

Jinbo Wang

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Last updates: 4/25/2025

Education

MIT/WHOI Joint Program, Massachusetts, Ph.D. in Physical Oceanography	June, 2011
MIT/WHOI Joint Program, Massachusetts, M.S. in Physical Oceanography	March, 2008
Peking University, China, M.S. in Atmospheric Sciences	June, 2005
Lanzhou University, China, B.S. in Meteorology	June, 2002

Research Interests

Satellite Oceanography, Geophysical fluid dynamics, small-scale ocean dynamics, upper ocean circulation, ocean's role in the climate system, machine learning for Ocean and Earth sciences, coastal processes

Professional Experience

Associate Professor, Texas A & M University	Jan 2025 - present
Jet Propulsion Laboratory	
Scientist	Nov 2015 – Dec 2024
Project Scientist, NASA PO.DAAC	Oct 2021 – Dec 2024
Postdoc scholar, Scripps Institution of Oceanography	Jan 2013 – Nov 2015
Postdoc investigator, Woods Hole Oceanographic Institution	Jun 2011 – Dec 2012
Research Assistant, MIT/WHOI Joint Program	Sep 2005 – Jun 2011
Research Assistant, Peking University	Sep 2002 – Jun 2005

Honors and Awards

- NASA Group Achievement Honor Award – Group Lead (2025)
- NASA Early Career Medal (2021)
- JPL Voyager Award, 2018, 2020, 2022, 2023
- JPL Team award (SWOT oceanography campaign), 2021
- Outstanding Student Paper Award, AGU Fall Meeting, San Francisco, CA, 2010
- Wusi scholarship, Peking University, 2003-2004
- Award for Excellent Social Contribution, Peking University, 2003-2004
- Guanghua Fellowship, Peking University, 2002-2003

Selected Peer-reviewed Journal Articles

Postdoc[#], corresponding*

Submitted

1. Cutolo, Granero-Belinchon, Thiriaux, **Wang**, Fablet - Simulation-informed deep learning for enhanced SWOT observations of fine-scale ocean dynamics (2026), arxiv.org
2. Zaron, Waterhouse, **Wang**, Send, Lucas - Observations of Baroclinic Tides in the California Current from the SWOT Satellite Altimeter and In Situ Data (2025), JGR Oceans (revision submitted)
3. Ellin Zhao, Edwin Goh, Alice Yepremyan, Jinbo **Wang**, and Brian Wilson - Multi-satellite U-Net for high-resolution sea surface temperature reconstruction (2025), Ocean Science (submitted) EGU sphere preprint: <https://doi.org/10.5194/egusphere-2025-4847>
4. Huang[#], **Wang** - A post-launch assessment of the noise level of the Ka-band Radar Interferometer from SWOT (2026), Earth and Space Science
5. Tchonang[#], **Wang** et al., SWOT Geostrophic Velocity Validation against in-situ measurements in the California Current (Accepted).

Published

1. Allison Ho[#], Jinbo **Wang**, Bruce Haines, Andy Wu, Scott Stalin - In-situ validation of small-scale spatial variability in significant wave height observations from SWOT (2025), Earth and Space Science, Vol. 12, pp. e2025EA004286, doi:10.1029/2025EA004286
2. Buijsman, M., Waterhouse, A., **others** - A Multi-Agency Experiment on Internal Wave Energy, Mixing, and Interactions and their Representation in Global Ocean Models and Operational Forecasts (2025), Journal of Geophysical Research: Oceans, Vol. Bulletin of the American Meteorological Society, doi:10.1175/BAMS-D-24-0174.1
3. Srinivasan, **others** - Launching into societal benefits from the Surface Water and Ocean Topography (SWOT) mission (2025), Water Resources Research, pp. e2024WR038436, doi:10.1029/2024WR038436
4. Kachelein[#], L., **Wang**, J., Lucas, A. J., Delpech, A., Farrar, J. T., Archer, M., others - Sub-100 km Ocean Processes Revealed by Structure Functions of SWOT Sea Surface Height and In Situ Observing Network (2025), Journal of Geophysical Research: Oceans, Vol. 130, pp. e2025JC022639, doi:10.1029/2025JC022639
5. **Wang**, J. *et al.* SWOT Mission Validation of Sea Surface Height Measurements at Sub-100 km Scales. *Geophys. Res. Lett.* **52**, (2025).
6. Callies, J., Marez, C. de, **Wang**, J. & Haines, B. Closure of the sea surface height budget with a Stokes offset. *J. Phys. Oceanogr.* (2025) doi:10.1175/jpo-d-25-0130.1.
7. Archer*, M., **Wang***, J., Klein, P. *et al.* Wide-swath satellite altimetry unveils global submesoscale ocean dynamics. *Nature* **640**, 691–696 (2025).
<https://doi.org/10.1038/s41586-025-08722-8>
8. Srinivasan, M. *et al.* Launching Into Societal Benefits From the Surface Water and Ocean Topography (SWOT) Mission. *Water Resour. Res.* **61**, (2025).

9. Qiu, B., Chen, S., **Wang, J.**, & Fu, L.-L. (2024). Seasonal and fortnight variations in internal solitary waves in the Indonesian seas from the SWOT measurements. *Journal of Geophysical Research: Oceans*, 129(7), e2024JC021086.
10. Goh, E., Yepremyan, A., **Wang, J.***, & Wilson, B. (2024). MAESSTRO: Masked autoencoders for sea surface temperature reconstruction under occlusion. *Ocean Science*, 20, 1309–1323. <https://doi.org/10.5194/os-20-1309-2024>
11. Yu, Y., Sandwell, D. T., Dibarboure, G., Chen, C., & **Wang, J.** (2024). Accuracy and resolution of SWOT altimetry: Foundation seamounts. *Earth and Space Science*, 11(6), e2024EA003581.
12. Cai, T., Zhao, Z., D'Asaro, E., **Wang, J.** & Fu, L. Internal Tide Variability Off Central California: Multiple Sources, Seasonality, and Eddying Background. *J. Geophys. Res.: Oceans* **129**, (2024).
13. Fu, L.-L., Morrow, R., Farrar, J. T. & **Wang, J.** A breakthrough of radar remote sensing of the ocean: the Surface Water and Ocean Topography (SWOT) Mission. (2024) doi:10.5194/egusphere-egu24-12599.
14. Torres, H., Wineteer, A., Klein, P., Lee, T., **Wang, J.**, Rodriguez, E., Menemenlis, D., & Zhang, H. (2023). Anticipated capabilities of the ODYSEA wind and current mission concept to estimate wind work at the air–sea interface. *Remote Sensing*, 15(13), 3337.
15. De Marez, C., Callies, J., Haines, B., Rodriguez-Chavez, D., & **Wang, J.** (2023). Observational constraints on the submesoscale sea surface height variance of balanced motion. *Journal of Physical Oceanography*, 53(5), 1221–1235.
16. **Wang, J.**, Torres, H., Klein, P., Wineteer, A., Zhang, H., Menemenlis, D., Ubelmann, C., & Rodriguez, E. (2023). Increasing the observability of near inertial oscillations by a future ODYSEA satellite mission. *Remote Sensing*, 15(18), 4526.
17. Seraj Al Mahmud Mostafa, **Wang, J.**, et al., "CNN based ocean eddy detection using cloud services", *IGARSS 2023-2023 IEEE International Geoscience and Remote Sensing Symposium.*, pp. 4052-4055, 2023.
18. Yu, X., Naveira Garabato, A. C., Vic, C., Gula, J., Savage, A. C., **Wang, J.**, Waterhouse, A. F., & MacKinnon, J. A. (2022). Observed equatorward propagation and chimney effect of near-inertial waves in the midlatitude ocean. *Geophysical Research Letters*, 49(13), e2022GL098522.
19. Torres, H. S., Klein, P., D'Asaro, E., **Wang, J.**, Thompson, A. F., Siegelman, L., Menemenlis, D., Rodriguez, E., Wineteer, A., & Perkovic-Martin, D. (2022). Separating energetic internal gravity waves and small-scale frontal dynamics. *Geophysical Research Letters*, 49(6), e2021GL096249.
20. Archer, M. R., Li, Z., **Wang, J.**, & Fu, L.-L. (2022). Reconstructing fine-scale ocean variability via data assimilation of the SWOT pre-launch in situ observing system. *Journal of Geophysical Research: Oceans*, 127(2), e2021JC017362.
21. **Wang, J.**, Fu, L.-L., Haines, B., Lankhorst, M., Lucas, A. J., Farrar, J. T., Send, U., Meinig, C., Schofield, O., Ray, R., et al. (2022). On the development of SWOT in situ

- calibration/validation for short-wavelength ocean topography. *Journal of Atmospheric and Oceanic Technology*, 39(5), 595–617.
22. Sun, Z., Sandoval, L., Crystal-Ornelas, R., Mousavi, S. M., **Wang**, J., Lin, C., Cristea, N., Tong, D., Carande, W. H., Ma, X., et al. (2022). A review of earth artificial intelligence. *Computers & Geosciences*, 159, 105034.
 23. Li, Z., Archer, M., **Wang**, J., & Fu, L.-L. (2021). Formulation and demonstration of an extended-3DVAR multi-scale data assimilation system for the SWOT altimetry era. *Ocean Science Discussions*, 2021, 1–26.
 24. Su, Z., Torres, H., Klein, P., Thompson, A. F., Siegelman, L., **Wang**, J., Menemenlis, D., & Hill, C. (2020). High-frequency submesoscale motions enhance the upward vertical heat transport in the global ocean. *Journal of Geophysical Research: Oceans*, 125(9), e2020JC016544.
 25. Qiu, B., Chen, S., Klein, P., Torres, H., **Wang**, J., Fu, L.-L., & Menemenlis, D. (2020). Reconstructing upper-ocean vertical velocity field from sea surface height in the presence of unbalanced motion. *Journal of Physical Oceanography*, 50(1), 55–79.
 26. Mazloff, M. R., Cornuelle, B., Gille, S. T., & **Wang**, J. (2020). The importance of remote forcing for regional modeling of internal waves. *Journal of Geophysical Research: Oceans*, 125(2), e2019JC015623.
 27. Li, Z., **Wang**, J., & Fu, L.-L. (2019). An observing system simulation experiment for ocean state estimation to assess the performance of the SWOT mission: Part 1—A twin experiment. *Journal of Geophysical Research: Oceans*, 124(7), 4838–4855.
 28. Zhao, Z., **Wang**, J., Menemenlis, D., Fu, L.-L., Chen, S., & Qiu, B. (2019). Decomposition of the multimodal multidirectional M2 internal tide field. *Journal of Atmospheric and Oceanic Technology*, 36(6), 1157–1173.
 29. **Wang**, J., & Fu, L.-L. (2019). On the long-wavelength validation of the SWOT KaRIn measurement. *Journal of Atmospheric and Oceanic Technology*, 36(5), 843–848.
 30. D’Ovidio, F., Pascual, A., **Wang**, J., Doglioli, A. M., Jing, Z., Moreau, S., Grégori, G., Swart, S., Speich, S., Cyr, F., et al. (2019). Frontiers in fine-scale in situ studies: Opportunities during the SWOT fast sampling phase. *Frontiers in Marine Science*, 6, 168.
 31. Morrow, R., et al. (including **Wang** in last-name alphabetical order) (2019). Global observations of fine-scale ocean surface topography with the surface water and ocean topography (SWOT) mission. *Frontiers in Marine Science*, 6, 232.
 32. Van Sebille, Griffies, S., et al., (in last-name alphabetical order including Wang) (2018). Lagrangian ocean analysis: Fundamentals and practices. *Ocean Modelling*, 121, 49–75.
 33. Torres, H. S., Klein, P., Menemenlis, D., Qiu, B., Su, Z., **Wang**, J., Chen, S., & Fu, L.-L. (2018). Partitioning ocean motions into balanced motions and internal gravity waves: A modeling study in anticipation of future space missions. *Journal of Geophysical Research: Oceans*, 123(11), 8084–8105.

34. Su, Z., **Wang**, J., Klein, P., Thompson, A. F., & Menemenlis, D. (2018). Ocean submesoscales as a key component of the global heat budget. *Nature Communications*, 9(1), 775.
35. Qiu, B., Chen, S., Klein, P., **Wang**, J., Torres, H., Fu, L.-L., & Menemenlis, D. (2018). Seasonality in transition scale from balanced to unbalanced motions in the world ocean. *Journal of Physical Oceanography*, 48(3), 591–605.
36. **Wang**, J., Fu, L.-L., Qiu, B., Menemenlis, D., Farrar, J. T., Chao, Y., Thompson, A. F., & Flexas, M. M. (2018). An observing system simulation experiment for the calibration and validation of the surface water ocean topography sea surface height measurement using in situ platforms. *Journal of Atmospheric and Oceanic Technology*, 35(2), 281–297.
37. Tamsitt, V., Drake, H. F., Morrison, A. K., Talley, L. D., Dufour, C. O., Gray, A. R., Griffies, S. M., Mazloff, M. R., Sarmiento, J. L., **Wang**, J., et al. (2017). Spiraling pathways of global deep waters to the surface of the Southern Ocean. *Nature Communications*, 8(1), 172.
38. **Wang**, J., Mazloff, M. R., & Gille, S. T. (2016). The effect of the Kerguelen Plateau on the ocean circulation. *Journal of Physical Oceanography*, 46(11), 3385–3396.
39. LaCasce, J. H., & **Wang**, J. (2015). Estimating subsurface velocities from surface fields with idealized stratification. *Journal of Physical Oceanography*, 45(9), 2424–2435.
40. Liu, L., Peng, S., **Wang**, J., & Huang, R. X. (2014). Retrieving density and velocity fields of the ocean's interior from surface data. *Journal of Geophysical Research: Oceans*, 119(12), 8512–8529.
41. **Wang**, J., Mazloff, M. R., & Gille, S. T. (2014). Pathways of the Agulhas waters poleward of 29°S. *Journal of Geophysical Research: Oceans*, 119(7), 4234–4250.
42. **Wang**, J., Spall, M. A., Flierl, G. R., & Malanotte-Rizzoli, P. (2013). Nonlinear radiating instability of a barotropic eastern boundary current. *Journal of Physical Oceanography*, 43(7), 1439–1452.
43. **Wang**, J., Flierl, G. R., LaCasce, J. H., McClean, J. L., & Mahadevan, A. (2013). Reconstructing the ocean's interior from surface data. *Journal of Physical Oceanography*, 43(8), 1611–1626.
44. **Wang**, J., Spall, M. A., Flierl, G. R., & Malanotte-Rizzoli, P. (2012). A new mechanism for the generation of quasi-zonal jets in the ocean. *Geophysical Research Letters*, 39(10), L10601.
45. **Wang**, J., Qian, W.-H., & Zhang, X. (2007). Relationship between the tropical cyclone genesis over the Northwest Pacific and the sea surface temperature anomalies. *Progress in Natural Science*, 17(10).
46. **Wang**, J.-B., & Qian, W.-H. (2005). Statistical analysis of tropical cyclone impact on the China mainland during the last half century. *Chinese Journal of Geophysics*, 48(5), 1069–1077.

Non-referred publications

1. **Fu, L.-L., Morrow, R., Farrar, J. T., & Wang, J.** (2024). A breakthrough of radar remote sensing of the ocean: The Surface Water and Ocean Topography (SWOT) Mission. In *EGU General Assembly Conference Abstracts* (p. 12599).
2. **Mostafa, S. A. M., Wang, J., Holt, B., Purushotham, S., & Wang, J.** (2023). CNN based ocean eddy detection using cloud services. In *IGARSS 2023-2023 IEEE International Geoscience and Remote Sensing Symposium* (pp. 4052–4055). IEEE.
3. **Tamsitt, V., Drake, H., Morrison, A., Talley, L., Dufour, C., Gray, A., Griffies, S., Mazloff, M., Sarmiento, J., Wang, J., et al.** (2017). Pathways of upwelling deep waters to the surface of the Southern Ocean. In *EGU General Assembly Conference Abstracts* (p. 10971).
4. **Wang, J.** (2021). *User guide of the ECCO-based Pre-SWOT numerical simulations – version 1*. PO.DAAC.
5. **Wang, J., & coauthors.** (2020). *SWOT Pre-launch field campaign 2019-2020 in-situ data - version 1*. PO.DAAC.
6. **Gille, S., & coauthors.** (2018). *Open Code Policy for NASA Space Science: A perspective from NASA-supported ocean modeling and ocean data analysis*. White paper in response to "Call for White Papers: Best Practices for a Future Open Code Policy for NASA Space Science."
7. **Wang, J., Fu, L., Qiu, B., Farrar, T., & Menemenlis, D.** (2016). *An Observing System Simulation Experiment (OSSE) on the design of an in-situ observing system for the CalVal of SWOT SSH measurement*. SWOT white paper, Jet Propulsion Laboratory, Caltech.
8. **Wang, J., Spall, M., Pedlosky, J., & Kamenkovich, I.** (2014). On the generation of zonal jets by radiating instability and small-scale stochastic wind forcing. In B. Galperin et al. (Eds.), *Zonal Jets*.
9. **Wang, J.** (2011). *Instabilities of an Eastern Boundary Current with and without Large-scale Flow Influence*. Ph.D. thesis, MIT/WHOI Joint Program in Physical Oceanography.
10. **Wang, J.** (2008). *On the warm bias along the South-West African Coast in coupled models: An oceanic perspective*. M.S. thesis, MIT/WHOI Joint Program in Physical Oceanography.

Community Services

- Lead, NASA Ocean AI working group (2025 - present)
- Lead, SWOT ST Regional Validation working group (2025 - present)
- Co-chair, US CLIVAR POS (2023 - 2025)
- Panel member, US CLIVAR POS (The Phenomena, Observations, and Synthesis Panel) (2021-2022)
- Member of the steering committee for the SWOT Adopt-A-Cross-Over international CLIVAR consortium

- Session co-Chair, Ocean Surface Topography Science Team (OSTST) (2019, 2020)
- Session Chair, SWOT Science Team meeting (2017)
- NASA PO-ROSES review panel
- Reviewer for Science, Journal of Physical Oceanography, Journal of Geophysical Research – Oceans, Ocean Dynamics, Marine Ecology Progress Series, Frontiers, Ocean Modeling, Scientific Reports, Acta Physica Sinica, Geoscience and Remote Sensing Letters, Pure and Applied Geophysics, Geoscience and Remote Sensing Letters

Field/Teaching Experience

- SWOT prelaunch field campaign, mooring deployment near the SWOT California Current CalVal site, September 2019
- Line-W cruise with chief scientist John Toole; did CTD watch, oxygen and salt sampling, mooring recovery and deployment, August 2012
- Teaching assistant for the class “Environment and Development of Western China”, 2003
- Participated the summer project “Weather and Climate of Southern Gansu Province” along the border of Gansu Province and Tibet Plateau, 2001

Funded Projects

- PI, Global Long-Term Trends in Eddy Kinetic Energy and Heat Flux 2025-2029 (NASA OSTST)
- PI, Advancing NASA Physical Oceanography Mission Science through Strategic Community Building, 2025-2028 (NASA PO program)
- Co-PI, Internal Wave Energy Challenge: A Distributed Network of Internal Wave Resolving Moored Arrays for Assessing Tide-Resolving Model Fields and Improving Forecasts in the Coastal Ocean, National Oceanography Partner Program, 2022 – 2025 (National Oceanographic Partner Program, NOPP)
- Co-I, SLICE: Semi-Supervised Learning for Changing Earth, 07/2022-07/2025 (NASA AIST)
- PI, Inferring Ocean vertical velocities from space: Enhancing SWOT and preparing WaCM, 2020-2022 (JPL/Caltech PDRDF project)

Workshop/Meeting/Presentations

- Wang J., 02/2025, Got a Big Hammer in AI/ML? Here Are Some Ocean Science Problems That Need It., Department of Statistics, UC Berkley,
- Wang J., 03/2025, Wide-swath satellite altimetry unveils global submesoscale ocean dynamics, Banse Seminar, University of Washinton
- Wang J., 03/2025, The status of the SWOT oceanography validation, FaST-SWOT team meeting, virtual presentation
- Wang J., 09/2024, organizer and host, US CLIVAR POS annual meeting, Caltech, Pasadena
- Wang J., 08/2024, US CLIVAR Science Steering Committee meeting, Washington DC
- Wang J., 08/2024, SWOT and eddy parameterization, Climate Process Team meeting, Brown University, RI

- Wang J. et al., 06/2024, presented “SWOT ocean validation Sub-100km scale ocean processes observed by SWOT”, organized “regional validation” session, Chapel Hill, NC
- Wang, 03/2024, NASA SMD AI workshop, Huntsville, AL
- Wang et al., 02/2024, SWOT ocean validation, AGU Ocean Sciences Meeting, New Orleans
- Wang J., 11/2023, Introduction to SWOT and NASA PO.DAAC, BlueTech week, San Diego, CA
- Wang J., 11/2023, session organizer/chair, Mesoscale and submesoscale oceanography session, San Juan, 00907, Puerto Rico
- Wang J., 09/2023, introduction to SWOT and sea level, NASA Sea Level Change Team meeting, Pasadena, CA
- Wang J., 09/2023, session organizer/chair, SWOT science team meeting, Toulouse, France
- Wang J., 07/2023, co-organizer, US CLIVAR Summit,
- Wang J., 01/2023, Introduction to SWOT, ECCO workshop, Pasadena, CA
- Wang J. 12/2022, Get Ready for SWOT: the Status of the SWOT Oceanography Calibration and Validation Campaigns, AGU fall meeting, Chicago
- Wang J., 11/2022, Internal wave observing array, Kick off meeting, National Oceanography Partner Program, Scripps Institution of oceanography, San Diego
- Wang J., 10/2022, co-organize the US CLIVAR POS panel annual meeting, Seattle
- Wang J. 08/2022, FilaChange workshop, Brown, RI
- Wang J., 06/2022, session organizer, SWOT science team meeting, UNC, Chapel Hill, North Carolina
- Wang J., 03/2022, co-organizer, US CLIVAR summit,
- Wang J., 03/2022, co-organized *Global atmosphere-ocean coupled simulations at sub-10km-scale resolution and the application to the design of future satellite missions that focus on direct measurements of ocean surface current*, presented “Wang J., L-L Fu: What does SSH represent at small scales (<150km)?”
- Wang J. (session organizer), Sep. 2021, SWOT science team meeting, virtual
- Wang J. (instructor), Aug. 2021, Where is global warming, JPL Center for Climate Science Summer school, Pasadena
- Wang J., L.-L. Fu, F. d’Ovidio, 2020: AGU Fall Meeting Town Hall: SWOT Invites the Science Community to Join the Postlaunch in Situ Field Campaigns (town hall organizer)
- J. Wang, L.-L. Fu, B. Haines, 2020: Measuring SSH at sub-centimeter level using in-situ platforms in preparation for the SWOT post-launch SSH Calibration and Validation, (virtual presentation) OSTST 2020
- J. Wang, L.-L. Fu, M. Archer, B. Haines, 2020: SWOT and SWOT CalVal, Southern California GFD workshop, 2020 (virtual)
- J. Wang, I. Fenty, 2020: Instructor: Where is global warming, NASA CCS climate summer school, JPL (virtual)
- Wang J., Z. Li, L.-L. Fu, 2020: Multiscale data assimilation for SWOT ocean application, AGU Ocean Sciences Meeting, San Diego
- Wang J., 2020: Introduction to SWOT, AGU Ocean Sciences Meeting, San Diego
- Wang J., 2019: A multiscale data assimilation system for validating sea surface height by the upcoming SWOT mission, Ocean Surface Topography Science Team (OSTST), Chicago
- Wang J., 2019: Instructor: Where is global warming, NASA CCS summer school, Pasadena

- Wang J. 2019: Multiscale Data Assimilation for SWOT Ocean Application, SWOT Science Team Meeting Bordeaux, France
- Wang J., L.-L. Fu, 2018: LL4320 and SWOT, ECCO annual meeting, Austin, TX
- Wang J., L.-L. Fu, 2018: SWOT CalVal in the California Current System (CCS) potential scientific outcomes beyond 1D validation, SWOT workshop, DC
- Wang J., L.-L. Fu, 2018: Introduction to SWOT, COSPAR, Pasadena
- Wang J., L.-L. Fu, 2018: numerical simulations for the SWOT prelaunch planning and postlaunch data assimilation, SWOT workshop before Ocean Sciences meeting, Portland
- Wang J., L.-L. Fu, 2017: The application of the LLC4320 in the SWOT prelaunch activities, ECCO annual meeting, Pasadena
- Wang J. and coauthors, 2017: SWOT ocean in-situ CalVal - An OSSE study, SWOT Science Team meeting, Toulouse, France
- Wang J., 2017: Interior PV for the 3D inversion, SWOT Science Team meeting, Toulouse, France
- Zhan S., J. Wang, P. Klein, A. F. Thompson, D. Menemenlis, L.L. Fu, Seasonality and intermittency of the ocean dynamics at scales smaller than 100km in the world ocean: A scientific challenge for SWOT, American Geophysical Union Fall meeting, San Francisco, December 2016
- Wang J., L.L. Fu, SWOT Ocean CalVal, American Geophysical Union Fall meeting, San Francisco, December 2016
- Wang J., L.L. Fu, SWOT Ocean CalVal, SWOT Science Team meeting, Pasadena, June, 2016.
- Wang J., Inferring 3D mesoscale eddy structure from surface fields, Caltech, April, 2016 (invited).
- Wang J., Simulating tracer spreading using particles - the development of an offline Lagrangian model (Octopus), Future Lagrangian Ocean Modelling workshop, Imperial College, London, September 2015.
- Wang J., On the reconstruction of ocean dynamics from ocean surface data, JPL, March, 2014.
- Wang J., On the formation of the quasi-zonal striations in the ocean by radiating instabilities of an eastern boundary current, International Space Science Institute, Bern Switzerland, April 2013.
- Wang J., Two lectures about the vertical partition of the horizontal kinetic energy in the ocean, Workshop on the wind-driven circulation in the world ocean, Guangzhou, China, October 2012. (invited)
- Wang, J., Reconstructing the ocean's interior from surface data, WHOI, September 2012; UMASS-Dartmouth (invited), Oct. 2012;
- Wang, J., Radiating instabilities of an eastern boundary current and the formation of the zonal striations in the ocean, University of Rhode Island, April, 2012.
- Wang, J., Nonlinear radiating instabilities of an idealized eastern boundary current with and without large-scale flow influence, Princeton AOS/GFDL seminar, March, 2012. (invited)
- Wang, J., A. Mahadevan, Vertical velocities in an upper ocean front from a Lagrangian perspective, Poster Presentation at the Workshop in Montreal: "Balance, Boundaries and Mixing in the Climate System" September 28-30, 2011

- Wang, J., P. Malanotte-Rizzoli, M. Spall, Influence of a large-scale circulation on an eastern boundary current, Poster Presentation at AGU Annual Fall Meeting, San Francisco, CA, December 12-17, 2010.
- Wang, J., P. Malanotte-Rizzoli, M. Spall, The influence of a large-scale circulation on an eastern boundary current, Oral Presentation at International Meeting of Students in Physical Oceanography (IMSPO), University of Washington, Seattle, WA, September 22-24, 2010.
- Participant of the Workshop on Ocean Mesoscale Eddies, Met Office, Exeter, UK, 27-29 April 2009
- Participant of the 13th Annual CCSM Workshop, Breckenridge, CO, 17-19 June 2008.
- Wang, J., M. Jochum, and P. Malanotte-Rizzoli, An oceanic perspective on the coastal SST bias in climate models, Oral presentation at CGD, NCAR, June 16, 2008
- Wang, J., M. Jochum, and P. Malanotte-Rizzoli, An oceanic perspective on the coastal SST bias in climate models, Poster presentation at the AGU Ocean Sciences Meeting, Orlando, FL, 2-7 March, 2008.
- Wang, J., WH Qian, Comparison of different thermocline definitions over the tropical Pacific, Oral presentation at the conference "The effects of ocean-atmosphere-land interaction in Asian monsoon region on China climate" Jinan, Shandong, China, Aug 2004.