

CURRICULUM VITAE – BENJAMIN HAMLINGTON

NAME Dr. Benjamin D. Hamlington
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EMPLOYMENT

2018-Pres. Research Scientist
Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA.
2014-2018 Assistant Professor
Ocean, Earth, and Atmospheric Sciences Department, Old Dominion University
2013-2014 Research Scientist II
Cooperative Institute for Research in Environmental Sciences, Boulder, CO
2011-2013 Research Associate
Colorado Center for Astrodynamics Research, University of Colorado at Boulder

EDUCATION

2007-2011 Doctor of Philosophy in Aerospace Engineering Sciences
University of Colorado at Boulder
2006-2007 Master of Science in Mechanical Engineering
Washington University in St. Louis
2002-2007 Bachelor of Science in Aerospace Engineering
Washington University in St. Louis

PUBLICATIONS

1. Burgos, A.G., **B.D. Hamlington**, P.R. Thompson, R.D. Ray, 2018: Future Nuisance Flooding in Norfolk, VA, from Astronomical Tides and Annual to Decadal Internal Climate Variability, *Geophys. Res. Lett.*, 45(22), 12,432-12,439.
2. Cheon, S.H., **B.D. Hamlington**, K.D. Suh, 2018: Reconstruction of sea level around Korean Peninsula using cyclostationary empirical orthogonal functions, *Ocean Science*, 14(15), 959-970.
3. **Hamlington, B.D.**, A. Burgos, P.R. Thompson, F.W. Landerer, C.G. Piecuch, S. Adhikari, L. Caron, J.T. Reager, E.R. Ivins, 2018: Observation-Driven Estimation of Spatial Variability of 20th Century Sea Level Rise, *Jour. Geophys. Res. Oceans*, 123 (3), 2129-2140.
4. Nerem, R.S., B.D. Beckley, J.T. Fasullo, **B.D. Hamlington**, D. Masters, 2018: Climate-change-driven accelerated sea-level rise detected in the altimeter era, *PNAS*, 201717312.
5. Carson, M., A. Koehl, D. Stammer, B. Meyssignac, J.A. Church, J. Schroeter, M. Wenzel, **B.D. Hamlington**, 2017: Regional sea level variability and trends, 1960-2007 – A comparison of sea level reconstructions and ocean syntheses, *Jour. Geophys. Res. Oceans*, 122(11), 9068-9091.
6. Bekaert, D., **B.D. Hamlington**, B. Buzzanga, C.E. Jones, 2017: Spaceborne Synthetic Aperture Radar Survey of Subsidence in Hampton Roads Virginia, *Scientific Reports*, 7(1), 14752.
7. Nidheesh, A.G., M. Lengaigne, J. Vialard, T. Izumo, A. Unnikrishnan, B. Meyssignac, **B.D. Hamlington**, C. Montegut, 2017: Robustness of observationally-derived decadal sea-level variability in the Indo-Pacific region, *Geophys. Res. Letter*, 44(14), 7391-7400.
8. **Hamlington, B.D.** J.T. Reager, M.H. Lo, K. Karnauskas, R.R. Leben, 2017: Separating global water cycle variability from sea level rise, *Scientific Reports*, 7.
9. **Hamlington, B. D.**, S.H. Cheon, R.R. Leben, 2017: Multivariate Sea Level Reconstruction 1900 to 2014, *Nature Scientific Data*, in press.
10. Han, W., G.A. Meehl, D. Stammer, A. Hu, **B.D. Hamlington**, J. Kenigson, H. Palanisamy, and P.R. Thompson. 2017: Spatial Patterns of Sea Level Variability Associated with Natural Internal Climate Modes. *Surveys in Geophysics*, 38(1), 217-250.
11. Mason, S., P.E. Hamlington, B.D. Hamlington, W. Jolly, C. Hoffman, 2017: Effects of Climate Oscillations on Wildland Fire Potential in the Continental United States, *Geophys. Res. Lett.*, 44, 7002-7010.
12. Thompson, P. R., **B. D. Hamlington**, F. W. Landerer, and S. Adhikari 2016: Are long tide gauge records in the wrong place to measure global mean sea level rise?, *Geophys. Res. Lett.*, 43, 10,403–10,411,

13. **Hamlington, B. D.**, P.R. Thompson, W. C. Hammond, G. Blewitt, and R. D. Ray, 2016: Assessing the impact of vertical land motion on twentieth century global mean sea level estimates, *J. Geophys. Res. Oceans*, **121**, 4980–4993.
14. **Hamlington, B. D.**, S. H. Cheon, P. R. Thompson, M. A. Merrifield, R. S. Nerem, R. R. Leben, and K.-Y. Kim, 2016: An ongoing shift in Pacific Ocean sea level, *J. Geophys. Res. Oceans*, **121**, 5084–5097.
15. Fasullo, J. T., R. S. Nerem, and **B.D. Hamlington**. 2016: Is the Detection of Accelerated Sea Level Rise Imminent? *Scientific Reports* 6 (August): 31245.
16. Kim, K.-Y., **B. D. Hamlington**, H. Na, and J. Kim. 2016: Mechanism of Seasonal Arctic Sea Ice Evolution and Arctic Amplification. *The Cryosphere* 10 (5). Katlenburg-Lindau, Germany: Copernicus GmbH: 2191–2202.
17. Cheng, Y., T. Ezer, and **B.D. Hamlington**. 2016: Sea Level Acceleration in the China Seas. *WATER* 8 (7). Multidisciplinary Digital Publishing Institute: 293.
18. Cheng, Y., **B.D. Hamlington**, H.P. Plag, and Q. Xu. 2016: Influence of ENSO on the Variation of Annual Sea Level Cycle in the South China Sea. *Ocean Engineering* 126 (November): 343–52.
19. Merrifield, M.A., Leuliette, E., Thompson, P., Chambers, D., **Hamlington, B.D.**, Jevrejeva, S., Marra, J.J., Menéndez, M., Mitchum, G.T., Nerem, R.S., Sweet, W.A; Swart, W. 2016: Sea level variability and change [in “State of the Climate in 2015”]. *Bulletin of the American Meteorological Society*, 97 (8 (Supplement)). S80-S82.
20. Cheng, Y., H.P. Plag, **B. D. Hamlington**, Qing X., and Y. He. 2015: Regional Sea Level Variability in the Bohai Sea, Yellow Sea, and East China Sea.” *Continental Shelf Research* 111, Part A (December): 95–107.
21. **Hamlington, B. D.**, Leben, R.R., Kim, K.-Y., Nerem, R.S., Atkinson, L.P., Thompson, P.R. 2015: The effect of the El Niño-Southern Oscillation on U.S. regional and coastal sea level, *J. Geophys. Res. Oceans*, **120**, 3970–3986.
22. **Hamlington, B. D.**, and P. R. Thompson, 2015: Considerations for estimating the 20th century trend in global mean sea level. *Geophys. Res. Lett.*, **42**, 4102–4109.
23. **Hamlington, B. D.**, R. F. Milliff, H. van Loon, and K.-Y. Kim, 2015: A Southern Hemisphere sea level pressure-based precursor for ENSO warm and cold events, *J. Geophys. Res. Atmos.*, **120**, 2280–2292,
24. **Hamlington, B. D.**, P. E. Hamlington, S. G. Collins, S. R. Alexander, and K.-Y. Kim, 2015: Effects of climate oscillations on wind resource variability in the United States, *Geophys. Res. Lett.*, **42**, 145–152.
25. Kim, K.-Y., B.D. Hamlington, and H. Na. 2015: Theoretical Foundation of Cyclostationary EOF Analysis for Geophysical and Climatic Variables: Concepts and Examples. *Earth-Science Reviews* 150 (November): 201–18.
26. Strassburg, M.W., **Hamlington, B.D.**, Leben, R.R., Kim, K.-Y., 2014: Sea Level Trends in the South East Asian Seas, *Clim. Past*, 10(5), 4129-4148.
27. **Hamlington, B.D.**, Strassburg, M.W., Leben, R.R., Han, W., Nerem, R.S., Kim, K.-Y., 2014: Uncovering an anthropogenic sea-level rise signal in the Pacific Ocean, *Nat. Clim. Change*, **4**, 782-785.
28. Strassburg, M.W., **Hamlington B.D.**, Leben, R.R., Kim, K.-Y., 2014: A comparative study of sea level reconstruction techniques using 20 years of satellite altimetry data, *Jour. of Geophys. Res.*, **119**, 7, 4068-4082.
29. **Hamlington, B.D.**, Leben, R.R., Strassburg, M.W., Kim, K.-Y., 2014: Cyclostationary Empirical Orthogonal Function Sea Level Reconstruction, *Geosci. Data Jour.*, 1:13-19.
30. Merrifield, M.A., Thompson, P., Leuliette, E., Nerem, R.S., **Hamlington, B.D.**, Chambers, D.P., Mitchum, G.T., McInnes, K., Marra, J.J., Menéndez, M., Sweet, W. 2014: [Global oceans] Sea level variability and change [in “State of the Climate in 2013”]. *Bull. Amer. Meteor. Soc.*, 95 (7), S71-S73.
31. **Hamlington, B.D.**, Leben, R.R., Strassburg, M.W., Nerem, R.S., Kim, K.-Y., 2013: Contribution of the Pacific Decadal Oscillation to Global Mean Sea Level Trends, *Geophys. Res. Lett.*, **40**, 50950.
32. Han, W., Meehl, G.A., Hu, A., Alexander, M.A., Yamagata, T., Yuan, D., Ishii, M., Pegion, P., Zheng, J., **Hamlington, B.D.**, Quan, X-W., Leben, R.R., 2013: Intensification of Decadal and

- Multi-Decadal Sea Level Variability in the Western Tropical Pacific During Recent Decades, *Clim. Dyn.*, DOI: 10.1007/s00382-013-1951-1.
33. **Hamlington, B.D.**, Leben, R.R., Wright, L.A., Kim, K.-Y., 2012: Regional Sea Level Reconstruction in the Pacific Ocean, *Marine Geodesy*, **35**, 98-117.
 34. **Hamlington, B.D.**, Leben, R.R., Kim, K.-Y., 2012: Improving Sea Level Reconstructions Using Non-Sea Level Measurements, *Jour. Geophys. Res*, **117**, C10025.
 35. **Hamlington, B.D.**, Leben, R.R., Godin, O.A., Gica, E., Titov, V.V., Haines, B.J., Desai, S.D., 2012: Could Satellite Altimetry Have Improved Early Detection and Warning of the 2011 Tohoku Tsunami?, *Geophys. Res. Lett.*, **39**, L15605.
 36. Leben, R.R., **Hamlington, B.D.**, Haines, B.J., 2012: SEASAT and GEOSAT revisited: using sea level measurements to improve satellite altimeter orbits, *Jour. of Astro. Sci.*, **58:3**.
 37. **Hamlington B.D.**, Leben R.R., Nerem R.S., Han, W., Kim K.-Y., 2011: Reconstructing sea level using cyclostationary empirical orthogonal functions, *Jour. Geophys. Res*, **116**, C12015.
 38. **Hamlington B.D.**, Leben, R.R., Godin, O.A., Legeais, J.F., Gica, E., Titov, V.V., 2011: Detection of 2010 Chilean tsunami using satellite altimetry, *Nat. Hazards Earth Syst. Sci.*, **11**, 2391-2406.
 39. **Hamlington B.D.**, Leben R.R., Nerem R.S., Kim K.-Y., 2011: The effect of signal-to-noise ratio on the study of sea level trends, *J. Climate*, **24**, 1396-1408.
 40. Godin O.A., Irisov V.G., Leben R.R., **Hamlington B.D.**, Wick G.A. 2009: Variations in sea surface roughness induced by the 2004 Sumatra-Andaman tsunami, *Nat. Hazards Earth Syst. Sci.*, **9**, 1135-1147.
 41. Chen X.M., **Hamlington B.D.**, Shen A.Q. 2008: Isotropic-to-nematic phase transition in a liquid-crystal droplet, *Langmuir*, **24:2**, 541-546.
 42. **Hamlington B.D.**, Steinhaus B, Feng J, Link D, Shelley M and Shen A Q. 2007: Liquid crystal droplet production in a microfluidic device, *Liquid Crystals*, **34:7**, 861-870.
 43. Shen A Q, **Hamlington B.D.**, Pickard W, Knoblauch M & Peters W. 2006: Forisome based biomimetic smart materials, *Smart Structures and Systems, An Int. Journal*, **2:3**, 225-236.

HONORS

- NASA Sea Level Change Science Team Lead, 2017-Present**
- NASA New Investigator Program Award, 2016**
- Early Career Distinguished Research Award, 2016, Old Dominion University**
- Aerospace Engineering Sciences Outstanding Dissertation, 2011**
- University of Colorado Aerospace Engineering Sciences Department Fellowship, 2007**
- Alexander Langsdorf Merit Scholarship, Washington University in St. Louis, 2002-2007**

BOOK CHAPTERS

- Hamlington, B.D.**, Godin, O.A., Irisov, V.G., Leben, R.R., 2010: Detection of tsunamis from changes in ocean surface roughness, "Tsunami, Research and Technologies", INTECH, Austria, 2011.

CONFERENCE PROCEEDINGS

- Hamlington, B.D.**, Leben, R.R., Kim, K.-Y., 2013: Contribution of Pacific Decadal Oscillation to Regional Sea Level, Regional Climate Modeling Conference II, Busan, South Korea.
- Hamlington B.D.**, Leben R.R., Kim K.-Y. 2012: Improving Sea Level Reconstructions Using Non-Sea Level Measurements, Proceedings of Oceans 2012 MTS/IEEE..
- Hamlington B.D.**, Leben R.R., Kim K.-Y. 2012: An Integrated Approach to Reconstructing Sea Level, Proceedings of 20 Years of Progress in Radar Altimetry.
- Hamlington B.D.**, Leben R.R., 2012: Sea Level Education for Underrepresented Students Through Collaboration with CABPES, Proceedings of 20 Years of Progress in Radar Altimetry.
- Hamlington B.D.**, Leben R.R., Kim K.-Y. 2012: Advances in Climate Monitoring Using a Consistent Sea Level Record, Proceedings of 20 Years of Progress in Radar Altimetry.
- Hamlington, B.D.**, Godin, O.A., Irisov, V.G., Leben, R.R., 2010: On the feasibility of tsunami detection using satellite-based sea surface roughness measurements, Proceedings of 2010 IEEE

PRESENTATIONS

KEYNOTE:

Hamlington, B.D., Understanding Sea Level Rise with Remote Sensing, Virginia Space Grant Annual Reception, Apr. 2018.

Hamlington, B.D., What do we really know about 20th Century GMSL? NASA Ocean Surface Topography Team Meeting, Reston, VA, Oct. 2015.

INVITED:

Hamlington, B.D., Mapping the Causes and Impacts of Decadal Sea Level Variability, AGU Fall Meeting, San Francisco, USA, Dec. 2016.

Hamlington, B.D., Vertical Land Motion and Sea Level Rise, NASA Sea Level Science Team Meeting, Lake Arrowhead, CA, Oct. 2015.

Hamlington, B.D., Multivariate Sea Level Reconstruction 1900-2014, NASA Ocean Surface Topography Team Meeting, Reston, VA, Oct. 2015.

Hamlington, B.D., Sea Level Science and Projections, ACCO Climate Resiliency Workshop, Washington DC, June, 2015.

Hamlington, B.D., Towards Regional Sea Level Projections: Assessing the impact of internal variability on sea level, University of South Carolina Seminar, Columbia, SC, February, 2015.

Hamlington, B.D., Towards Regional Sea Level Projections: Assessing the impact of internal variability on sea level, University of South Florida Seminar, St. Petersburg, FL, March, 2015.

Hamlington, B.D., Towards Regional Sea Level Projections: Assessing the impact of internal variability on sea level, Old Dominion University, OEAS Seminar, Norfolk, VA, April, 2015.

Hamlington, B.D., Leben, R.R., Kim, K.-Y., CSEOF-based Sea Level Height Reconstruction, International Conference on Coastal Engineering, Seoul, South Korea, June, 2014.

Hamlington, B.D., Cyclostationary Empirical Orthogonal Function Analysis: Theory and Applications, Boulder Fluids Seminar, Boulder, USA, February, 2014.

Hamlington, B.D., Leben, R.R., Strassburg, M.W., Nerem, R.S. Kim, K.-Y., Pacific Decadal Oscillation Influence on Global and Regional Sea Level, AGU Fall Meeting, San Francisco, USA, Dec., 2013.

Hamlington, B.D., Leben, R.R., Kim, K.-Y., Contribution of Pacific Decadal Oscillation to Regional Sea Level, Regional Climate Modeling Conference II, Busan, South Korea, Sept., 2013.

Hamlington, B.D.: Tsunami Detection Using Satellite Altimetry, International Workshop on Coastal Altimetry, Bogor, Indonesia, Nov. 2012.

Hamlington, B.D., Leben, R.R., Kim, K.-Y.: Improving Sea Level Reconstructions Using non-sea Level Measurements, ATOC Department Seminar, University of Colorado, Oct. 2012.

Hamlington, B.D., Leben, R.R., Kim, K.-Y.: Reconstructing Sea Level Using Non-Sea Level Measurements, Meteorology Department Seminar, Seoul National University, Aug. 2012.

Hamlington, B.D., Leben, R.R., Kim, K.-Y.: Reconstructing Sea Level Using CSEOFs, Meteorology Department Seminar, Seoul National University, Sep. 2011.

Hamlington, B.D.: Reconstructing Sea Level Using CSEOFs, ATOC Department Seminar, University of Colorado, Sep. 2011.

Hamlington B.D., Leben, R.R., Nerem, R.S., Kim K.-Y.: Using CSEOF analysis to improve estimates of the spatial variation of sea level trends, Meteorology Department Seminar, Seoul National University, Sep. 2010.

Hamlington B.D., Leben, R.R., Nerem R.S., Kim K.-Y.: Reconstructing sea level using satellite altimetry and tide gauges, OCCAPA Sea Level Workshop, Seoul National University, Sep. 2010.

Hamlington B.D., Leben R.R., Godin O.A., Irisov V.G.: Detection of tsunamis from changes in ocean surface roughness, AGU Ocean Sciences Meeting, Portland, OR, USA, Feb. 2010.

Hamlington B.D., Leben R.R., Nerem R.S., Kim K.-Y.: New method for reconstructing sea level from tide gauges using satellite altimetry, IEEE International Geoscience and Remote Sensing

Symposium, Honolulu, HI, USA, July 2010.

Hamlington B.D., Leben R.R., Godin O.A., Irisov V.G.: On the feasibility of tsunami detection using satellite-based sea surface roughness measurements, IEEE International Geoscience and Remote Sensing Symposium, Honolulu, HI, USA, July 2010.

AS PRESENTER:

Hamlington, B.D., Understanding and Communicating the Timescales of Sea Level Change, AAAS Meeting, Washington DC, USA, Feb. 2016.

Hamlington, B.D., Leben, R.R., Strassburg, M.W., Han, W., Nerem, R.S. Kim, K.-Y. Uncovering an Anthropogenic Sea Level Rise Signal in the Pacific Ocean, AGU Fall Meeting, San Francisco, USA, Dec. 2014.

Hamlington, B.D., Leben, R.R., Near Real-time and Historical Monitoring of the Earth's Climate System Using Satellite Altimetry and Reconstructed Sea Level, Ocean Surface Topography Science Team, Konstanz, Germany, Oct. 2014.

Hamlington, B.D., Leben, R.R., Strassburg, M.W., Han, W., Nerem, R.S. Kim, K.-Y. Uncovering an Anthropogenic Sea Level Rise Signal in the Pacific Ocean, Ocean Surface Topography Science Team, Konstanz, Germany, Oct. 2014.

Hamlington, B.D., Sea Level and Climate Change Outreach for High School Students, Ocean Surface Topography Science Team Meeting, Konstanz, Germany, Oct. 2014.

Hamlington, B.D., Leben, R.R., Strassburg, M.W., Nerem, R.S. Kim, K.-Y., Climate Variability Contributions to Global and Regional Sea Level, Ocean Sciences Meeting, Honolulu, USA, Feb., 2014.

Hamlington, B.D., Leben, R.R., Strassburg, M.W., Nerem, R.S. Kim, K.-Y., Pacific Decadal Oscillation Contribution to Global and Regional Sea Level, Ocean Surface Topography Science Team Meeting, Boulder, USA, Oct. 2013.

Hamlington, B.D.: Early Warning and Detection of Tsunami Using Remote Sensing, ATOC Department Seminar, University of Colorado, Oct. 2013.

Hamlington, B.D., Leben, R.R., Godin, O.A., Gica, E., Titov, V.V., Haines, B.J., Desai, S.D., Could Satellite Altimetry Have Improved Early Detection and Warning of the 2011 Tohoku Tsunami?, RESELECASEA Project, Bogor, Indonesia, Nov. 2012.

Hamlington B.D., Leben R.R., Kim K.-Y: Improving Sea Level Reconstructions Using Non-Sea Level Measurements, Oceans 2012 MTS/IEEE, Virginia Beach, USA, Oct. 2012.

Hamlington, B.D., Leben, R.R., Godin, O.A., Gica, E., Titov, V.V., Haines, B.J., Desai, S.D., Could Satellite Altimetry Have Improved Early Detection and Warning of the 2011 Tohoku Tsunami?, Ocean Surface Topography Science Team Meeting, Venice, Italy, Sep. 2012.

Hamlington, B.D., Leben, R.R.: Sea level education through collaboration with CABPES, 20 Years of Progress in Radar Altimetry, Ocean Surface Topography Science Team Meeting, Venice, Italy, Sep. 2012.

Hamlington, B.D., Leben, R.R., Kim, K.-Y.: Improving Sea Level Reconstructions Using non-sea Level Measurements, 20 Years of Progress in Radar Altimetry, Venice, Italy, Sep. 2012.

Hamlington, B.D., Leben, R.R., Godin, O.A., Gica, E., Titov, V.V., Haines, B.J., Desai, S.D.: Could Satellite Altimetry Have Improved Early Detection and Warning of the 2011 Tohoku Tsunami?, Ocean surface topography science team meeting, Venice, Italy, Sep. 2012.

Hamlington, B.D., Leben, R.R.: Sea level education through collaboration with CABPES, 20 Years of Progress in Radar Altimetry, Venice, Italy, 2012.

Hamlington, B.D., Leben, R.R., Kim, K.-Y.: Improving Sea Level Reconstructions Using non-sea Level Measurements, AGU Ocean Sciences Meeting, Salt Lake City, UT, USA, Feb. 2012.

Hamlington B.D., Leben, R.R., Nerem R.S., Phillips T., Kim K.-Y.: Reconstructing global mean sea level from tide gauges using satellite altimetry, Ocean surface topography science team meeting, Lisbon Portugal, Oct. 2010.

Hamlington B.D., Feng J, Link D, Shelley M, Shen A. Liquid crystal droplet production in a microfluidic device. American Physical Society Conference, Division of Fluid Dynamics. Tampa,

November 2006.

Hamlington B.D., Shen A, Feng, J, Link D. Liquid crystal droplet formation inside a microdevice. American Physical Society Conference, Division of Fluid Dynamics. Chicago, November 2005.

Hamlington B.D., Shen A, Pickard W, Peters W. Smart plant protein inside microdevices. American Physical Society Conference, Division of Fluid Dynamics. Seattle, November 2004.

TEACHING EXPERIENCE

OEAS 108N, Introduction to Global Climate Change: Introductory course for non-science majors, teaching the science basics of climate change. Includes lab.

OEAS 220T, Introduction to Meteorology: Introductory course for non-science majors, covering the basics of meteorology, with specific focus on the role technology plays. Includes lab.

OEAS 895, Introduction to Ocean Remote Sensing: Graduate level course on the use of satellite remote sensing in studying the ocean.

OEAS 704: Time Series Analysis: Graduate level course on the basic techniques of time series analysis. These include temporal spatial and frequency/wave number domain techniques.

OEAS 406/506, Introduction to MATLAB: Introductory course on MATLAB covering basics of using the program, and introducing simple data analysis concepts.

OEAS 695, Multidisciplinary Approaches to Regional and Global Sea Level Change: Graduate level course, covering wide range of topics in sea level science.

Cyclostationary Empirical Orthogonal Short Course, 2014, Seoul, South Korea: Provided workshop as part of a three-person team to help scientists and engineers understand the application of CSEOF analysis.

Colorado Association for Black Professional Engineers and Scientists, 2011-present: Sea Level Course: Provide weekly two-hour classes on climate and sea level science to underrepresented and underprivileged high school students in Denver, Colorado.

University of Colorado at Boulder, 2009-2010: ASEN5307 Engineering Data Analysis: Served as course assistant, created homework and exam questions, provided help for students by answering course content questions, gave lecture in professor's absence.

Washington University in St. Louis, 2006-2007: Fluid Mechanics Laboratory: Conducted weekly laboratory sessions and provided help sessions to students.

Washington University in St. Louis, 2006-2007: Thermodynamics: Served as head teaching assistant and grader, provided weekly help sessions.

Washington University in St. Louis, 2005-2007: Engineering Mathematics : Served as head teaching assistant, provided weekly help sessions and assisted in writing homework questions.

Washington University in St. Louis, 2004-2007: Probability and Statistics for Engineering: Served as teaching assistant, held office hours and provided help to students on course content questions. Graded homework problems and exams. Lectured in professor's absence.

STUDENT RESEARCH ADVISOR

Graduate Students:

Se-Hyeon Cheon, 2014-Present

Alessandra Burgos, 2015-Present

Lauren Sommers, 2014-Present

Praveen Kumar, 2014-Present

Mathew Strassburg, 2011-2014

PROFESSIONAL ACTIVITIES

Session organizer for 2016 AAAS Meeting

Session Chair for 2014, 2015, 2016, 2017 Fall AGU Meeting

Session Chair for 2014 Ocean Sciences Conference

Member of NASA Sea Level Rise Science Team, 2014-present

Member of NASA Ocean Surface Topography Science Team, 2011-present

NASA Physical Oceanography Review Panel

Reviewer for Science, Nature, Nature Climate Change, Nature Energy, Nature Geoscience,
Geophysical Review Letters, Journal of Climate, Journal of Geophysical Research, Marine Geodesy,
Natural Hazards and Earth System Science