

ANA ROSA ARELLANO  
7050 Sunset Dr. S #716. South Pasadena, FL  
[aarellan@usf.edu](mailto:aarellan@usf.edu) ! Cell: (540) 797-5736

---





**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 CO<sub>2</sub> 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.





- 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*