	MARN 5064. Air-Sea Interaction (UConn)

Undergraduate

2026	MARN 2801WE. Marine Sciences and Society (UConn)
2021-2025	MARN 3001. Foundations of Marine Science (UConn)
2015-2016	GEOG 165. Waves and Tides in the Ocean (UCSB)

Service/Synergistic & Activities

Past 5 years	Peer-reviewer of scientific journals: <i>Journal of Physical Oceanography</i> , <i>Journal of Fluid Mechanics</i> , <i>Journal of Geophysical Research</i> , <i>Geophysical Research Letters</i> , <i>Proceedings of the National Academy of Sciences</i> , <i>Nature</i> , <i>Frontiers</i> , <i>Ocean Modelling</i> , <i>Ocean Dynamics</i> , <i>Ocean Science Discussions</i> , <i>Limnology and Oceanography</i> .
2025- present	Long Island Sound Partnership (LISP) Science and Technical Advisory Committee (STAC) member
2025- present	<i>Journal of Physical Oceanography</i> Associate editor
2013 - present	National Science Foundation proposal reviewer
2025	Israel Science Foundation proposal reviewer
2025	Served as a consulting expert on surface waves for the plaintiff in the Ochoa v. Hanson-Heidelberg case (21 L 6726); Circuit Court of Cook County, Illinois
2021	Proposal panel reviewer: <i>National Science Foundation</i> (NSF)
2020	Connecticut Sea Grant External Research Advisory Panel
2018	External advisor for the California State Water Resources Control Board. Helped with the modeling approach used to determine the potential environmental impact of a proposed water desalination plant in Huntington Beach
2017	Proposal panel reviewer: <i>Gulf of Mexico Research Initiative</i> (GOMRI)
2015	Used the Regional Ocean Modeling System to provide data about currents and dispersal rates to the NOAA Office of Response and Restoration during the oil spill at Refugio beach in Santa Barbara, California
2014	Research Council of Norway panel reviewer
2013	Guest lecturer for Coastal Ocean Processes class, Bren School of Environmental Science and Management Master's Program at UCSB. Spoke about coastal circulation, transport, and dispersion
2012	Presenter at UCSB Blue Horizons summer program for environmental media. Spoke about watersheds, stormwater runoff, and dispersal of freshwater plumes nearshore
2012	Lecturer at the NASA Student Airborne Research Program. Spoke about the coupled atmosphere-wave-ocean system and the importance of airborne instrumentation to observe upper ocean processes
2009	Participation in an interview for a documentary about marine protected areas called Parques Submarinos, a production by teenagers of diverse economic and cultural backgrounds living in the San Diego/Tijuana border region. A co-production between Wildcoast and Media Arts Center presented at the San Diego Latino Film Festival to promote ocean conservation awareness
2009	Invited lecturer at Montgomery Middle School, San Diego Unified School District, 8th-grade class. Spoke about ocean waves, including tsunamis
2007-2008	Organizing committee member of the 1st and 2nd International Meeting of Students in Physical Oceanography between students from Scripps Institution of Oceanography and Centro de Investigación Científica y de Educación Superior de Ensenada, Mexico

Professional Memberships

- American Geophysical Union
- American Meteorological Society

Honors & Awards

- 2025 [Cover image](#) selected for *Geophysical Research Letters* issue 14 featuring [Akaawase et al. \(2025\)](#)
- 2005 Outstanding Student Paper Award, American Geophysical Union Fall Meeting
- 2002 UCSD B.S. Physics degree with honors cum laude

Invited Meetings

- 2025 Invited Participant, Simons Foundation Collaboration on Wave Turbulence Annual Meeting, New York

University Supervision and Mentoring

Major Advisor

Ph.D. students:

Bernard Akaawase (2021-present)
Lucy Hendrickson (2022-present; co-advised w/Penny Vlahos)
Paban Bhuyan (2023-2026; co-advised w/Cesar Rocha)

M.S. students:

Nemesis Aguilar Tepole (2016-2018; co-advised with Enric Pallàs-Sanz)
*Center for Scientific Research and Higher Education at Ensenada (CICESE), Mexico.

Postdoctoral scholars:

Peisen Tan (2025-2026; co-advised w/Cara Manning)
Youngmi Shin (2021-2022)

Undergraduate students:

M'Lynn C. Gonzalez (2025-2026)
Shawn Morneau (2024-2025)
Hiryu Shinand (2024-2025)
Vicki You (2023–2024)
Jessie Steadman (2023)
Jeremy Hurt (2022)
Kabir Lubana (2019–2020; UCSB)

Associate Advisor

Ph.D. students:

Luke Glass (2025- present)

M.S. students:

Raymond T. Graham (2021)
Mackenzie Blanus (2024)
Brittney Collins (2025)

International Thesis Review

Daniel Santiago Peláez Zapata, Ph.D. (2024)

*Joint degree between University Paris-Saclay and University College Dublin.

University Service

2023-2026	Chair, Graduate Admissions Committee
2023-2024	Chair, Physical Oceanography Search Committee
2021-2023	Member, Graduate Admissions Committee
2020-2023	Member, Communications Committee
2020-2021	Member, Environment and Human Interactions College of Liberal Arts and Science Cluster Search Committee.
2021-present	Graduate Student Liaison
2021	Member of the Husky Network Mentoring Program

Manuscripts in Preparation

2. Bhuyan P.*, **Romero L.**, Rocha C. B., Farrar J. T. Frontogenesis and Forward Kinetic Energy Flux near Submesoscale Fronts from Saildrone Observations. *Journal of Physical Oceanography*.
1. Akaawase B.*, **Romero L.**, & Benetazzo A. Directional Wave Breaking Kinematics and Energy Balance of Short Gravity Waves. *Journal of Physical Oceanography*.

Manuscripts Submitted

1. Hypolite D., Dauhajre D.P., Ho M., **Romero L.**, & McWilliams J.C. (2026) The Regional Oceanic Modeling System with Non-Conservative Surface Gravity Wave Effects on Currents (ROMS-NCWEC). *Geoscientific Model Development (preprint)*.
doi:[10.5194/egusphere-2026-2942](https://doi.org/10.5194/egusphere-2026-2942)

Peer-reviewed Publications

25. Bhuyan P.*, Rocha C. B., **Romero L.**, Farrar J. T. (2026) Acoustic Doppler Current Profiler Measurements from Saildrones, with Applications to Submesoscale Studies. *Journal of Atmospheric and Oceanic Technology*, 43(2), 199–212.
doi:[10.1175/JTECH-D-24-0114.1](https://doi.org/10.1175/JTECH-D-24-0114.1)
24. Hendrickson L.*, **Romero L.**, & Vlahos P. (2026). Sea spray driven CO₂ efflux: modeling the effect of sea spray evaporation on carbonate chemistry and air-sea gas exchange. *npj Climate and Atmospheric Science*, 9, 31.
doi:[10.1038/s41612-025-01304-5](https://doi.org/10.1038/s41612-025-01304-5)

23. Akaawase B.*, **Romero L.**, & Benetazzo A. (2025). Observations of Wave-Breaking Direction and Energy Spread. *Geophysical Research Letters*, 52, e2025GL116452.
doi:[10.1029/2025GL116452](https://doi.org/10.1029/2025GL116452)
22. Hendrickson L.*, Vlahos P., & **Romero L.** (2024). Timescales for the Spray Mediated Gas Exchange of Carbon Dioxide. *Journal of Marine Science and Engineering*, 12, 1128.
doi:[10.3390/jmse12071128](https://doi.org/10.3390/jmse12071128)
21. Zhou X., Reichl B. G., **Romero L.**, & Deike L. (2023). A Sea State Dependent Gas Transfer Velocity for CO₂ Unifying Theory, Model, and Field Data. *Earth and Space Science*, 10 (11), e2023EA003237.
doi:[10.1029/2023EA003237](https://doi.org/10.1029/2023EA003237)
20. Hypolite D., **Romero L.**, McWilliams J.C., & Dauhajre D.P. (2023). Langmuir circulations transfer kinetic energy from submesoscales and larger scales to dissipative scales. *Journal of Physical Oceanography*, 53(1):253–268.
doi:[10.1175/JPO-D-22-0126.1](https://doi.org/10.1175/JPO-D-22-0126.1)
19. **Romero L.**, & Lubana K*. (2022). On the Bimodality of the Wind-Wave Spectrum: Mean Square Slopes and Azimuthal Overlap Integral. *Journal of Physical Oceanography*, 52(7):1549–1562.
doi:[10.1175/JPO-D-21-0299.1](https://doi.org/10.1175/JPO-D-21-0299.1)
18. Shin Y*, Deike L., & **Romero L.** (2022). Modulation of Bubble--Mediated CO₂ Gas Transfer Due To Wave--Current Interactions. *Geophysical Research Letters*, 49(22):1-11.
doi:[10.1029/2022GL100017](https://doi.org/10.1029/2022GL100017)
17. **Romero L.**, Hypolite D., & McWilliams J.C. (2021). Representing wave effects on currents. *Ocean Modelling*, 167, 101873.
doi:[10.1016/j.ocemod.2021.101873](https://doi.org/10.1016/j.ocemod.2021.101873)
16. Hypolite D., **Romero L.**, McWilliams J.C., & Dauhajre D.P. (2021). Surface gravity wave effects on submesoscale currents in the open ocean. *Journal of Physical Oceanography*, 61(11), 3365–3383.
doi:[10.1175/JPO-D-20-0306.1](https://doi.org/10.1175/JPO-D-20-0306.1)
15. **Romero L.**, Hypolite D., & McWilliams J.C. (2020). Submesoscale current effects on surface waves. *Ocean Modelling*, 153:101662. doi:[10.1016/j.ocemod.2020.101662](https://doi.org/10.1016/j.ocemod.2020.101662)
14. **Romero L.** (2019), Distribution of Surface Wave Breaking Fronts. *Geophysical Research Letters*, 46(17–18), 10463–10474.
doi:[10.1029/2019GL083408](https://doi.org/10.1029/2019GL083408)
13. **Romero L.**, Ohlmann J.C., Pallàs-Sanz E., Statom N.M., Pérez-Brunius P., & Maritorena S. (2019), Coincident Observations of Dye and Drifter Relative Dispersion over the Inner Shelf. *Journal of Physical Oceanography*, 49(9):2447–2468.
doi:[10.1175/JPO-D-19-0056.1](https://doi.org/10.1175/JPO-D-19-0056.1)
12. Ohlmann J.C., **Romero L.**, Pallàs-Sanz E., & Perez-Brunius P. (2019). Anisotropy in Coastal Ocean Relative Dispersion Observations. *Geophysical Research Letters*, 46(2), 879–888.
doi:[10.1029/2018GL081186](https://doi.org/10.1029/2018GL081186)
11. Large W.G., Patton E.G., DuVivier A.K., Sullivan P.P., & **Romero L.** (2019). Similarity Theory in the Surface Layer of Large-Eddy Simulations of the Wind-, Wave-, and Buoyancy-Forced Southern Ocean. *Journal of Physical Oceanography*, 49(8), 2165–2187.
doi:[10.1175/JPO-D-18-0066.1](https://doi.org/10.1175/JPO-D-18-0066.1)

10. Liu Q., Rogers W.E., Babanin A.V., Young I.R., **Romero L.**, Zieger S., Qiao F., & Guan C. (2019). Observation-Based Source Terms in the Third-Generation Wave Model WAVEWATCH III: Updates and Verification. *Journal of Physical Oceanography*, 49(2),489--517.
doi:[10.1175/JPO-D-18-0137.1](https://doi.org/10.1175/JPO-D-18-0137.1)
9. **Romero L.**, Lenain L., & Melville W.K. (2017). Observations of Surface Wave--Current Interaction. *Journal of Physical Oceanography*, 47(3),615--632.
doi:[10.1175/JPO-D-16-0108.1](https://doi.org/10.1175/JPO-D-16-0108.1)
8. **Romero L.**, Siegel D.A., McWilliams J.C., Uchiyama Y., & Jones C. (2016). Characterizing storm water dispersion and dilution from small coastal streams. *Journal of Geophysical Research: Oceans*, 121(6), 2015JC011323.
doi:[10.1002/2015JC011323](https://doi.org/10.1002/2015JC011323)
7. **Romero L.**, Uchiyama Y., Ohlmann J.C., McWilliams J.C., & Siegel D.A. (2013). Simulations of Nearshore Particle-Pair Dispersion in Southern California. *Journal of Physical Oceanography*, 43(9),1862--1879.
doi:[10.1175/JPO-D-13-011.1](https://doi.org/10.1175/JPO-D-13-011.1)
6. Sullivan P.P., **Romero L.**, McWilliams J.C., & Melville W.K. (2012). Transient Evolution of Langmuir Turbulence in Ocean Boundary Layers Driven by Hurricane Winds and Waves. *Journal of Physical Oceanography*, 42(11), 1959--1980.
doi:[10.1175/JPO-D-12-025.1](https://doi.org/10.1175/JPO-D-12-025.1)
5. **Romero L.**, Melville W.K., & Kleiss J.M. (2012). Spectral Energy Dissipation due to Surface Wave Breaking. *Journal of Physical Oceanography*, 42(9), 1421--1444.
doi:[10.1175/JPO-D-11-072.1](https://doi.org/10.1175/JPO-D-11-072.1)
4. **Romero L.**, & Melville W.K. (2011). Spatial Statistics of the Sea Surface in Fetch-Limited Conditions. *Journal of Physical Oceanography*, 41(10), 1821--1841.
doi:[10.1175/2011JPO4535.1](https://doi.org/10.1175/2011JPO4535.1)
3. **Romero L.**, & Melville W.K. (2010). Airborne Observations of Fetch-Limited Waves in the Gulf of Tehuantepec. *Journal of Physical Oceanography*, 40(3), 441--465.
doi:[10.1175/2009JPO4127.1](https://doi.org/10.1175/2009JPO4127.1)
2. **Romero L.**, & Melville W.K. (2010). Numerical Modeling of Fetch-Limited Waves in the Gulf of Tehuantepec. *Journal of Physical Oceanography*, 40(3):466--486.
doi:[10.1175/2009JPO4128.1](https://doi.org/10.1175/2009JPO4128.1)
1. Gille S.T., & **Romero L.** (2003). Statistical Behavior of ALACE Floats at the Surface of the Southern Ocean. *Journal of Atmospheric and Oceanic Technology*, 20(11),1633--1640.
doi:[10.1175/1520-0426\(2003\)020<1633:SBOAFA>2.0.CO;2](https://doi.org/10.1175/1520-0426(2003)020<1633:SBOAFA>2.0.CO;2)

Conference Proceedings

5. Melville W.K., Lenain L., **Romero L.**, Statom N. (2012), Airborne Lidar in support of Ocean Topography Missions and Science. *Proceedings of the 20 Years of Progress in Radar Altimetry*, 24-29
4. **Romero L.**, Melville W.K. (2010), Observations and Modeling of Linear and Nonlinear Spatio-Temporal Wave Statistics. *29th International Conference on Ocean, Offshore and Arctic Engineering*, Volume 2, 773--785.
doi:[10.1115/OMAE2010-21101](https://doi.org/10.1115/OMAE2010-21101)

3. Grue J., **Romero L.**, Kleiss J., Melville W.K. (2008), Orbital Velocity in Spatial Ocean Wave Elevation Measurement: Nonlinear Computation and Approximation. *Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE*, Volume 6, 135--141. doi:[10.1115/OMAE2008-57205](https://doi.org/10.1115/OMAE2008-57205)
2. Melville W.K., **Romero L.**, Kleiss J. (2008) Observations of surface waves and wave breaking: A tribute to Nick Newman. *Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE*, Volume 6, 239--245. doi:[10.1115/OMAE2008-57490](https://doi.org/10.1115/OMAE2008-57490)
1. Melville W.K., **Romero L.**, Kleiss J.M. (2005), Extreme wave events in the Gulf of Tehuantepec. *Rogue Waves: Proc. 14th 'Aha Huliko 'a Hawaiian Winter Workshop*, 23–28

Invited Talks and Seminars

13. Directional wave breaking kinematics from stereo visible and infrared field observations, Air-Sea Interaction Symposium, University of Rhode Island, June 2026
12. Directional Phase-Resolved Broadband Observations of Breaking Waves, Lamont-Doherty Earth Observatory, Ocean and Climate Physics Seminar, Nov 2025
11. Directional Kinematics of Breaking Surface Gravity Waves, Georgia Institute of Technology, November 2024 (virtual)
10. Wave Dissipation, Spectral Ranges, and Energy Balance. 30th WISE meeting, Corsica, France, April 2024
9. Empirical Constraints and Validation Metrics for Spectral Wind Wave Models in Idealized Conditions. Presentation for the WISE Zoominar, October 2022 (virtual)
8. Modulation of Bubble-Mediated Gas Transfer due to Wave-Current Interactions. Waves and Flows Seminar, University of Oxford, June 2022 (virtual)
7. Surface Wave Breaking Impacts on Spectral Bimodality and Mean-Squared-Slopes. Woods Hole Oceanographic Institution, Coastal Ocean Fluid Dynamics Laboratory Seminar, Woods Hole, MA, August 2021 (virtual)
6. Surface wave breaking and related air-sea fluxes. University of Rhode Island, Physical Oceanography Seminar, Narragansett, RI, November 2020 (virtual)
5. Surface wave breaking and related air-sea fluxes. Columbia University, Ocean and Climate Physics Seminar, Lamont-Doherty Earth Observatory, Palisades, NY, October 2020 (virtual)
4. Submesoscale Current Effects on Waves. National Oceanic and Atmospheric Administration (NOAA), Coastal Ocean Seminar Series, Coastal Marine Modeling Branch of the Coast Survey Development Lab (CSDL/CMMB), August 2020 (virtual)
3. Surface wave breaking and related air-sea fluxes. University of California, Santa Barbara, Climate Meeting, Earth Research Institute, Santa Barbara, CA, 2019
2. Spectral distribution of surface wave breaking fronts. University of California, San Diego, Climate, Atmospheric Science and Physical Oceanography Seminar, Scripps Institution of Oceanography, La Jolla, CA, 2019
1. Observations of Surface Wave-Current Interactions. Ken Melville Symposium, La Jolla, CA, 2016

Conference and Workshop Presentations

33. **Romero L.**, Akaawase B., and Benetazzo A. Directional Broadband Observations of Breaking Waves (talk). WISE Meeting, Venice, Italy, May 2026
32. **Romero L.**, Hendrickson L., and Vlahos P. Spray Mediated CO₂ Gas Exchange (talk). WISE Meeting, Seattle, WA, May 2025
31. **Romero L.**, Shin Y., Deike L., Akaawase B., Hurt J., and Steadman J. Modulation of Bubble-Mediated CO₂ Gas Transfer Due To Wave-Current Interactions (poster). 29th WISE meeting, Princeton, NJ, May 2023
30. **Romero L.**, Hypolite, D., and McWilliams, J. C. Representing Wave Effects on Currents (talk). Ocean Sciences, Virtual, March 2022
29. **Romero L.**, Ohlmann, C., Pallas-Sanz, E., and Perez Brunius, P. Dye and Drifter Observations over the Inner-Shelf of South Padre Island: Coastal Circulation, Cross-Shelf Transport, and Dispersion (invited poster presentation). Ocean Sciences, Virtual, March 2022
28. **Romero L.**, D., Hypolite, and J.C. McWilliams: Submesoscale Current Effects on Waves (poster). U.S. Climate Variability and Predictability Program (CLIVAR) - Surface Currents in the Coupled Ocean-Atmosphere System Workshop, La Jolla, 2020
27. **Romero L.**: Distribution of Surface Wave Breaking Fronts (talk). Ocean Sciences Meeting, San Diego, 2020
26. **Romero L.**, J. C. Ohlmann, E Pallàs-Sanz, N. M. Statom, P. Pérez-Brunius, and S. Maritorena: Observations of relative dispersion over the inner-shelf (talk). Seventh Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics, Venice, Italy, 2019
25. **Romero L.**, C. Ohlmann, E. Pallàs-Sanz, P. Perez-Brunius, and N. Aguilar-Tepole: Observations of relative dispersion over the inner-shelf (talk). Reunión Anual Unión Geofísica Mexicana, Puerto Vallarta, 2018
24. **Romero L.**, C. Akan, J. C. McWilliams, Y. Uchiyama: Numerical Modeling of Surface Waves in Southern California: Current Effects on Waves (talk). Waves in Shallow Environment, Tel Aviv, Israel, 2018
23. **Romero L.**, C. Ohlmann, E. Pallàs-Sanz, J. C. McWilliams, C. Akan, Y. Uchiyama, Nick Statom: Observations and Modeling of Wave-Current Interactions (talk). Planetary Boundary Layers in Atmospheres, Oceans, and Ice on Earth and Moons, Kavli Institute for Theoretical Physics, Santa Barbara, California, 2018
22. **Romero L.**, C. Ohlmann, E. Pallàs-Sanz, and N. Aguilar-Tepole: Lagrangian observations of two- and three-dimensional coastal flows: submesoscale fronts, vertical velocities and Langmuir circulation (poster). Ocean Sciences Meeting, Portland, 2018
21. **Romero L.**, C. Ohlmann, E. Pallàs-Sanz, and N. Aguilar-Tepole: Observations of coastal circulation and dispersion over the inner-shelf (talk). Reunión Anual Unión Geofísica Mexicana, Puerto Vallarta, 2017
20. **Romero L.**, D. A. Siegel, J. C. McWilliams, Y. Uchiyama and C. Jones: Characterizing Storm Water Dispersion and Dilution from Small Coastal Streams (talk). Ocean Sciences Meeting, New Orleans, 2016

19. **Romero L.**, Y. Uchiyama, J. C. McWilliams, C. Ohlmann, and D. A. Siegel: Anisotropic Relative Dispersion near the Southern California Coast (talk). Sixth Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics, Winter Harbor, ME, 2015
18. **Romero L.**, Y. Uchiyama, J. C. McWilliams, and D. A. Siegel: Inner Shelf Dispersion and Dilution of Creek Runoff (talk). 61st Annual Eastern Pacific Ocean Conference, Mt. Hood, OR, 2014
17. **Romero L.**, Y. Uchiyama, C. Ohlmann, J. C. McWilliams, and D. A. Siegel: Nearshore Anisotropic Relative Dispersion in Southern California (poster). Ocean Sciences Meeting, Hawaii, 2014
16. **Romero L.**, Y. Uchiyama, C. Ohlmann, J. C. McWilliams, and D. A. Siegel: Simulations of nearshore particle-pair dispersion in Southern California (talk). 60th Annual Eastern Pacific Ocean Conference, Fallen Leaf Lake, CA, 2013
15. **Romero L.**, Y. Uchiyama, C. Ohlmann, J. C. McWilliams, and D. A. Siegel: Coastal Dispersal in the Southern California Bight (poster). Long Term Ecological Research All Scientists Meeting, Estes Park, 2012
14. **Romero L.**, L. Lenain, W. K. Melville, E. Terrill and S. Y. Kim. Wave-Current Interaction near a SST Front (talk). Ocean Sciences Meeting, Salt Lake City, 2012
13. **Romero L.**, W. K. Melville, and J. M. Kleiss. Spectral Energy Dissipation due to Surface-Wave Breaking (talk). 12th International Workshop on Wave Hindcasting and Forecasting and 3rd Coastal Hazards Symposium, Wailoaloa, HI, 2011
12. **Romero L.** and W. K. Melville. Observations and Modeling of Linear and Nonlinear Spatio-Temporal Surface Wave Statistics (talk). Paper presented at the ASME 29th International Conference on Ocean, Offshore and Arctic Engineering, Shanghai, China, 2010
11. **Romero L.** and W. K. Melville. Spatial Wave Statistics in Fetch-Limited Conditions (talk). Waves in Shallow Environment Meeting, Brest, France, 2010
10. **Romero L.** and W. K. Melville. Observations and Numerical Modeling of Surface Waves (talk). American Meteorological Society Meeting, Phoenix, AZ, 2009
9. **Romero L.** and W. K. Melville. Observations and Numerical Modeling of Surface Waves (talk). Waves in Shallow Environment Meeting, Ensenada, Mexico, 2009
8. **Romero L.** and W. K. Melville. Airborne Observations of Wind-Wave Spectra in the Gulf of Tehuantepec (poster). Ocean Sciences Meeting, Orlando, FL, 2008
7. **Romero L.** and W. K. Melville. Airborne Observations of Fetch-limited Waves in the Gulf of Tehuantepec (talk). First International Meeting of Students in Physical Oceanography, Ensenada, Mexico, 2007
6. **Romero L.**, J. M. Kleiss, and W. K. Melville. Airborne Observations and Wind-Wave Modeling in the Gulf of Tehuantepec (talk). Waves in Shallow Environment Meeting, Lorne, Australia, 2007
5. **Romero L.** and W. K. Melville. Airborne Observations of Surface Waves in the Gulf of Tehuantepec (talk). Unión Geofísica Mexicana, Puerto Vallarta, Mexico, 2006
4. **Romero L.**, J. M. Kleiss, and W. K. Melville. Extreme Waves in the Gulf of Tehuantepec (poster). Ocean Sciences Meeting, Honolulu, HI, 2006
3. **Romero L.**, J. M. Kleiss, and W. K. Melville. Numerical Prediction of Wind Waves and Related Air-Sea Fluxes (poster). American Meteorological Society Meeting, Atlanta, GA, 2006

2. **Romero L.** and W. K. Melville. Airborne Observations & Numerical Simulation of Deep-Water Waves (talk). American Geophysical Union Fall Meeting, San Francisco, CA, 2005
1. **Romero L.** and W. K. Melville. Observations of Directional Wavenumber Spectra during GOTEX (talk), Waves in Shallow Environment Meeting (WISE), Explorer of the Seas, Royal Caribbean Cruise Lines in the Caribbean, 2005