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PUBLICATIONS (cont.)

- Joshi, I.D., D'Sa, E.J., Osburn, C.L., Bianchi, T.S., Ko, D.S., Oviedo-Vargas, D., **Arellano, A.R.**, Ward, N.D. (2017). Assessing chromophoric dissolved organic matter (CDOM) distribution, stocks, and fluxes in Apalachicola Bay using combined field, VIIRS ocean color, and model observations. *Remote Sensing of Environment*, *191*, 359-372.
- Bianchi T. S., D. Butman, Raymond P. A., Ward N. D, Rory J. S. Kates R. J., Flessa K. W., Zamora H., **A.R. Arellano**, Ramirez J., Rodriguez E. (2017). The Experimental Flow to the Colorado River Delta: Effects on Carbon Mobilization in a Dry Watercourse. *Journal of Geophysical Research: Biogeosciences*, *122*: 607-627.
- Zhang, X., J. A. Hutchings, T. S. Bianchi, Y. Liu, **A. R. Arellano**, and E. A. G. Schuur. 2017. Importance of lateral flux and its percolation depth on organic carbon export in Arctic tundra soil: Implications from a soil leaching experiment. *Journal of Geophysical Research: Biogeosciences* *122*: 796-810.
- Arellano, A.R.**, Coble, P.G. (2015). Assessing carbon and nutrient inputs in a spring fed estuary using fluorescence spectroscopy and discriminatory classification. *Limnology and Oceanography*, *60*, 789-804.
- Liu, Y, T. S. Bianchi, **A.R. Arellano**, Ward, N.D., Molecular signature of organic composition along a salinity gradient in the Suwannee River Plume. (in prep)
- Oviedo-Vargas, D., C.L. Osburn, T.S. Bianchi, E. J. D'Sa, **A.R. Arellano**, N. D. Ward, I. Joshi, D.S. Ko. 2016. Examining the relative contribution of 'blue carbon' to coastal shelf environments via optical properties of dissolved and base-extracted particulate organic matter. (in prep)
- Shields. M., Bianchi, T. S., Osburn, C. L, Arellano, A. R., Kinsey J. D., Ziervogel, K. Schnetzer, A. Biomarker contribution of plankton-derived aggregates to open-ocean CDOM. (in prep)

AWARDS AND HONORS

- 2017 Carl Storm Underrepresented Minority Fellowship, GRC
- 2011-13 Sloan Minority PhD Fellowship
- 2011-13 Endowed Bridge to Doctorate (CMS Endowed Fellowship)
- 2011-12 ASLO Multicultural Participant

REPORTS (cont.)

Arellano, A.R., P.G. Coble, R.N. Conmy. 2012. Investigation of carbon, nutrients, and groundwater inputs in coastal Florida using colored dissolved organic matter. 2012. Report by University of South Florida, College of Marine Science for

PRESENTATIONS (cont.)

Neeley, A., A.R. Arellano, L. Powers. 2012. Ocean Optics Summer Course 2011: Instrument Calibration to Satellite Validation. Ocean Sciences Meeting, Salt Lake City, UT.

Arellano, A.R. 2013. Investigation of Colored Dissolved Organic Matter (CDOM) Optical Properties, Nutrients, and Salinity in Coastal Florida: Springshed to Estuaries. Ph.D. Dissertation. University of South Florida.

Arellano, A.R. Sources of colored dissolved organic matter in coastal environments and in the open ocean. 2015. Invited seminar speaker. Department of Geological Science, University of Florida.

Arellano, A.R., T. S. Bianchi, C.L. Osburn, N. D. Ward. E. J. D'Sa, I. Joshi, D. Oviedo-Vargas. 2016. Assessing bulk carbon and biomarkers in two contrasting bays: blackwater-dominated versus particle-

PRESENTATIONS (cont.)

- Arellano, A.R.**, T. S. Bianchi, C.L. Osburn, N. D. Ward. E. J. D'Sa, I. Joshi, D. Oviedo-Vargas. 2016. Export and losses of blue carbon-derived particulate and dissolved organic matter (POC and DOC) in a blackwater river-dominated and particle-dominated estuaries. American Geophysical Union, San Francisco, CA.
- Liu, Y**, T. S. Bianchi, A.R. Arellano, Ward, N.D. 2016. Molecular signature of organic composition along a salinity gradient in the Suwannee River Plume. American Geophysical Union, San Francisco, CA.
- Joshi, I., **E. J. D'Sa**, C.L. Osburn, T.S. Bianchi, A.R. Arellano, D. Oviedo-Vargas, N. D. Ward, D.S. Ko. 2016. Seasonal estimates of DOC standing stocks in Apalachicola Bay estuary: Toward a better understanding using field, ocean color and model data. American Geophysical Union, San Francisco, CA.
- Zhang, X., T. S. Bianchi, **Hutchings, J.A.**, Liu, Y., A.R. Arellano, Schuur, E.A.G. 2016 Effects of enhanced thaw depth on the composition of arctic soil organic matter leachate. American Geophysical Union, San Francisco, CA.
- Osburn, C. L.**, T. S. Bianchi, E. J. D'Sa, D. Ko, D. Oviedo-Vargas, A.R. Arellano, I. Joshi, N. D. Ward. 2017. Linking carbon exchange between coastal wetland and shelf environments in the northeastern Gulf of Mexico. NACP Principal investigator Meeting, New Bethesda, MD.
- Morrison, E. S.**, T. S. Bianchi, N.D. Ward, Liu, Y., A.R. Arellano, A. Ogram. 2017. The role of priming effects on the conversion of blue carbon to CO₂ in the coastal zone. DOE JGI Genomics of Energy & Environment, Walnut Creek, CA.
- Kellerman, A. M.**, Arellano, A., Podgorski, D. C., Martin, E. E.; Martin, J. B., Deuerling, K., Bianchi, T. S., Spencer, R. 2017. Fundamental drivers of dissolved organic matter composition across an arctic effective precipitation gradient. ASLO, Honolulu, HI.
- Liu, Y.**; Bianchi, T. S.; Arellano, A. R., Ward, N. D., Tolic, N., Pasa-Tolic, L., Kuo, L., Rivas Ubach, A. 2017. Molecular signature of organic carbon along a salinity gradient in Suwannee River plume. ASLO, Honolulu, HI.
- Oviedo-Vargas, D.**; Osburn, C. L.; Bianchi, T. S., D'Sa, E. J., Ko, D. S., Arellano, A.R., Joshi, I. D. 2017. Extracellular enzyme activity in estuarine systems of the Gulf of Mexico and its links to organic matter biogeochemistry. ASLO, Honolulu, HI.
- Arellano, A.R.**, T. S. Bianchi, C.L. Osburn, N. D. Ward. E. J. D'Sa, I. Joshi, D. Oviedo-Vargas. 2017. Carbon cycling dynamics in blackwater river-dominated and particle-dominated estuaries. Gordon Research Conference, New London, NH.

PRESENTATIONS (cont.)

Osburn, C. L., T. S. Bianchi, E. J. D'Sa, D. Ko, D. Oviedo-Vargas, A.R. Arellano, I. Joshi, N. D. Ward. 2018. Local and regional scale exchanges of dissolved organic carbon (DOC) between tidal wetlands and their adjacent coastal waters. AGU, New Orleans, LA.

Morrison, E. 2017.

OCENOGRAPHIC CRUISES (cont.)

- 2016 R/V UF Catamaran. Filtered samples for DOM and POM bulk carbon and chemical biomarkers (lignin and amino acids), Collected light measurements, Cedar Key, FL.
- 2015 R/V *Apalachee*. Filtered samples for DOM and POM bulk carbon and chemical biomarkers (lignin and amino acids), Apalachicola Bay, FL.
- 2015 R/V *Calcutta*. Filtered samples for DOM and POM bulk carbon and chemical biomarkers (lignin and amino acids), Apalachicola Bay, FL.
- 2015 R/V LSU Catamaran. Filtered samples for DOM and POM bulk carbon and chemical biomarkers (lignin and amino acids), Barataria Bay

- 2013 Presentation Boot Camp (NSF funded)
- 2011 Jabil Toastmasters
- 2010 Marine Science Advisory Committee, Vice President
- 2009-19 American Geophysical Union (AGU)

COMMUNITY SERVICE

- 2023 *Planning Committee*, USF Diversity and Inclusion Conference,
St. Petersburg, FL
- 2021 *Science Judge*