**Education**

PhD. Biological Oceanography, University of South Florida, St. Petersburg, FL, 2013

M.S. Biological Oceanography. University of South Florida, St. Petersburg, FL, 2006

B.S. Biology, Universidad de Puerto Rico, Mayagüez, P.R., 2005

**Academic and Research Experience**

**Postdoctoral Researcher,** Department of Marine Science, University of Southern Mississippi, Stennis Space Center, Mississippi. July 2015-Recent.

**Visiting Postdoctoral Fellowship,** Laboratório de Estudos dos Oceano e Clima, Instituto de Oceanografia, Universidade Federal do Rio Grande (FURG), Rio Grande, RS, Brasil. 2013-april 2015.

**Graduate Research Assistant**, University of South Florida, St. Petersburg, FL. 2005-2013

(Research advisor: Dr. Frank E. Muller-Karger)

**Research Assistant**, Florida Institute of Oceanography, USF, St. Petersburg, FL. 2008-2012

(Research advisor: Dr. Karen Steidinger)

**Relevant Summer Courses**

* Cornell Satellite Remote Sensing Course, Summer 2016, Cornell University, Ithaca, New York. Funded by the Ocean Biology and Biogeochemestry Group.
* Ocean Optics Summer Course, Darling Marine Center, University of Maine. Sponsored by NASA, July 2-20, 2007.

**Awards**

* A. SLOAN Fellowship, USF, 2007-2013
* Successful Latino Student Award, USF, 2009
* Bridge to the Doctorate Fellowship, USF, 2005-2006

**Research experience for undergraduates (REU) internships**

* REU at the Virginia Institute of Marine Science
* Alaska Fisheries Science Center Summer Internship.
* Minorities in Marine Science Undergraduate Program (MIMSUP)

**Publications**

* Soto, I., Muller-Karger, F.E., Hu, C., Wolny, J., 2016. Characterization of Karenia brevis blooms on the West Florida Shelf using ocean color satellite imagery: implications for bloom maintenance and evolution. Journal of Applied Remote Sensing. In Press.
* **Soto, I.,** Cannizzaro, J., Muller-Karger, F.E., Hu, C., Wolny, J., Goldgof, D., 2015. [Evaluation and optimization of remote sensing techniques for detection of Karenia brevis blooms on the West Florida Shelf](https://www.researchgate.net/publication/282613288_Evaluation_and_optimization_of_remote_sensing_techniques_for_detection_of_Karenia_brevis_blooms_on_the_West_Florida_Shelf). Remote Sensing of the Environment 170. DOI: 10.1016/j.rse.2015.09.026
* Santamaria-del-Angel, E., Cerdeira-Estrada, S., **Soto, I.,** Millán-Nuñez, R., Gonzalez-Silvera, A., Cajal-Medrano, C., Muller-Karger, F.E., Álvarez-Torres, P., Xochitl Padilla, Y., Mercado-Santana, A., Ruiz-de-la-Torre, M.C., 2015. Phytoplankton Blooms monitoring: New Initiatives using Marine Optics base in a fast monitoring system. In: Coastal Ecosystems: Experiences and Recommendations for Environmental Monitoring Programs. Ed. Sebastiá-Frasquet, M.T. Nova Science Publishers, ISBN: 978-1-63482-189-6
* Vega-Rodriguez, M., Muller-Karger, F., Hallock, P., Quiles-Perez, G., Eakin, M., Colella, M., Jones, D., Li, J., **Soto, I**., Guild, L., Lynds, S., Ruzicka, R., 2015.  Influence of water-temperature variability on stony coral diversity in Florida Keys patch reefs. Marine Ecology Progress Series 528:173-186. DOI: 10.3354/meps11268
* Pérez-Santos, I., Schneider, W., Valle-Levinson, A., Garcés-Vargas, J., **Soto, I.,** Montoya-Sánchez, R., Melo González, N., Müller-Karger, F.E., 2014. *Patrones superficiales de la clorofila a y procesos de mezcla en la cuenca de Yucatán, mar Caribe.* Ciencias Marinas 40(1): 11-31. DOI: 10.7773/cm.v40i1.2320
* Hu, C., Sathyendranath, S., Shutler, J. D., Brown, C. W., Moore, T. S., Craig, S.E., **Soto, I**., and Subramaniam, A., 2014. Detection of Dominant Algal Blooms by Remote Sensing. In: IOCCG (2014). Phytoplankton Functional Types from Space. Sathyendranath, S. (ed.), Reports of the International Ocean-Colour Coordinating Group, No. 15, IOCCG, Dartmouth, Canada.
* **Soto, I.**, Hu, C., Steidinger, K., Muller-Karger, F., Cannizzaro, J., Wolny, J., Cerdeira-Estrada, S., Santamaria-del-Angel, E., et al., 2012. *Binational collaboration to study Gulf of Mexico's harmful algae.* Eos Trans. AGU 93(5).
* Montes, E., Muller-Karger, F., Thunell, R., Hollander, D., Astor, Y., Varela, R., **Soto, I.**, Lorenzoni, L., 2012*. Vertical fluxes of particulate biogenic material through the euphotic and twilight zones in the Cariaco Basin, Venezuela.* Deep Sea Research Part I: Oceanographic Research Papers 67(0), 73-84.
* **Soto, I.**, Muller Karger, F.E., Hallock, P., Hu, C., 2011. Sea Surface Temperature *Variability in the Florida Keys and Its Relationship to Coral Cover.* Journal of Marine Biology, doi: 10.1155/2011/981723.
* Hu, C., Cannizzaro, J., Carder, K., Lee, Z.P., Muller-Karger, F.E., **Soto, I.**, 2011. *Red*

*tide detection in the Eastern Gulf of Mexico using MODIS imagery.* In: Morales, J.,

Stuart, V., Platt, T., Sathyendranath, S. (Eds.), Handbook of Satellite Remote Sensing

Image Interpretation: Applications for Marine Living Resources Conservation and

Management EU PRESPO and IOCCG, Dartmouth, Canada. pp 95-110.

* Yun, K., Hu, C., Lu, D., **Soto, I.**, Muller-Karger, F.E., 2011. *Shoreline changes in the*

*west-central Florida between 1987-2008 from Landsat observations.* International Journal of Remote Sensing 32(23), 8299-8313.

* **Soto, I.**, Andrefouet, S., Hu, C., Muller-Karger, F., Wall, C., Sheng, J., Hatcher, B., 2009. *Physical connectivity in the Mesoamerican Barrier Reef System inferred from 9 years of ocean color observations.* Coral Reefs. DOI 10.1007/s00338-009-0465-0.
* Cheng, W., Hall, L.O., Goldgof, D.B., **Soto, I.**, Hu, C., 2009. *Automatic red tide detection from MODIS satellite images, Systems, Man and Cybernetics*, 2009. SMC 2009. IEEE International Conference on, pp. 1864-1868.