RENELLYS C. PEREZ

NOAA/AOML/Physical Oceanography Division
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EDUCATION

2006 Oregon State University, College of Oceanic and Atmospheric Sciences
Ph.D. in Oceanography
Dissertation: Numerical and assimilative studies of the equatorial Pacific cold tongue
Advisor: Prof. Robert N. Miller

1999 University of Miami, Rosenstiel School of Marine and Atmospheric Science
M.S. in Applied Marine Physics
Thesis: Model skill assessment in the Louisiana-Texas (LATEX) shelfbreak zone
Advisor: Prof. Christopher N. K. Mooers

1995 University of Miami
B.S. Cum Laude in Applied Mathematics, Pure Physics

PROFESSIONAL EXPERIENCE

2017-2021 NOAA/AOML/Physical Oceanography Division
Oceanographer

2021 NOAA/AOML/Chemical Oceanography Division
Temporary Acting Deputy Director, Supervisory Research Oceanographer

2011-2017 University of Miami, Cooperative Institute for Marine and Atmospheric Studies
NOAA/AOML/Physical Oceanography Division
CIMAS Associate Scientist

2008-2011 University of Miami, Cooperative Institute for Marine and Atmospheric Studies
NOAA/AOML/Physical Oceanography Division
CIMAS Assistant Scientist

2005-2008 National Research Council
NOAA/PMEL/Ocean Climate Research Division
Postdoctoral Fellow

2005, 2008 University of Washington, Joint Institute for the Study of the Atmosphere and Ocean
Postdoctoral Fellow

1998-2005 Oregon State University, College of Oceanic and Atmospheric Sciences
Graduate Research/Teaching Assistant

1995-1998 University of Miami, Rosenstiel School of Marine and Atmospheric Science
Graduate Research Assistant

EXTERNAL FUNDING

2021 Innovative analysis of deep and abyssal temperatures from bottom-moored instruments, NOAA, 09/01/21-08/31/24, $440,292 (lead-PI).

2020 An optimized hybrid seasonal forecast system for U. S. regional precipitation in late-summer to mid-fall based on inter-basin SST and convection parameters, NOAA, 09/01/20-08/31/21, $204,400 (unfunded co-PI)

2019 Upper-ocean salinity variability in the northwestern tropical Atlantic and its interactions with SST and winds, NOAA, 08/01/19-07/31/22, $551,974 (collaborator)

2018 Combining coastal altimetry and in situ observations to improve Meridional Overturning Circulation estimates in the South Atlantic, NASA, $161,878, 01/01/18-12/31/20 (co-PI)

2016 Collaborative Research: Extratropical triggering of ENSO events through the trade-Wind charging mechanism, NSF-CLD, 09/15/16-09/14/19, $343,452 (lead-PI)

2016 South Atlantic-North Atlantic Meridional Overturning Circulation (MOC) linkages: Analysis of the upper and lower limbs with in situ moored instruments, NOAA, 07/01/16-06/30/19, $353,031 (co-PI)

2014 Variability of the South Atlantic Subtropical Gyre, NASA, 05/01/14-04/30/17, $346,494 (lead-PI)

2013 South Atlantic Meridional Overturning Circulation: Pathways and Modes of Variability, NOAA, 09/01/13-8/31/16, $222,723 (lead-PI)

2010 Collaborative Research: Global Impact of Eddies on Inertial Oscillations of the Mixed Layer. NSF-OCE-1031278, 10/01/10-09/30/14, $66,313 (lead-PI)

PUBLICATIONS (PEER-REVIEWED)

(1) Campos, E. J. D., M. C. van Caspel, W. Zenk, E. G. Morozov, D. I. Frey, A. R. Piola, C. S. Meinen, O. T. Sato, **R. C. Perez**, and S. Dong, 2021: Warming trend in the abyssal flow through the Vema Channel in the South Atlantic. *Geophys. Res. Lett.*, accepted.

(2) Chakravorty, S., **R. C. Perez**, C. Gnanaseelan, and B. T. Anderson, 2021: Revisiting the recharge and discharge processes for different flavors of El Niño. *Journal of Geophysical Research–Oceans*, re-submitted.

(3) Volkov, D. L., S. Dong, M. Lankhorst, M. Kersalé, A. Sanchez-Franks, C. Schmid, J. Herrford, **R. C. Perez**, B. I. Moat, P. Brandt, C. S. Meinen, M. O. Baringer, E. Frajka-Williams, and D. Smeed, 2021: Meridional overturning circulation and heat transport in the Atlantic Ocean [in "State of the Climate in 2020"]. *Bull. Amer. Meteor. Soc*., 102(8): S176-S179.

(4) Chakravorty, S., **R. C. Perez**, B.T. Anderson, S. M. Larson, and B. S. Giese, 2021: Ocean dynamics are key to extratropical forcing of El Niño. *J. Clim.,* doi:10.1175/JCLI-D-20-0933.1.

(5) Chidichimo, M. P., A. R. Piola, C. S. Meinen, **R. C. Perez**, E. J. D. Campos, S. Dong, R. Lumpkin, and S. L. Garzoli, 2021: Brazil Current volume transport variability during 2009-2015 from a long-term moored array at 34.5°S. *J. Geophys. Res*., doi:10.1029/2020JC017146.

(6) Kersalé, M., C. S. Meinen, **R. C. Perez**, A. R. Pola, S. Speich, E. J. D. Campos, S. L. Garzoli, I. Ansorge, D. L. Volkov, M. Le Hénaff, S. Dong, T. Lamont, O. T. Sato, M. van den Berg, 2021: Multi-year estimates of Daily Heat Transport by the Atlantic Meridional Overturning Circulation at 34.5°S. *J. Geophys. Res*., doi:10.1029/2020JC016947.

(7) Chakravorty, S., **R. C. Perez**, B. T. Anderson, B. S. Giese, S. M. Larson, and V. Pivotti, 2020: Testing the trade wind charging mechanism and its influence on ENSO variability. *J. Clim*., 33, 7391–7411, doi:10.1175/JCLI-D-19-0727.1.

(8) Christophersen, J. A., G. Foltz, and **R. C. Perez**, 2020: Surface expressions of atmospheric thermal tides in the tropical Atlantic and their impact on open-ocean precipitation. *J. Geophys. Res. Atmos.,* 125*,* doi:10.1029/2019JD031997.

(9) Foltz, G. R., R. Hummels, M. Dengler, **R. C. Perez**, and M. Araujo, 2020: Vertical turbulent cooling of the mixed layer in the Atlantic ITCZ and trade wind regions. *Journal of Geophysical Research Oceans*, 125, doi:10.1029/2019JC015529.

(10) Kersalé, M., C. S. Meinen, **R. C. Perez,** M. Le Hénaff, D. Valla, T. Lamont, O. T. Sato, S. Dong, T. Terre, M. van Caspel, M. P. Chidichimo, M. van den Berg, S. Speich, A. R. Piola, E. J. D. Campos, I. Ansorge, D. L. Volkov, R. Lumpkin, S. Garzoli, 2020: Highly variable upper and abyssal overturning cells in the South Atlantic, *Science Advances*, 6, 32, eaba7573, doi:10.1126/sciadv.aba7573.

(11) Meinen, C. S., **R. C. Perez**, S. Dong, A. R. Piola, and E. Campos, 2020: Observed ocean bottom temperature variability at four sites in the Argentine Basin: Evidence of decadal deep/abyssal warming amidst hourly to interannual variability during 2009-2019. *Geophys. Res. Lett.*, 47, doi:10.1029/2020GL089093.

(12) Volkov, D.L., C.S. Meinen, C. Schmid, B. Moat, M. Lankhorst, S. Dong, F. Li, W. Johns, S. Lozier, **R. Perez**, G. Goni, M. Kersale, E. Frajka-Williams, M. Baringer, D. Smeed, D. Rayner, A. Sanchez-Franks, and U. Send, 2020: Atlantic meridional overturning circulation and associated heat transport [in "State of the Climate in 2019"]. Bull. Amer. Meteor. Soc., 101 (8), S163–S169, doi:10.1175/BAMS-D-20-0105.1.

(13) Bourlès, B., M. Araujo, M. J. McPhaden, P. Brandt, G. R. Foltz, R. Lumpkin, H. Giordani, F. Hernandez, N. Lefevre, P. Nobre, E. Campos, R. Saravanan, J. Trotte-Duha, M. Dengler, J. Hahn, R. Hummels, J. F. Lubbecke, M. Rouault, L. Cotrim, A. Sutton, M. Jochum, and **R. C. Perez**, 2019: PIRATA: A sustained observing system for tropical Atlantic climate research and forecasting. *Earth and Space Sciences*, 6, 577-616, doi:10.1029/2018EA000428.

(14) Foltz, G. R., … **R. C. Perez**, …, 2019: The tropical Atlantic observing system. *Frontiers in Marine Science*, 6, 206, doi:10.3389/fmars.2019.00206.

(15) Frajka-Williams, E., …, **R. C. Perez**, …, 2019: Atlantic meridional overturning circulation: Observed transport and variability. *Frontiers in Marine Science*, 6, 260, doi: 10.3389/fmars.2019.00260.

(16) Inoue, R., R.-C. Lien, J. N. Moum, **R. C. Perez**, and M. C. Gregg, 2019: Variations of equatorial shear, stratification, and turbulence within a tropical instability wave cycle. *J. Geophys. Res.,* 124, 1858-1875, doi:10.1029/2018JC014480.

(17) Kersalé, M., **R. C. Perez**, S. Speich, C. S. Meinen, T. Lamont, M. Le Hénaff, M. A. van den Berg, S. Majumder, I. J. Ansorge, S. Dong, C. Schmid, T. Terre, and S. L. Garzoli, 2019: Shallow and Deep Eastern Boundary Currents in the South Atlantic at 34.5°S: Mean structure and variability. *J. Geophys. Res*., 124, 1634-1659, doi:10.1029/2018JC014554.

(18) **Perez, R. C.**, G. R. Foltz, R. Lumpkin, C. Schmid, 2019: Direct Measurements of Upper Ocean Horizontal Velocity and Vertical Shear in the Tropical North Atlantic at 4°N, 23°W. *J. Geophys. Res.,* 124, 4133-4151*,* doi:10.1029/2019JC015064.

(19) Meinen, C. S., S. Speich, A. R. Piola, I. Ansorge, E. Campos, M. Kersalé, T. Terre, M. P. Chidichimo, T. Lamont, O. T. Sato, **R. C. Perez**, D. Valla, M. van den Berg, M. Le Hénaff, S. Dong, and S. L. Garzoli, 2018: Meridional Overturning Circulation transport variability at 34.5°S during 2009-2017: Baroclinic and barotropic flows and the dueling influence of the boundaries. *Geophys. Res. Lett.,* 45, 4180-4188, doi:10.1029/2018GL077408.

(20) Meinen, C. S., S. L. Garzoli, **R. C. Perez**, E. Campos, A. R. Piola, S. Dong, M.-P. Chidichimo, and O. Sato, 2017: Characteristics and causes of Deep Western Boundary Current variability at 34.5°S during 2009-2014. *Ocean Science,* 13, 175-194, doi:10.5194/os-13-175-2017.

(21) Rugg, A., G. R. Foltz, and **R. C. Perez**, 2016: Role of mixed layer dynamics in tropical North Atlantic interannual sea surface temperature variability. *J. Clim*., 29, 8083-8101, doi:10.1175/JCLI-D-15-0867.1.

(22) Elipot, S., R. Lumpkin, **R. C. Perez**, J. M. Lilly, J. Early, and A. Sykulski, 2016: A global surface drifter dataset at hourly resolution. *J. Geophys. Res.*, 121, 2937-2966, doi:10.1002/2016JC011716.

(23) Lumpkin, R., L. Centurioni, and **R. C. Perez**, 2016: Fulfilling observing system implementation requirements with the global drifter array. *Journal of Atmos. Oceanic Technol.,* 33, 685-695, doi:10.1175/JTECH-D-15-0255.1.

(24) **Perez, R. C.**, M. O. Baringer, S. Dong, S. L. Garzoli, M. Goes, G. J. Goni, R. Lumpkin, C. S. Meinen, R. Msadek, and U. Rivero, 2015: Measuring the Atlantic meridional overturning circulation. *Mar. Tech. Soc. Journal*, 49(2), 167-177, doi:10.4031/MTSJ.49.2.14.

(25) Anderson, B. T., and **R. C. Perez**, 2015: ENSO and Non-ENSO induced charging and discharging of the equatorial Pacific. *Clim. Dyn.*, 45, 2309-2327, doi:10.1007/s00382-015-2472-x.

(26) Garzoli, S. L., S. Dong, R. Fine, C. Meinen, **R. C. Perez**, C. Schmid, E. van Sebille, and Q. Yao, 2015: The fate of the Deep Western Boundary Current in the South Atlantic. *Deep Sea Res.*, 103, 125-136, doi:10.1016/j.dsr.2015.05.008.

(27) **Perez, R. C.**, V. Hormann, R. Lumpkin, P. Brandt, W. E. Johns, F. Hernandez, C. Schmid, and B. Bourlès, 2014: Mean meridional currents in the central and eastern equatorial Atlantic. *Clim. Dyn.,* 43, 2943-2962, doi:10.1007/s00382-013-1968-5.

(28) Johns, E. M., B. A. Muhling, **R. C. Perez**, F. E. Müller-Karger, N. Melo, R. H. Smith, J. T. Lamkin, T. L. Gerard, and E. Malca, 2014: Amazon River water in the northeastern Caribbean Sea and its effect on larval reef fish assemblages during April 2009. *Fisheries Oceanogr.*, 23:6, 472-494, doi:10.1111/fog.12082.

(29) Anderson, B. T., **R. C. Perez**, A. Karspeck, 2013: Triggering of El Niño onset through the trade wind-induced charging of the equatorial Pacific. *Geophys. Res. Lett*., 40, 1212-1216, doi:10.1002/grl.50200.

(30) Garzoli, S. L., M. O. Baringer, S. Dong, **R. C. Perez**, and Q. Yao, 2013: South Atlantic meridional fluxes. *Deep Sea Res. I*, 71, 21–32, doi: 10.1016/j.dsr.2012.09.003.

(31) Goes, M., G. J. Goni, V. Hormann, and **R. C. Perez**, 2013: Variability of the Atlantic off-equatorial eastward currents during 1993-2010 using a synthetic method. *J. Geophys. Res.,* 118, 3026-3045, doi:10.1002/jgrc.20186.

(32) Hormann, V., R. Lumpkin, and **R. C. Perez**, 2013: A generalized method for estimating the structure of the equatorial Atlantic cold tongue: Application to drifter observations. *Journal of Atmos. Oceanic Technol.,* 30, 1884–1895, doi:10.1175/JTECH-D-12-00173.1.

(33) Meinen, C. S., S. Speich, **R. C. Perez**, S. Dong, A. R. Piola, S. L. Garzoli, M. Baringer, S. Gladyshev, and E. Campos, 2013: Temporal variability of the meridional overturning circulation at 34.5°S: Results from two pilot boundary arrays in the South Atlantic. *J. Geophys. Res.*, 118, 6461-6478, doi:10.1002/2013JC009228.

(34) **Perez, R. C.**, R. Lumpkin, W. E. Johns, G. R. Foltz, and V. Hormann, 2012: Interannual variations of Atlantic tropical instability waves. *J. Geophys. Res.,* 117, C03011, doi:10.1029/2011JC007584.

(35) Meinen, C. S., A. Piola, **R. C. Perez**, and S. L. Garzoli, 2012: Deep Western Boundary Current transport variability in the South Atlantic: Preliminary results from a pilot array at 34.5°S. *Ocean Science*, 8, 1041-1054, doi:10.5194/os-8-1041-2012.

(36) **Perez, R. C.**, S. L. Garzoli, C. S. Meinen, and R. P. Matano, 2011: Geostrophic velocity measurement techniques for the meridional overturning circulation and meridional heat transport in the South Atlantic. *Journal of Atmos. Oceanic Technol.,* 28, 1504-1521, doi:10.1175/JTECH-D-11-00058.1.

(37) **Perez, R. C.**, M. F. Cronin, and W. S. Kessler, 2010: Tropical cells and a secondary circulation near the northern front of the equatorial Pacific cold tongue. *J. Phys. Oceanogr.,* 40, 2091-2106, doi:10.1175/2010JPO4366.1.

(38) **Perez, R. C.**, and W. S. Kessler, 2009: The three-dimensional structure of tropical cells in the central equatorial Pacific ocean. *J. Phys. Oceanogr.,* 39(1), 27-49,doi:10.1175/2008JPO4029.1.

(39) **Perez, R. C.**, D. B. Chelton, and R. N. Miller, 2005: The effects of wind forcing and background mean currents on the latitudinal structure of equatorial Rossby waves. *J. Phys. Oceanogr.,* 35(5), 666-682, doi:10.1175/JPO2714.1.

PUBLICATIONS (NON-PEER-REVIEWED)

(1) **Perez, R. C.**, G. R. Foltz, R. Lumpkin, J. Wei, K. Voss, M. Ondrusek, M. Wang, and M. Bourassa, 2021: Oceanographic buoys. *In: Field Measurements for Passive Environmental Remote Sensing (ed., Nick Nalli), submitted.*

(2) Nalli, N. R., G. R. Foltz, J. Gero, L. Gibson, R. O. Knuteson, R. Lumpkin, P. J. Minnett, V. R. Morris, M. Ondrusek, **R. C. Perez**, M. Wang, and J. Wei, 2021: Ship-based cal/val campaigns. *In: Field Measurements for Passive Environmental Remote Sensing (ed., Nick Nalli), submitted.*

(3) **Perez, R.,** M. Srokosz, and G. Danabasoglu, 2019: Atlantic overturning circulation questions abound, *Eos, 100,* https://doi.org/10.1029/2019EO114603.

(4) Danabasoglu, G., M. F. de Jong, A. Karspeck, M. Lankhorst, M. Patterson, **R. Perez**, A. Schmittner, W. Weijer, S. Yeager, and R. Zhang, 2016: 2016 US AMOC Science Team Report on Progress and Priorities. A US CLIVAR Report, *Report 2016-4*, 178pp., doi:10.5072/FK2125WB5P.

(5) Danabasoglu, G., R. Curry, A. Karspeck, C. Meinen, R. Msadek, M. Patterson, **R. Perez**, A. Schmittner, L. Thompson, and S. Yeager, 2015: 2014 US AMOC Science Team Annual Report on Progress and Priorities. *Report 2015-1*, US CLIVAR Project Office, 165 pp.

(6) **Perez, R. C.**, 2014: Autobiographical sketches of women in oceanography. *Oceanography Supplement*, 27(7), 186.

(7) Ansorge, I. J., M. O. Baringer, E. J. D. Campos, S. Dong, R. A. Fine, S. L. Garzoli, C. S. Meinen, **R. C. Perez**, A. R. Piola, M. J. Roberts, S. Speich, J. Sprintall, T. Terre, M. A. Van de Berg, 2014: Basin-wide oceanographic array bridges the South Atlantic. *EOS*, 95, 53-54, doi: 10.1002/2014EO060001.

(8) Garzoli, S., P. Abrahamsen, I. Ansorge, A. Biastoch, E. Campos, M. Mata, C. Meinen, J. Pelegri, **R. Perez**, A. Piola, C. Reason, M. Roberts, S. Speich, J. Sprintall, R. Watts, and all of the SAMOC IV participants, 2012. South Atlantic Meridional Overturning Circulation (SAMOC) – Fourth Workshop. *CLIVAR Exchanges*, No. 58 pp. 2-4.

(9) Thompson, L., **R. C. Perez**, and A. E. Shevenell, 2011: Closed ranks in oceanography. *Nature Geoscience*, doi:10.1038/ngeo1113.

(10) Thompson, L., **R. C. Perez**, and A. E. Shevenell, 2011: Reply to "Not just family matters". *Nature Geoscience*, doi:10.1038/ngeo1165.

(11) Perez, R. C., 2006: Numerical and assimilative studies of the equatorial Pacific cold tongue. Ph. D. Dissertation, Oregon State University, Corvallis, Oregon.

(12) Perez, R. C., 1998: Evaluation of the DYNALYSIS Gulf of Mexico Princeton ocean model's skill in simulating the Louisiana-Texas shelf circulation during the LATEX field program (April 1992 to March 1994). University of Miami technical report, No. RSMAS98-004.

SELECTED PRESENTATIONS (LAST FIVE YEARS)

Ronald H. Brown Users Meeting (September 2019)
"FY22 PIRATA Northeast Extension Cruise Requirements"

GOMO Community Virtual Workshop (July 2021)
"Developing a diverse and inclusive ocean observing workforce"

PIRATA-24/Tropical Atlantic Variability Virtual Meeting (May 2021)
"Four years of velocity and vertical shear observations in the tropical North Atlantic"

NOAA/AOML/PhOD Seminar (May 2020)
"Three-years of velocity and vertical shear measurements in the tropical North Atlantic"

TRIATLAS meeting (May 2020)
"Three-years of velocity and vertical shear measurements in the tropical North Atlantic"

US CLIVAR Surface Current workshop (February 2020)
"Daily to interannual variations of velocity and vertical shear in the tropical North Atlantic"

American Geophysical Union Ocean Sciences Meeting (February 2020, poster and oral)

"Three-years of velocity and vertical shear measurements from the Tropical Atlantic Current Observations Study (TACOS)"

"Direct measurements of upper ocean horizontal velocity and vertical shear in the tropical North Atlantic, an update"

IUGG/IAPSO Meeting (July 2019, invited talk)

"Recent advances in the study of the meridional overturning circulation in the South Atlantic"

OOMD Community Workshop (June 2019, invited talk)

"Basin-scale observing to improve predictions and forecasts"

Ronald H. Brown Users Meeting (November 2018)

"FY19 PIRATA NorthEast Extension Cruise Requirements"

PIRATA-23 Meeting and TAOS-2 Meeting (October 2018)

Several presentations on TACOS, PIRATA NorthEast Extension, and Drifters

SEFSC-AOML Workshop (September 2018)

"PIRATA Northeast Extension cruises and possible collaborations"

NOAA/AOML/PhOD Seminar (September 2018)

"Upper ocean horizontal velocity and vertical shear in the tropical North Atlantic"

International AMOC Science Meeting (July 2018, poster)

"Observed changes in the South Atlantic subtropical gyre and links to water mass and transport variations at 34.5S"

ATOMIC/SECO Meeting (June 2018)

"NOAA/AOML fieldwork in Caribbean and tropical Atlantic"

American Geophysical Union Ocean Sciences Meeting (February 2018, poster)

"Observed changes in sea surface height, heat content, and water masses in the South Atlantic subtropical gyre"

Tropical Atlantic Observing System Review Workshop (February 2018)

"Shipboard-vessel Data"

NOAA/AOML/PhOD Seminar (October 2017)

"Tropical Atlantic Currents Observations Study (TACOS) at 4°N, 23°W"

US CLIVAR meeting (August 2017)

"Health of the tropical observing system"

US AMOC Science Team Meeting (May 2017, poster)

"Characteristics and causes of Deep Western Boundary Current transport variability at 34.5°S during 2009-2014"

NOAA OOMD Community workshop (May 2017)
"Boundary Currents: Progress and forward looking to OceanObs'19" (invited talk)
"Deep Western Boundary Current measurements at 34.5°S in the South Atlantic: Recent results from the Southwest Atlantic MOC project" (poster)

US CLIVAR SSC meeting (January 2017)
"Phenomena Observations Synthesis (POS) panel: Review of implementation progress"

NOAA CVP webinar (November 2016)
"South Atlantic Meridional Overturning Circulation: Pathways and modes of variability"

Data Buoy Cooperation panel meeting (November 2016)
"Observed meridional currents in the central and equatorial Atlantic"

US CLIVAR meeting (July 2016)
"Future of deep moored technologies and their synthesis with other observations"
"Global Drifter Program status and future directions"

PhOD Retreat seminar (May 2016)
"PhOD's Scientific Communications"

American Geophysical Union Ocean Sciences Meeting (February 2016, poster)
"Circulation and water mass variability in the South Atlantic subtropical gyre"

AWARDS

2020	NOAA OAR EEO/Diversity Awards for Exemplary Service
2014	NOAA/AOML/PhOD Outreach Award
2006	Selected to attend Physical Oceanography Dissertation Symposium (Honolulu, HI)
2005	National Research Council Postdoctoral Fellow
2003	Wayne Burt Excellence in Physical Oceanography Award (Oregon State University)
1995	Distinguished Undergraduate in Mathematics (University of Miami)
1995	Distinguished Undergraduate in Physics (University of Miami)
1994	NSF Incentives for Excellence Scholarship (University of Miami)

1994 Phi Beta Kappa Honor Society (University of Miami)

1993 Golden Key National Honor Society (University of Miami)

PROFESSIONAL SERVICE ACTIVITIES

2021 Organized UN Ocean Decade Webinar for AOML

2021 Co-Organized SAMOC Logistics Meeting

2021 Science organizing committee of PIRATA-24/Tropical Atlantic Variability Meeting

2020 Member of Latinos@NOAA Employee Resource Group

2020 Participating in NOAA Mentoring Program

2020 Attend the NOAA Virtual Leadership Seminar series in August 2020

2020 Organizer for the first AOML/GFDL Science Connections Workshop in August 2020

2020- Member of U.S. National Academy of Sciences Geodesy and Geophysics panel

2020- Member of SAMOC Executive Committee

2019 Chaired a session during the SAMOC VIII Workshop in Montreal, Canada

2019 Co-organizing NOAA's OOMD Community Workshop in June 2019

2018 Chair of 2018 International AMOC Science Meeting organizing committee in Miami, FL in July 2018.

2018 Co-chair of SAMOC session at 2018 Ocean Sciences meeting in Portland, Oregon.

2017-2019 Member of NOAA/AOML Diversity Inclusion & You (DIY) group.

2017 Guest editor for U.S. CLIVAR Variations spring 2017 issue on Deep Ocean Observations and Science.

2017 Co-organizing NOAA's OOMD Community Workshop in May 2017.

2016 NSF physical oceanography grant proposal panel member.

2016 Co-organized South Atlantic Meridional Overturning Circulation (SAMOC) logistics meeting in New Orleans, LA, and a SAMOC science session at the Ocean Sciences meeting.

2015-2017 Co-chair for the US CLIVAR Phenomena, Observations, and Synthesis (POS) panel.

2015 NOAA grant proposal panel member.

2015 Chair of US AMOC Task Team 1.

2015 Breakout session leader for NOAA Climate Observation Division meeting in College Park, MD on 15-17 June 2015.

2014 Co-organized the RAPID – USAMOC international workshop in Bristol, UK on 21-24 July 2015.

2014 Vice-chair for US AMOC Task Team 1.

2014 Member of the US AMOC Science Team.

2014 Member of US CLIVAR Phenomena, Observations, and Synthesis (POS) panel.

2013 Co-organized a meeting to discuss logistics and planning for a trans-basin array to measure the Meridional Overturning Circulation (MOC) along 34.5°S in the Atlantic at NOAA/AOML in Miami, FL on 29-31 January 2013.

2012 Co-organized a meeting on Inertial Oscillation Physics and Lagrangian Methods at NOAA/AOML in Miami, FL on 7-9 November 2012.

2012-2014 Member of the NOAA/AOML/PhOD award committee.

2011 Chaired a session on "Tropical Atlantic Variability" at the NOAA/AOML/PhOD Science Retreat in Miami, FL on 15-16 February 2011.

2010 Chaired a session on the "Upper Ocean Circulation in Equatorial Cold Tongues" at the 2010 Ocean Sciences Meeting in Portland, Oregon on 22-26 February 2010.

2010-2013 CIMAS/AOML Liaison

2008-2019 Reviewer for the following journals: Climate Dynamics, Dynamics of Atmospheres and Oceans, Geophysical Research Letters, Journal of Climate, Journal of Geophysical Research, Journal of Physical Oceanography, Ocean Modelling; and, funding agencies: the National Science Foundation, the Brazilian funding agency FAPESP, and the South African funding agency NRF.

UNIVERSITY SERVICE ACTIVITIES

1999-2003 Oregon State University, College of Oceanic and Atmospheric Sciences
Physical Oceanography Faculty Hiring Committee, Student representative (Fall 2003)
Promotion and Tenure Committee, Student representative (Fall 2002)

Student Advisory Committee, Division representative (2002-2003)
Student Fees Committee, Member (2001-2002)
Computer Committee, Student representative (2001-2002)
Graduate Student Senator (2000-2002)
Instructional Programs Committee, Student representative (1999-2001)

1995-1998 University of Miami, Rosenstiel School of Marine and Atmospheric Science
Marine Science Graduate Student Organization, Vice President (1997-1998)
Alumni Association, Student representative (1997-1998)
Student Travel Fund Committee, Division representative (1997-1998)
Marine Science Graduate Student Organization, Division representative (1995-1996)

OUTREACH ACTIVITIES

2021 Gave a presentation for NOAA/AOML Virtual Open House (April 2021)

2021 Gave 2 Skype-A-Scientist Talks (March 2021)

2021 Co-moderator of a Careers in NOAA panel for RSMAS Diversity in Marine Science event (February 2021)

2020 Gave 2 Scientist in Every Florida School Talks (December 2020)

2020 Career lecture for UM/RSMAS students (November 2020)

2020 Gave 2 Skype-A-Scientist Talks (September/October 2020)

2020 Guest lecture for undergraduate students at Manchester University (September 2020)

2020 Participated in NCAS-m panel for Howard University on NOAA ocean/atmosphere observations and technologies (July 2020)

2020 Participated in a Skype-A-Scientist Talk (June 2020)

2020 Outreach talk to high school students Royal Palm Beach High School via SEFS program (Apr 2020)

2020 Participated in the NOSB Manatee Bowl as a rules judge.

2019 Density demos at World Ocean's Day at Frost Science Museum (Jun 2019).

2018 Participated in Skype-A-Scientist interviews (Feb/Apr/Nov 2018).

2017 Presented in AOML's Diversity Inclusion & You (DIY) STEM Outreach brownbag (Dec 2017).

2010-2020	Participated and/or conducted density demo/presentation in an annual outreach event hosted by University of Miami Rosenstiel School of Marine and Atmospheric Science and the American Association of University Women: Exploring Marine Science Day for 6-7th grade girls.
2007-2017	Involved with the Mentoring Physical Oceanographic Women to Increase Retention (MPOWIR).
2017	Participated in the Bring Your Child to Work Day (Feb 2017).
2016	Mentored MAST academy teacher, Alycia Ciresi (Jun – Jul 2016).
2016	Mentored Hollings Undergraduate Scholar, Dylan Gates (May – Jul 2016).
2016	Density and convection current demonstrations for AOML My Brother's Keeper event (Mar 2016).
2016-2017	Mentor for MPOWIR peer group
2016	Participated on a panel in an MPOWIR Townhall at the Ocean Sciences Meeting (Feb 2016).
2016	Gave an interview to high school students working on a student film project on climate change (Feb 2016).
2016	Participated in the Bring Your Child to Work Day (Feb 2016).
2015	Interview for National Geographic for the story "Century-Old Message in a Bottle Returned to Sender" (http://news.nationalgeographic.com/2015/08/150825-message-bottle-lego-rubber-ducky-drifter-oceans-currents-science/) (Aug 2015).
2015	Mentored two MAST high school students for 3 days on developing a YouTube video on density and convection currents (Jul 2015).
2015	Mentored Hollings Undergraduate Scholar, Allyson Rugg (May – Jul 2015).
2015	Density and convection current demonstrations for AOML Open House (May 2015).
2015	Participated in the Bring Your Child to Work Day (Apr 2015).
2015	Attended the AAAS Communicating Climate Science Workshop (Mar 2015).
2015	Career Day presentations at Sunset Elementary (Feb 2015).
2014	Career Day presentations at Frank C. Martin International K-8 Center (Dec 2014).

2014 Conducted a density demonstration and effect of temperature and salt on density for Disability Awareness event at NOAA/AOML (Nov 2014).

2014 Gave a presentation on “Sea Level Rise” during a panel discussion entitled "The Future of Fort Lauderdale: Protecting our Paradise against Rising Seas and Stronger Storms" for the Broward County young professional community (Jul 2014).

2014 Mentored three MAST high school students for a week on developing a demonstration on buoyancy (Jul 2014).

2014 Presentation for NOAA/AOML Bring Your Child to Work Day. Demonstration on convective ocean currents.

2014 Presentation for Immaculate Conception School 3rd to 5th grade students on the importance of the oceans. Demonstration on convective ocean currents.

2013 Guest lecturer for dual-enrollment college and high school Oceanography class at the Maritime and Science Technology (MAST) Academy.

2013,2014 Career Day presentation at Somerset Academy Silver Palms School to middle/high school students.

2013 ITWomen presentation for 9-12th grade students on career paths in NOAA at South Broward high school.

2013 Science judge for National Ocean Science Bowl Eastern Florida Regional Competition.

2013 Attended the Center for Ocean Sciences Education Excellence Florida Presentation Bootcamp course.

2011 Organized ocean pressure demonstration for students using styrofoam cups for students at the French American School of Miami (a local primary school).

CRUISE LEADERSHIP

NOV 2021 *PIRATA Northeast Extension Cruise (R/V Ronald H. Brown)*
Chief scientist

2019 PIRATA Northeast Extension Cruise (R/V Ronald H. Brown)
Chief scientist

2017 PIRATA Northeast Extension Cruise (R/V Ronald H. Brown)
Chief scientist

2013 PIRATA Northeast Extension Cruise (R/V Ronald H. Brown)
Co-chief scientist

2012 Fall Western Boundary Time Series Cruise (R/V Endeavor)
Co-chief scientist

CITIZENSHIP

United States of America

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Researcher ID: 16 (636 citations)
Google Scholar: 20 (951 citations)