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EDUCATION:

- B.S. 2000 Fluid Mechanics, Zhejiang University, China
- M.E. 2003 Fluid Mechanics, Zhejiang University, China
- Ph.D. 2009 Oceanography, Rutgers, The State University of New Jersey

PROFESSIONAL EXPERIENCE:

- 2018 – present Associate Scientist with Tenure, Woods Hole Oceanographic Institution
- 2015 – 2018 Associate Scientist, Woods Hole Oceanographic Institution
- 2011 – 2015 Assistant Scientist, Woods Hole Oceanographic Institution
- 2009 – 2011 Postdoctoral Scholar, Woods Hole Oceanographic Institution
- 2004 – 2009 Research Assistant, Institute of Marine and Coastal Sciences, Rutgers University

AWARDS AND HONORS:

- 2009 Woods Hole Oceanographic Institution Postdoctoral Scholarship
- 2008 Invited to Physical Oceanography Dissertation Symposium
- 2008 AGU Ocean Science Meeting Travel Award
- 2003 Rutgers University Graduate Fellowship

PROFESSIONAL AFFILIATIONS:

- American Geophysical Union
- American Meteorological Society
- The Oceanographic Society

RESEARCH INTERESTS:

Coastal ocean circulation, polar oceanography, frontal dynamics, internal wave dynamics, gravity currents, bio-physical interactions, numerical ocean modeling, data assimilation, model-based observing system design

PROFESSIONAL ACTIVITIES:

WHOI

- 2012 – 2014 WHOI Summer Student Fellowship Selection Committee
- 2011 – 2015 WHOI Community Cluster (Scylla) Advisory Committee
- 2016 – 2018 WHOI Scientific Staff Executive Committee (SciSEC)

- 2016 – present WHOI Information System Advisory Committee
- 2018 – present WHOI Postdoctoral Scholarship Selection Committee
- 2018 – present WHOI AOP&E Postdoctoral Mentoring Committee Chair

Outside WHOI

- Invited to NSF EarthCube Early Career Strategic Visioning Workshop, Oct 16–17, 2012
- Panelist and proposal reviewer for NSF Division of Ocean Sciences
- Invited to participate in NSF OOI cyber-infrastructure beta test
- Invited to NSF OOI Coastal Arrays Workshop, Jan 5-7, 2016
- Invited to present at OOIFB Town Hall at Ocean Science Meeting, Portland, Oregon, Feb 13, 2018
- Reviewed manuscripts for *Applied Mathematical Modelling*, *Chinese Journal of Oceanology and limnology*, *Continental Shelf Research*, *Deep-Sea Research*, *Dynamics of Atmospheres and Oceans*, *Geophysical Research Letters*, *Journal of Atmospheric and Oceanic Technology*, *Journal of Geophysical Research – Oceans*, *Journal of Ocean University of China*, *Journal of Physical Oceanography*, *Ocean Dynamics*, *Ocean Modelling*, and *PLOS ONE*

SUPERVISION AT WHOI:

- Sep 2012 – Mar 2014 Ilya Udovydchenkov
- May 2016 – Jul 2016 Jacob Partida (summer student fellow)
- Oct 2016 – Mar 2017 Bofu Zheng (guest undergraduate student)
- May 2017 – Aug 2017 Jacob Partida (summer student fellow)
- Apr 2017 – Jul 2018 Zhen Cheng (postdoc; co-advising with Peter Traykovski)
- Jul 2017 – Feb 2019 Cristina Schultz (MIT-WHOI JP student, co-advising with Scott Doney)
- Jun 2018 – present Yilang Xu (MIT-WHOI JP student)
- Oct 2018 – present Canbo Xiao (guest graduate student)

TEACHING:

- Nov 2016, Guest lecturer in *Coastal Physical Oceanography*, MIT-WHOI Joint Program course 12.862 (taught by Robert Todd and David Ralston)
- Spring 2018 *Computational Ocean Modeling*, MIT-WHOI Joint Program course 12.850 (co-teaching with Amala Mahadevan)

CRUISE PARTICIPATION:

- Aug 2018 R/V Henry Bigelow, HB1805, the WHOI Twilight Zone Project Deep-See Test and Evaluation Cruise, New Port to New Port
physical oceanographer, help test and evaluation of the Deep-See vehicle in the slope sea
- Apr 2018 R/V Neil Armstrong, AR29, Shelfbreak Frontal Dynamics and Biophysical Interaction

- Project Cruise, Woods Hole to Woods Hole
Physical Oceanographer, CTD and Echo-sounder operator, real-time data analyst
Conducted physical, biological, and acoustic survey at the New England shelfbreak region
- Oct 2017 AR24A, R/V Neil Armstrong OOI Pioneer Array Maintenance Cruise (CTD and Echo-sounder operator)
Conducting acoustic and hydrographic survey at the New England shelfbreak region
- May 2017 AR19A, R/V Neil Armstrong OOI Pioneer Array Maintenance Cruise (CTD and Echo-sounder operator)
Conducting acoustic and hydrographic survey at the New England shelfbreak region
- Jun 2016 AR06, R/V Neil Armstrong Science Verification Cruise VI (CTD operator and physical oceanographer)
Sampling of circulation and biophysical Interactions at the New England shelfbreak, slope, and canyon regions
- Apr 2016 Monsoon Onset Monitoring and its Social and Ecosystem Impact (MOMSEI) 2016 Cruise in Andaman Sea, R/V Chakratong Tongyai (ecosounder operator)
Measuring solitary internal waves and its impact on shelf circulation and ecology
- Aug 2010 R/V *Tioga*
One-day hydrographic survey of the flow east of Cape Cod with a REMUS-100
- May 2010 OC460, R/V *Oceanus* (CTD operator)
Synoptic mapping of hydrography and *Alexandrium fundyense* concentration on Georges Bank and in the Gulf of Maine
- Aug 2006 US Coast Guard Cutter *Sturgeon Bay*
One-day hydrographic survey in New York Harbor
- May 2005 One-day hydrographic survey in Passaic River, New Jersey
- Apr 2004 One-day mooring deployment in New York Bight

PAPERS IN REFEREED JOURNALS AND BOOKS:

- Zhang, W. G.**, and J. Partida*, 2018: Frontal subduction of the Mid-Atlantic Bight shelf water at the onshore edge of a warm-core ring, *Journal of Geophysical Research - Oceans*, 123(11), 7795-7818.
- Gawarkiewicz, G. G., R. E. Todd, **W. G. Zhang**, J. Partida*, A. Gangopadhyay, M.-U.-H. Monim, P. Fratantoni, A. M. Mercer, and M. Dent, 2018: The changing nature of shelf break exchange revealed by the OOI Pioneer Array, *Oceanography*, 31(1), 60-70.
- Zhang, W. G.**, and S. J. Lentz, 2018: Wind-driven circulation in a shelf valley. Part II: Dynamics of the along-valley velocity and transport, *Journal of Physical Oceanography*, 49, 883-904.
- Zhang, W. G.**, and S. J. Lentz, 2017: Wind-driven circulation in a shelf valley. Part I: Mechanism of the asymmetrical response to along-shelf winds in opposite directions, *Journal of Physical Oceanography*, 47, 2927-2947.

- Zhang, W. G.**, and G. G. Gawarkiewicz, 2015: Dynamics of the Direct Intrusion of Gulf Stream Ring Water onto the Mid-Atlantic Bight Shelf, *Geophysical Research Letters*, 42, 7687-7695.
- Zhang, W. G.**, and G. G. Gawarkiewicz, 2015: Length-scale of the finite-amplitude meanders of shelfbreak fronts, *Journal of Physical Oceanography*, 45, 2598-2620.
- Chen, K, G. Gawarkiewicz, Y.-O. Kwon, and **W. G. Zhang**, 2015: The role of atmospheric forcing versus ocean advection during the extreme warming of the Northeast U.S. continental shelf in 2012, *Journal of Geophysical Research: Oceans*, 120, 4324-4339.
- Li, Y., W. Han, J. L. Wilkin, **W. G. Zhang**, H. Arango, J. Zavala-Garay, J. Levin, F. S. Castruccio, 2014: Interannual variability of the surface summertime eastward jet in the South China Sea, *Journal of Geophysical Research – Oceans*, 119, 7205-7228.
- Zhang, W. G.**, C. Cenedese, 2014: The dispersal of dense water formed in an idealized coastal polynya on a shallow sloping shelf, *Journal of Physical Oceanography*, 44(6), 1563-1581.
- Zhang, W. G.**, T. F. Duda, Ilya A. Udovydchenkov, 2014: Modeling and analysis of internal-tide generation and beam-like onshore propagation in the vicinity of shelfbreak canyons, *Journal of Physical Oceanography*, 44(3), 834-849.
- Zhang, W. G.**, T. F. Duda, 2013: Intrinsic nonlinear and spectral structure of internal tides at a shelfbreak, *Journal of Physical Oceanography*, 43(12), 2641-2660.
- Zhang, W. G.**, D. J. McGillicuddy, and G. G. Gawarkiewicz, 2013: Is biological productivity enhanced at the New England Shelfbreak Front? *Journal of Geophysical Research – Oceans*, 118(1), 517-535.
- Garau, B., Ruiz, B., **W. G. Zhang**, A. Pascual, E. Heslop, J. Kerfoot, and J. Tintore, 2011: Thermal lag correction on Slocum CTD glider data, *Journal of Atmospheric and Oceanic Technology*, 28(9), 1065-1071.
- Zhang, W. G.**, G. G. Gawarkiewicz, D. J. McGillicuddy, and J. L. Wilkin, 2011: Climatological mean circulation at the New England shelf break, *Journal of Physical Oceanography*, 41(10), 1874-1893.
- Wilkin, J. L., **W. G. Zhang**, B. Cahill and R. C. Chant, 2011: Integrating coastal models and observations for studies of ocean dynamics, observing systems and forecasting, In *operational Oceanography in the 21st Century*, A. Shiller and G. Brassington (eds.), Springer, pp 487-512 (book chapter), DOI: 10.1007/978-94-007-0332-2_19.
- Zhang, W. G.**, J. L. Wilkin, J. C. Levin, 2010b: Towards building an integrated observation and modeling system in the New York Bight using variational methods, Part II: representer-based observing system evaluation, *Ocean Modelling*, 35(3), 134-145.
- Zhang, W. G.**, J. L. Wilkin, H. G. Arango, 2010a: Towards building an integrated observation and modeling system in the New York Bight using variational methods, Part I: 4DVAR data assimilation, *Ocean Modelling*, 35(3), 119-133.
- Zhang, W. G.**, J. L. Wilkin, O. M. E. Schofield, 2010: Simulation of age and residence time in the New York Bight, *Journal of Physical Oceanography*, 40(5), 965-982.
- Zhang, W. G.**, J. L. Wilkin, J. C. Levin, H. G. Arango, 2009b: An Adjoint Sensitivity Study of Buoyancy- and Wind-driven Circulation on the New Jersey Inner Shelf, *Journal of Physical Oceanography*, 39(7), 1652-1668.

- Zhang, W. G.**, J. L. Wilkin, R. J. Chant, 2009a: Modeling of the pathways and mean dynamics of river plume dispersal in New York Bight, *Journal of Physical Oceanography*, 39(5), 1167-1183.
- Chant, R. J., J. Wilkin, **W. G. Zhang**, B.-J. Choi, E. Hunter, R. Castelao, S. Glenn, J. Jurisa, O. Schofield, R. Houghton, J. Kohut, T.K. Frazer, and M.A. Moline, 2008: Dispersal of the Hudson River Plume in the New York Bight: synthesis of observational and numerical studies during LaTTE, *Oceanography*, 21(4), 148-161.
- Lin, J. Z., K. Sun, **W. G. Zhang**, 2008: Orientation distribution of fibers and rheological property in fiber suspensions flowing in a turbulent boundary layer, *ACTA MECHANICA SINICA*, 24(3), 243-250.
- Wilkin, J. L., **W. G. Zhang**, 2007: Modes of mesoscale sea surface height and temperature variability in the East Australian Current, *Journal of Geophysical Research*, 112(C1), C01013.
- Zhang, S. L., J. Z. Lin, **W. G. Zhang**, 2007: Numerical research on the fiber suspensions in a turbulent T-shaped branching channel flow, *Chinese Journal of Chemical Engineering*, 15(1), 30-38.
- Lin, J. Z., L. X. Zhang, **W. G. Zhang**, 2006: Rheological behavior of fiber suspensions in a turbulent channel flow, *Journal of Colloid and Interface Science*, 296(2), 721-728.
- Zhang, L. X., J. Z. Lin, **W. G. Zhang**, 2006: Theoretical model of particle orientation distribution function in a cylindrical particle suspension subject to turbulent shear flow, *Progress in Natural Science*, 16(1), 16-20.
- Lin, J. Z., J. Li, **W. G. Zhang**, 2005: Orientation distribution of fibres in a channel flow of fibre suspension, *Chinese Physics*, 14(12), 2529-2538.
- Lin, J. Z., Y. L. Wang, **W. G. Zhang**, 2005: Sedimentation of short cylindrical pollutants with mechanical contacts, *Journal of Environmental Sciences*, 17(6), 906-911.
- You, Z. J., J. Z. Lin, X. M. Shao, **W. G. Zhang**, 2004: Stability and drag reduction in transient channel flow of fibre suspension, *Chinese Journal of Chemical Engineering*, 12(3), 319-323.
- Lin, J. Z., J. Li, **W. G. Zhang**, 2004: The force for cylindrical particles in an elongational-shear flow, *International Journal of Nonlinear Sciences and Numerical Simulation*, 5(1), 9-16.
- Lin, J. Z., **W. G. Zhang**, Z. S. Yu, 2004: Numerical research on the orientation distribution of fibers immersed in laminar and turbulent pipe flows, *Journal of Aerosol Science*, 35(1), 63-82.
- Zhang, W. G.**, J. Z. Lin, 2004: Research on the motion of particles in the turbulent pipe flow of fiber suspensions, *Applied Mathematics and Mechanics*, 25(7), 417-750.
- Zhang, W. G.**, J. Z. Lin, 2003: Research on the orientation of cylindrical particles in gas-solid two-phase pipe flows, *ACTA Aerodynamica Sinica*, 21(2), 237-243. (In Chinese)
- Lin, J. Z., **W. G. Zhang**, Y. L. Wang, 2002: Research on the orientation distribution of fibers immersed in a pipe flow, *Journal of Zhejiang University SCIENCE (English Edition)*, 3(5), 501-506.

PAPERS IN CONFERENCE PROCEEDINGS:

- Duda, T. F., **W. G. Zhang**, K. R. Helfrich, Y.-T. Lin, and A. E. Newhall, 2016: Modeling internal solitary wave development at the head of a submarine canyon. In VIIIth International Symposium on Stratified Flows, San Diego, USA, Aug. 29 – Sep. 1, 2016, (8 pp.).

- Duda, T. F., **W. G. Zhang**, K. R. Helfrich, A. E. Newhall, Y.-T. Lin, and J. F. Lynch, 2014: Issues and progress in the prediction of ocean submesoscale features and internal waves. In *Oceans '14 St. Johns Conference Proceedings*, IEEE/MTS, (9 pp.).
- Duda, T. F., Y.-T. Lin, A. E. Newhall, K. R. Helfrich, **W. G. Zhang**, M. Badiéy, P. F. J. Lermusiaux, J. A., Colosi, and J. F. Lynch, 2014: The “Integrated Ocean Dynamics and Acoustics” (IODA) hybrid modeling effort. In *Proceedings of the international conference on Underwater Acoustics – 2014 (UA2014)*, 621-628, 22–27 June 2014, Island of Rhodes, Greece, doi: 10.13140/2.1.2853.3123.
- Duda, T. F., **W. G. Zhang**, and Y.-T. Lin, 2012: Studies of internal tide generation at a slope with nonlinear and linearized simulations: Dynamics and implications for ocean acoustics. In *Oceans 2012, Hamptons Road, Virginia, Conference Proceedings*, MTS/IEEE.
- Duda, T. F., Y.-T. Lin, **W. G. Zhang**, B. D. Cornuelle, P. F. J. Lermusiaux, 2011: Computational studies of three-dimensional ocean sound fields in areas of complex seafloor topography and active ocean dynamics. In *Proceedings of the 10th International Conference on Theoretical and Computational Acoustics*, ICTCA 2011, Taipei, Taiwan, World Scientific Publishing.
- Duda, T.F., Y.-T. Lin, A.E. Newhall, **W. G. Zhang**, and J.F. Lynch, 2010: Computational studies of time-varying three-dimensional acoustic propagation in canyon and slope regions. In *Oceans 2010, Seattle, WA, Conference Proceedings*, IEEE/MTS.
- Wilkin, J., J. Zavala-Garay, J., Levin, and **W. G. Zhang**, 2008: Four-dimensional variational assimilation of satellite temperature and sea level data in the coastal ocean and adjacent deep sea, *Geoscience and Remote Sensing Symposium*, IGARSS 2008, IEEE International, 3, pp.III-427-III-430, 7-11 July 2008, doi: 10.1109/IGARSS.2008.4779375.

INVITED PRESENTATIONS:

- 2018 “Asymmetrical response of flow in a shelf valley to along-shelf winds of opposite directions”, 19 June, Hong Kong University of Science and Technology, Hong Kong.
“Asymmetrical response of flow in a shelf valley to along-shelf winds of opposite directions”, 20 June, Eastern China Normal University, Shanghai, China.
“Processes of cross-shelf exchange revealed by OOI Pioneer Array”, 21 June, Shanghai Jiaotong University, Shanghai, China.
“Processes of cross-shelf exchange revealed by OOI Pioneer Array”, 22 June, Second Institute of Oceanography, Hangzhou, China.
“Asymmetrical response of flow in a shelf valley to along-shelf winds of opposite directions”, 25 June, Zhejiang University – Ocean College, Zhoushan, Zhejiang, China,
“Processes of cross-shelf exchange revealed by OOI Pioneer Array”, 3 July, First Institute of Oceanography, Qingdao, China.
“Asymmetrical response of flow in a shelf valley to along-shelf winds of opposite directions”, 26 July, Ocean University of China, Qingdao, China.
- 2016 “Direct intrusion of the Gulf Stream warm-core ring water onto the Mid-Atlantic Bight continental shelf”, Oct 24, University of New South Wales, Sydney, Australia.
“Frontal instability and warm-core ring water intrusion at the Mid-Atlantic Bight shelfbreak”, Apr 8, Lamont-Doherty Earth Observatory, NY.
“Frontal instability and warm-core ring water intrusion at the Mid-Atlantic Bight

- shelfbreak”, Apr 25, South China Sea Institute of Oceanography, Chinese Academy of Science, Guangzhou, China.
- 2015 “Tidally driven internal wave generation at the edge of a continental shelf.” The 6th WESTPAC Summer School on Monsoon Onset Monitoring and Its Social & Ecosystem Impacts (MOMSEI Summer School – VI), Oct 26-30, 2015, Phuket Marine Biology Center, Phuket, Thailand.
- “Internal waves and frontal instability at the Mid-Atlantic Bight continental shelfbreak.” *Gordon Research Conference – Coastal Ocean Modeling*, Jun 7-12, 2015, University of New England, Biddeford, ME.
- 2014 “The generation of internal tides at a shelf edge.” May 12, College of Physical and Environmental Oceanography, Ocean University of China, Qingdao, China.
- “The generation of internal tides at a shelf edge.” May 10, Department of Information Science & Electronic Engineering, Zhejiang University, Hangzhou, China.
- “The generation of internal tides at a shelf edge.” May 8, The Second Institute of Oceanography, State Ocean Administration, Hangzhou, China.
- 2013 “Dispersal of the Hudson River plume in the New York Bight.” Oct 25, State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, China.
- “Dispersal of the Hudson River plume in the New York Bight.” Oct 22, Ocean College, Zhejiang University, Hangzhou, China.
- 2012 “Is biological productivity enhanced at the New England Shelfbreak?” Apr 18, The School for Marine Science and Technology, University of Massachusetts Dartmouth.
- 2010 “Pathways and time scales of the freshwater dispersal on the New York Bight.” Sep 17, Graduate School of Oceanography, University of Rhode Island.
- 2009 “Towards building an integrated observation and modeling system in the New York Bight using variational methods.” Glider Data Assimilation Workshop, Sep. 17-18, Chapel Hill, North Carolina.
- 2008 “Modeling of the New York Bight for freshwater dispersal study and observing system design.” Dec. 10, Applied Ocean Physics & Engineering Department, Woods Hole Oceanographic Institution, Massachusetts.
- “Coastal Ocean Modeling Using Variational Methods for Data Assimilation and Observing System Design.” Oct. 17, Department of Civil and Environmental Engineering, Princeton University, New Jersey.
- “Coastal Ocean Modeling Using Variational Methods for Data Assimilation and Observing System Design.” *Physical Oceanography Dissertation Symposium*, Oct. 5-10, Honolulu, Hawaii.
- 2005 “Sensitivity Analysis of SST along New Jersey coast with ROMS Adjoint model.” ROMS workshop, Oct. 24-26, La Jolla, CA.

CONFERENCE PRESENTATIONS:

- 2018 “Frontal subduction of the Mid-Atlantic Bight shelf water at the onshore edge of a warm-core ring”, *Gordon Research Conference – Ocean Mixing*, Jun 3-8, 2018, Proctor Academy, Andover, New Hampshire. (poster)

- “Morphodynamical interaction of tides, internal tides and sediment transport at the shelf edge”, *Ocean Science Meeting*, Feb 12-16, Portland, Oregon. (talk)
- “Asymmetrical flow response in a shelf valley to along-shelf winds of opposite directions – A lee-wave mechanism”, *Ocean Science Meeting*, Feb 12-16, Portland, Oregon. (poster)
- “New processes of cross-shelf water exchange revealed by OOI Pioneer Array”, OOI FB Town Hall at *Ocean Science Meeting*, Feb 13, Portland, Oregon. (talk)
- 2017 “Subsurface offshore transport of the Mid-Atlantic Bight shelf water induced by a warm-core ring”, *Mid-Atlantic Bight Physical Oceanography and Meteorology Conference*, Sep 28-29, 2017, University of North Carolina Coastal Studies Institute, Wanchese, North Carolina. (talk)
- “Asymmetrical flow response in a shelf valley to along-shelf winds of opposite directions”, *Gordon Research Conference – Coastal Ocean Circulation*, Jun 11-16, 2017, University of New England, Biddeford, Maine. (poster)
- “Internal waves in Andaman Sea – Connecting the open ocean to shelf processes and coral reef biogeochemistry”, *The 10th WESTPAC International Scientific Conference*, Apr 17-20, 2017, Qingdao, China. (talk)
- 2016 “Dispersal of polynya dense water on a sloping shelf”, *ROMS Asia-Pacific Workshop*, Oct 17-20, 2016, University of Tasmania, Hobart, Australia. (talk)
- “Inhomogeneous Generation and Propagation of Internal Waves at a Shelfbreak Canyon”, *INCISE International Submarine Canyon Symposium*, July 25-27, Victoria, BC, Canada. (talk)
- “Direct Intrusion of Gulf Stream Ring Water onto Mid-Atlantic Bight Continental Shelf”, *Ocean Science Meeting*, Feb 21-26, New Orleans, Louisiana. (talk)
- 2015 “Internal-tide Generation and Beam-like Onshore Propagation in the Vicinity of Shelfbreak Canyons” *The 4th Forum for Arctic Modeling and Observational Synthesis (FAMOS) School and Meeting*, Nov 4-6, Hyannis, MA. (poster)
- 2014 “Length-scale of the meanders of the MAB shelfbreak front.” *Mid-Atlantic Bight Physical Oceanography and Meteorology Conference*, Oct, 29-30, Virginia Institute of Marine Science, Virginia. (talk)
- “Dispersal of the dense water formed in a coastal polynya”, *Forum for Arctic Modeling and Observational Synthesis (FAMOS)*, Oct 21-24, Woods Hole, MA. (poster)
- “Modeling and analysis of internal-tide generation and beam-like onshore propagation in the vicinity of shelfbreak canyons.” *Ocean Science Meeting*, Feb 24-28, Honolulu, HI. (poster)
- 2013 “Intrinsic nonlinear and spectral structure of internal tides at a shelfbreak.” *Gordon Research Conference – Coastal Ocean Circulation*, Jun 9-14, University of New England, Biddeford, ME. (poster)
- 2012 “Is biological productivity enhanced at the New England Shelfbreak?” *The Middle Atlantic Bight Physical Oceanography and Meteorology Conference*, Nov 7-8, University of Connecticut, Avery Point, Connecticut. (talk)
- “Mean circulation and biological production at the New England Shelfbreak.” *Ocean Science Meeting*, Feb 20-24, Salt Lake City, UT. (poster)
- 2011 “Climatological mean circulation at the New England shelf break.” *Gordon Research*

- Conference – Coastal Ocean Modeling*, Jun 26-Jul 1, Mount Holyoke College, South Hadley, MA. (poster)
- 2010 “Towards an integrated coastal ocean observation and modeling system.” *Ocean Science Meeting*, Feb 22-26, Portland, Oregon. (poster)
- 2009 “Representer-based observing system in the New York Bight.” *The 8th Workshop on Adjoint Model Applications in Dynamic Meteorology*, May 18-22, Tannersville, Pennsylvania. (talk)
- 2008 “Simulation of age and residence time in the New York Bight.” Dec 15-19, *AGU Fall Meeting*, San Francisco, California. (talk)
- “Modeling of the mean dynamics and freshwater pathways in New York Bight.” *Ocean Science Meeting*, Mar 3-7, Orlando, FL. (poster)
- 2007 “Variational Data Assimilation off New Jersey Coast.” *Gordon Research Conference - Coastal Ocean Modeling*, Jun 17-22, Colby-Sawyer College, New London, NH. (poster)
- 2006 “Adjoint Sensitivity Analysis of SST on New Jersey coast.” *The 7th International Workshop on Adjoint Applications in Dynamics Meteorology*, Oct 8-13, Obergurgl, Tyrol, Austria. Abstract (208), p39. (talk)

WHOI SEMINAR PRESENTATIONS:

- 2019 “Processes of warm-core rings interacting with the surrounding waters”, Jan 29, Ocean Twilight Light Zone project seminar
- “Shelf-break exchange processes revealed by OOI Pioneer Array”, Jan 15, OOI Lunch and Learn seminar
- 2018 “Ring interaction and shelf-break exchange processes revealed by OOI Pioneer Array”, May 30, AOP&E department seminar
- “Coastal physical oceanography and biophysical interaction”, Mar 14, WHOI-MIT Joint Program Open House presentation
- “Asymmetrical response of circulation in a shallow shelf valley to along-shelf winds in opposite directions”, Feb 27, Physical Oceanography Department Seminar.
- 2017 “Asymmetry can also be beautiful – when it occurs in a submarine canyon”, Jan 27, Coastal Ocean and Fluid Dynamics Lab Seminar.
- 2016 “Subsurface water exchange at the MAB shelfbreak revealed by the OOI Pioneer Array”, Sep 16, Coastal Ocean and Fluid Dynamics Lab Seminar.
- “Coastal Physical Oceanography and its various influences”, Mar 15, WHOI-MIT Joint Program Open House presentation
- “Frontal instability and warm-core ring water intrusion at the Mid-Atlantic Bight shelfbreak”, May 18, AOP&E department seminar
- “Pinocchio’s Nose Intrusion of the Gulf Stream ring water at the Mid-Atlantic Bight shelfbreak”, July 6, WHOI Summer Lecture Series
- 2014 “The generation of internal tides at a shelf-break canyon.” Nov 5, AOP&E Department Seminar.
- 2013 “Dispersal of the dense water formed in an idealized coastal polynya.” Dec 6, Coastal Ocean and Fluid Dynamics Lab Seminar.

- “Distributed source physics of internal tide horizontal beam patterns near shelfbreak canyons.” Sep 4, Applied Ocean Physics & Engineering Department Seminar.
- 2012 “Intrinsic nonlinearity and spectral structure of internal tides at a shelf break.” Sep 26, Applied Ocean Physics & Engineering Department Seminar.
- 2011 “Mean biological production at the New England Shelfbreak.” Dec 16, Coastal Ocean and Fluid Dynamics Lab Seminar.
- “Climatological mean circulation at the New England Shelfbreak.” Nov 16, Applied Ocean Physics & Engineering Department Seminar.
- 2010 “Coastal ocean modeling for studying circulation and transport across the continental shelf in the Mid-Atlantic Bight.” Jun 9, Applied Ocean Physics & Engineering Department Seminar.
- “Towards an integrated coastal ocean observation and modeling system.” Jan 20, Applied Ocean Physics & Engineering Department Seminar.