

CURRICULUM VITAE

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Professional Experience

06/2020- 01/2024: Included in the Fulbright Specialist Roster (US Department of State)
08/2017-present: Associate Professor of Marine Science, Florida Gulf Coast University
06/2017- 08/2017: Summer Faculty Fellowship, Naval Research Lab, Stennis Space Center, MS
08/2015-present: Program Coordinator for B.S. Marine Science; responsible for Course Scheduling, Program Assessment and Curriculum Development
08/2011- 08/2017: Assistant Professor of Marine Science, Florida Gulf Coast University
11/2004-07/2011: Research Associate, Coastal Studies Institute, Louisiana State University
01/2002-11/2004: Post-Doctoral Fellow, Department of Oceanography & Fisheries, University of Azores, Horta, Faial, Portugal
01/2001-12/2001: Research Associate, Nansen Environmental Research Centre, Kochi, India
03/1997-03/2000: Senior Research Fellow, (CSIR/NCESS), Kerala, India
03/1994-03/1997: Junior Research Fellow (CSIR/NCESS), Kerala, India

Education

Cochin University of Science & Technology, Kerala, India; Ph. D, Oceanography, 2001
Cochin University of Science & Technology, Kerala, India; M. Sc. (with Distinction), 1993
Mahatma Gandhi University, Kerala, India; B.Sc. Physics (with Distinction), 1990

Dissertation

Coastal hydrodynamics and sediment transport along southwest coast of India with special reference to heavy sand. Cochin University of Science and Technology (CUSAT), India, 207pp.

Areas of Specialization:

Coastal Hydrodynamics, Nearshore sediment transport, Ocean data analysis, Wave and storm surge modeling, Beach morphodynamics, Ecosystem Modeling, Larval transport modeling

Panels & Technical Committees

NSF Reviewer 2021

Indian River Lagoon National Estuary Program (IRLNEP) State of the Lagoon Technical

Report- *Technical Advisory Committee*
Session Moderator for 2020 STEM Undergraduate Research & Internship Symposium held at
FGCU, 4th December 2020.

Peer Reviewed Research Publications

- Carlin F. and **Jose, F.**, 2021, Storm-driven morphodynamics of a sandy beach in Florida. *Shore & Beach (in prep)*.
- Murphy, K. and **Jose, F.**, 2021. Dynamics of a shore normal barrier island during Hurricane Michael; St. Joseph Peninsula, Florida Panhandle, *Shore & Beach (in prep)*.
- Ahmad, H. and **Jose, F.**, 2021. Spatio-temporal variability of SST and primary productivity in the Bay of Bengal. (in prep)
- Jayaram, C and **Jose, F.**, 2021. Relative dominance of Ekman pumping along west coast of India during Southwest Monsoon, in prep for *Continental Shelf Research*
- Krueger, E.T. and **Jose, F.**, 2021. Assessing upper-ocean response from major hurricanes in the Gulf of Mexico and western Caribbean Sea, *Remote Sensing Applications: Society and Environment*, Elsevier (provisionally accepted).
- Dye, B., **Jose, F.**, Mortensen, J.B., Milbrandt and Richard, J., 2020. Eastern oyster larval transport modeling for the Charlotte Harbor Estuarine system: A new MIKE ECO Lab Template, *Restoration Ecology (in prep)*
- Alipour, A., Siadatmousavi, S.M. and **Jose, F.**, 2020. Numerical simulation of waves in the Caspian Sea: Calibration and verification of the observation-based source terms of WW III Model, *Ocean Dynamics, Springer* (under review).
- Kalourazi, M.Y., Siadatmousavi, S.M., Yeganeh-Bakhtiary, A. and **Jose, F.**, 2020. WAVEWATCH-III source terms evaluation for optimizing hurricane wave modeling: A case study of Hurricane Ivan, *Oceanologia, Elsevier* (accepted).
- Harvey, N., Gross, A.M., **Jose, F.**, Savarese, M. and Missimer, T., 2020. Geomorphologic impact of Hurricane Irma on Marco Island, Southwest Florida, *Natural Hazards* (accepted).
- Dye, B., **Jose, F.** and Allahdadi, M.N., 2020. Circulation dynamics and seasonal variability for the Charlotte Harbor Estuary, Southwest Florida coast, *Journal of Coastal Research*, 36(2), 276-288.
<https://www.jcronline.org/doi/pdf/10.2112/JCOASTRES-D-19-00071.1>
- May, R.K., Tolley, S.G., Scharer, R.M., Dye, B., **Jose, F.** and Poulakis, G.R., 2019. Automated monitoring of fine-scale movements of the endangered small tooth sawfish (*Pristis pectinata*), *Fishery Bulletin* (NOAA), 117, 360-371.
<https://spo.nmfs.noaa.gov/sites/default/files/pdf-content/fish-bull/may.pdf>
- Kalourazi, M.Y., Siadatmousavi, S.M., Yeganeh-Bakhtiary, A. and **Jose, F.**, 2019. Simulating tropical storms in the Gulf of Mexico using analytical models, *Oceanologia*, Elsevier.
<https://doi.org/10.1016/j.oceano.2019.11.001>
- Jose, F.**, Savarese, M. and Gross, A.M., 2019. Impact of Hurricane Irma on Keewaydin Island, Southwest Florida coast, *Proceedings of Coastal Sediments 2019 Conference, World Scientific*, 1142-1151. https://doi.org/10.1142/9789811204487_0099
- Krueger, E.T., and **Jose, F.**, 2019. Response of sea surface properties following Gulf of Mexico hurricanes, *Proceedings of SPIE 2018 Annual Meeting*, Baltimore, Maryland
<http://dx.doi.org/10.1117/12.2520277>
- Harvey, N., Stingu, S. and **Jose, F.**, 2019. Imperial River and Estero Bay Circulation: estimation of pressure gradient and frictional forcing based on Flow Monitoring, *Aquila, FGCU student Research Journal*, 5(1), 23-29.

- <https://fgcu.digital.flvc.org/islandora/object/fgcu%3A34467>
- Sahoo, B., **Jose, F.** and Bhaskaran, P.K., 2019. Hydrodynamic response of Bahamas Archipelago to storm surge and hurricanes generated waves – A case study for Hurricane Joaquin, *Ocean Engineering, Elsevier*, 184(15), 227-238.
<https://doi.org/10.1016/j.oceaneng.2019.05.026>
- Kobashi, D. and **Jose, F.**, 2019. Storm-driven dispersal of fluvial fine sediment on a low-energy inner shelf, *Regional Studies in Marine Science, Elsevier (accepted on 03/18/2019)*
<https://doi.org/10.1016/j.rsma.2019.100594>
- Fugate, D, and **Jose, F.**, 2019. Hands-on Oceanography; Forces in an estuary: Tides, Freshwater and Friction, *Oceanography*, 32 (1): 231-236.
<https://doi.org/10.5670/oceanog.2019.105>
- Krueger, E. and **Jose, F.**, 2018. Seasonal and inter-annual variability in SST and Chl-a concentration along the west Florida Shelf: Analyzing 5 years of satellite data. *Proceedings of SPIE Annual Meeting, Orlando, FL.*
<https://doi.org/10.1117/12.2309777>
- Allahdadi, M.N., Chaichitehrani, N., **Jose, F.**, Nasrollahi, A., Afshar, A. and Allahyar, M., 2018. Cyclone-generated storm surge in the northern Gulf of Oman: A field data analysis during Cyclone Gonu, *American Journal of Fluid Dynamics*, 8 (1): 10-18.
<http://article.sapub.org/10.5923.j.ajfd.20180801.02.html>
- Kobashi, D. and **Jose, F.**, 2018. Potential impacts of sand mining on Hydrodynamics and fine sediment suspension and deposition on an inner-shelf shoal, *Journal of Coastal Research: SI 81*, 76-85, “Tropical coastal and estuarine dynamics”.
<http://www.jcronline.org/doi/abs/10.2112/SI81-010.1>
- Patra, A., Bhaskaran, P.K. and **Jose, F.**, 2017. Time evolution of atmospheric parameters and their influence on sea level pressure over the head Bay of Bengal, *Climate Dynamics* (Springer), <https://link.springer.com/content/pdf/10.1007/s00382-017-3892-6.pdf>
- Gayathri, R., Bhaskaran, P.K. and **Jose, F.**, 2017. Coastal Inundation Research: an overview of the Processes, *Current Science*, 112 (2), 267- 278.
<http://www.currentscience.ac.in/Volumes/112/02/0267.pdf>
- Allahdadi, M. N., **Jose, F.**, D’Sa, E.J. and Ko, D.S., 2016. Effect of wind, river discharge and outer-shelf phenomena on circulation dynamics of the Atchafalaya Bay and Shelf, *Ocean Engineering*.
<https://www.sciencedirect.com/science/article/pii/S0029801816304760?via%3Dihub>
- Siadatmousavi, S.M., **Jose, F.** and Miot de Silva, G, 2016. Sensitivity of a third-generation wave model to wind and boundary condition sources and model physics: A case study from the South Atlantic Ocean off Brazil coast, *Computers and Geosciences*, 90 (B), 57-65.
[doi:10.1016/j.cageo.2015.09.025](https://doi.org/10.1016/j.cageo.2015.09.025)
- Freeman, A.M., **Jose, F.**, Roberts, H.H. and Stone, G.W., 2015. Storm induced hydrodynamics and sediment transport in a coastal Louisiana Lake. *Estuarine Coastal and Shelf Science*, 161, 65-75. [doi:10.1016/j.ecss.2015.04.011](https://doi.org/10.1016/j.ecss.2015.04.011)
- Siadatmousavi, S. M., and **Jose, F.**, 2015. Winter storm-induced hydrodynamics and morphological response of a shallow transgressive shoal complex: Northern Gulf of Mexico, *Estuarine, Coastal and Shelf Science*, 154, pp 58-68.
[doi:10.1016/j.ecss.2014.12.025](https://doi.org/10.1016/j.ecss.2014.12.025)
- Murthy, P.L.N., Sandhya, K.G., Bhaskaran, P.K., **Jose, F.**, Gayathri, R., Balakrishnan Nair, T.M., Srinivasa Kumar, T. and Shenoi, S.S.C., 2014. A coupled hydrodynamic modeling system for Phailin Cyclone in the Bay of Bengal, *Coastal Engineering*, 93, 71-81.
[doi:10.1016/j.coastaleng.2014.08.006](https://doi.org/10.1016/j.coastaleng.2014.08.006)

- Siadatmousavi, S.M., **Jose, F.**, Chen, Q. and Roberts, H.H., 2013. Comparison between optical and acoustical estimation of suspended sediment concentration: Field study from a muddy coast, *Ocean Engineering*, 72: 11-24. [doi:10.1016/j.oceaneng.2013.06.002](https://doi.org/10.1016/j.oceaneng.2013.06.002)
- Allahdadi, M., **Jose, F.** and Patin, C. (2013). Seasonal hydrodynamics along the Louisiana coast: Implications for Hypoxia spreading, *Journal of Coastal Research*, 29(5), 1092-1100. <http://dx.doi.org/10.2112/JCOASTRES-D-11-00122.1>.
- Miot de Silva, G., SiadatMousavi, S.M. and **Jose, F.**, (2012). Wave-driven sediment transport and beach/dune dynamics in a headland bay beach, *Marine Geology*, 323-325, 29-46. [doi:10.1016/j.margeo.2012.07.015](https://doi.org/10.1016/j.margeo.2012.07.015)
- Siadatmousavi, S.M., Allahdadi, M., Chen, Q., **Jose, F.** and Roberts, H.H., (2012). Simulation of wave damping during a Cold Front over the Muddy Atchafalaya Shelf, *Continental Shelf Research*, 47, 165-177. [doi:10.1016/j.csr.2012.07.012](https://doi.org/10.1016/j.csr.2012.07.012)
- Siadatmousavi, S.M., **Jose, F.** and Stone, G.W., 2012. On the importance of high frequency tail in third generation wave models, *Coastal Engineering*, 60, 248-260. [doi:10.1016/j.coastaleng.2011.10.007](https://doi.org/10.1016/j.coastaleng.2011.10.007)
- Siadatmousavi, S.M., **Jose, F.** and Stone, G.W., 2011. Evaluation of two WAM white capping parameterizations using parallel unstructured SWAN with application to the northern Gulf of Mexico, USA, *Journal of Applied Ocean Research*, 33 (1), 23-30. [doi:10.1016/j.apor.2010.12.002](https://doi.org/10.1016/j.apor.2010.12.002)
- Allahdadi, M., **Jose, F.**, Stone, G.W. and D'Sa, E., 2011. The fate of sediment plumes discharged from Mississippi and Atchafalaya rivers: An integrated observation and modeling study for the Louisiana Shelf, USA, In: Wang, P.; Rosati, J.D.; Roberts, T.M., 2011. *Proceedings of the Coastal Sediments 2011*, Miami, Florida; [doi:10.1142/9789814355537_0166](https://doi.org/10.1142/9789814355537_0166).
- Siadatmousavi, S.M., **Jose, F.** and Stone, G.W., 2010. The effects of bed friction on wave height: Implementation of a third-generation wave model, SWAN, *Journal of Coastal Research*, 27(1), 140-152. <http://dx.doi.org/10.2112/JCOASTRES-D-10-00073.1>
- Jose, F.** and Stone, G.W. 2009. Wave transformation over Sabine Bank, off the Louisiana-Texas coast: Implications for targeted sand mining for coastal restoration. *IEEE Proceedings, Oceans 2009*, October 26-29, 2009. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5422176>
- Stone, G.W., **Jose, F.**, Luo, Y., SiadatMousavi, S.M. and Holland, T., 2009. A WAVCIS based ocean observing station to provide hydrodynamic data off Eglin Air Force Base, Fort Walton, Florida. *IEEE Proceedings, Oceans 2009*, October 26-29, 2009. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5422167>
- SiadatMousavi, S.M., **Jose, F.** and Stone, G.W. 2009. Simulating Hurricane Gustav and Ike wave fields along the Louisiana innershelf: Implementations for an unstructured third-generation wave model, SWAN. *IEEE Proceedings, Oceans 2009*, October 26-29, 2009. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5422119>
- Jose, F.**, Stone, G.W., Kobashi, D., SiadatMousavi, S.M. and Liu, B., 2009. Hydrodynamic response of a transgressive shoal to the proposed mining for restoring adjacent beaches and barrier islands: Sabine Bank, off Louisiana-Texas coast, United States, *eProceedings, Coastal Dynamics 2009*, September 2009, Paper # 146, Tokyo, Japan, *World Scientific*. https://doi.org/10.1142/9789814282475_0145
- Spaziani, A.L., **Jose, F.** and Stone, G.W., 2009. Sediment dynamics on an innershelf shoal during storm events in the northeastern Gulf of Mexico, *Journal of Coastal Research*, SI 56, 668-672.

- http://www.cerf-jcr.org/images/stories/668.672_A.L.Spaziani_ICS2009.pdf
- Mohn, C., White, M., Bashmachnikov, I, **Jose, F.** and Pelegri, J.L., 2009. Dynamics at an elongated, intermediate depth seamount in the North Atlantic (Sedlo Seamount, 40° 20'N, 26° 40'W), *Deep Sea Research II*, 56(25), 2582-2592.
<https://doi.org/10.1016/j.dsr2.2008.12.037>
- Bashmachnikov, I. Mohn, C., Pelegri, J.L., Martins, A., **Jose, F.**, Machin, F. and White, M., 2009. Interaction of Mediterranean water eddies with Sedlo and Seine seamounts, subtropical Northeast Atlantic, *Deep Sea Research II*, 56(25), 2593-2605.
<https://doi.org/10.1016/j.dsr2.2008.12.036>
- Kumar, R.R., Raturi, A.R., Kumar, B.P., Bhar, A., Subrahmanyam, B.B. and **Jose F.**, 2008. Parameterization of wave attenuation in muddy beds and implication on coastal structures, *Coastal Engineering Journal*, World Scientific, 50 (3) 309-324.
<https://doi.org/10.1142/S0578563408001843>
- Stone, G.W., **Jose, F.** and Guidroz, W.S., 2007. Impacts of Hurricane Rita along the south-west Louisiana coast, USA. *Water Resources IMPACT*, American Water Resources Association, 9 (60), 14 - 16.
https://www.jstor.org/stable/wateresoimpa.9.6.0014?seq=1#metadata_info_tab_contents
- Jose, F.**, Kobashi, D. and Stone, G.W., 2007. Spectral wave transformation over an elongated sand shoal off south-central Louisiana, USA, *Journal of Coastal Research*, SI50, 757-761.
<https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.522.6308&rep=rep1&type=pdf>
- Kobashi, D., **Jose, F.** and Stone, G.W., 2007. Impacts of river discharges and winter storms on a sand shoal heterogeneous sedimentary environment, off south-central Louisiana, USA. *Journal of Coastal Research*, SI50, 858-862.
https://cerf-jcr.org/index.php?option=com_content&view=category&id=28&Itemid=75
- Stone, G.W., Liu, B. and **Jose, F.**, 2007. Winter storm and tropical cyclone impacts on the short-term evolution of beaches and barriers along the north-eastern Gulf of Mexico. *Proceedings of Coastal Sediments '07*, ASCE, v 2, 935-950.
[https://ascelibrary.org/doi/abs/10.1061/40926\(239\)72](https://ascelibrary.org/doi/abs/10.1061/40926(239)72)
- Jose, F.** and Stone, G.W., 2006. Forecast of nearshore wave parameters using MIKE 21 spectral wave model: *Transactions of Gulf Coast Association of Geological Societies*, v 56, p 323-327.
http://archives.datapages.com/data/gcags/data/056/056001/323_gcags560323.htm
- Kobashi, D., **Jose, F.** and Stone, G.W. 2006. Wave and bottom sediment interactions over a submerged sand bank during the winter cold front season, western Louisiana, *Transactions of Gulf Coast Association of Geological Societies*, v 56, p 395-401.
http://archives.datapages.com/data/gcags/data/056/056001/395_gcags560395.htm
- Christiansen, B., Bashmachnikov, I. and **Jose, F.** 2006. The Bathymetry of Sedlo and Seine Seamounts, North Atlantic. *OASIS Report*, Oceanic Seamounts: An Integrated Study, Hamburg, Germany, pp 12.
<https://cordis.europa.eu/project/rcn/67541/reporting/en>
- Kobashi, D., **Jose, F.**, Stone, G.W. 2005. Hydrodynamics and sedimentary responses within the bottom boundary layer: Sabine Bank, western Louisiana. *Transactions of Gulf Coast Association of Geological Societies*, v 55, p 392-399.
<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.663.8063&rep=rep1&type=pdf>
- Lafon, V., **Jose, F.**, Tempera, F., Macedo, L. and Martins, A. 2005. Summertime morphodynamics of two beaches presenting different wave exposure – Faial Island, Açores, Portugal. *Proceedings, Coastal Dynamics 05*, ASCE, New York. [http://dx.doi.org/10.1061/40855\(214\)4](http://dx.doi.org/10.1061/40855(214)4)

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<https://doi.org/10.1117/12.565588>
- Martins, A., Bashmachnikov, I., Lafon, V.M., Mendonça, A., **Jose F.** and Figueiredo, M., 2004. Discovering the Açores Current/Front System with SeaWiFS imagery, *Proceedings-SPIE the International Society for Optical Engineering*, v 5569, 156-167
<https://doi.org/10.1117/12.565589>
- Kurian, N.P., Prakash, T.N., **Jose, F.** and Black K.P., (2002). Hydrodynamic processes and heavy mineral deposits of the southwest coast of India. *Journal of Coastal Research*, SI 34, 154-163.
<https://www.jstor.org/stable/pdf/25736284.pdf>
- Prakash, T. N., Kurian, N.P. and **Jose, F.** (1999) Beach stability in relation to the nearshore wave energy distribution along the Quilon coast, southwest coast of India, *Indian Journal of Marine Sciences*, 28, 233-239.
<http://nopr.niscair.res.in/bitstream/123456789/25552/1/IJMS%2028%283%29%20233-239.pdf>
- Jose, F.**, Kurian N. P. and Prakash T. N., 1997. Longshore sediment transport along the southwest coast of India. Proc. *Second Indian National Conference on Harbor and Ocean Engineering*, 1997, V.2, pp 1047-1053.
- Prakash T. N., Kurian N. P. and **Jose, F.**, 1997. Heavy sand concentration in relation to hydrodynamic processes along Manavalakurichi, southwest coast of India. Proc. *Second Indian National Conference on Harbor and Ocean Engineering*, 1997, V.2, pp 1099-1107.
- Kurian N. P., Prakash T. N. and **Jose, F.**, 1997 Wave power potential of the Kanyakumari-Alappuzha sector, southwest coast of India. Proc. *Second Indian National Conference on Harbor and Ocean Engineering*, 1997, V.1, pp 228-233.
- Kurian, N.P., Prakash, T.N. and **Jose, F.**, 1996. Hydrodynamic processes along Quilon coast. *International Conference in Ocean Engineering*. COE'96, pp.264-269.

Scientific Reports (Peer Reviewed)

- Savarese, M and **Jose, F.**, 2016. Coastal Partnerships: Southwest Florida's Coastal Adaptation in the Context of Future Storm Impacts and Sea-level Rise: A Case Study Investigation of Fort Myers Beach; Final Project Report submitted to *FDEP/ NOAA Coastal Partnership Initiative*.
- Jose, F.**, Condrey, R.E., Fleegeer, J.W., Liu, B., Gelpi, C., Siadatmousavi, S.M., Grippo, M., Kobashi, D. and Dubois, S.F. (2014). Environmental Investigation of the Long-term use of Trinity and Tiger Shoals as sand resources for large-scale beach and coastal restoration in Louisiana, Final Report submitted to *BOEM, Department of Interior*, pp 258.
- Stone, G.W., et al., 2011. Wave-bottom interaction and bottom boundary layer dynamics in evaluating sand mining at Sabine Bank for coastal restoration, southwest Louisiana. U.S. Department of the Interior, *Bureau of Ocean Energy Management, Regulation and*

Enforcement (BOEMRE), Gulf of Mexico OCS Region, New Orleans, LA. OCS Study BOEMRE.

Stone, G.W. et al., 2009. Environmental Investigation of the long-term use of Ship Shoal sand resources for large scale beach and coastal restoration in Louisiana. U.S. Department of the Interior, *Minerals Management Service*, Gulf of Mexico OCS Region, New Orleans, LA. OCS Study, MMS 2009-024, 278 pp.

<http://www.boemre.gov/sandandgravel/PDF/2009-024.pdf>

Kurian, N.P., Prakash, T.N. and Jose, F., 1997. Placer mineral transport and concentration along south-west coast of India. Final Technical report submitted to Department of Science & Technology, Government of India

Graduate Theses Mentored as Advisor

Erica Krueger, 08/2019: Upper Ocean response to major hurricanes in the Gulf of Mexico and Western Caribbean Sea.

<https://fgcu.digital.flvc.org/islandora/object/fgcu%3A35468>

Bass Dye, 07/2018: An Agent Based Model to evaluate spatio-temporal variability in oyster reef connectivity in the Charlotte Harbor Estuarine System, Florida

<http://fgcu.digital.flvc.org/islandora/object/fgcu%3A31531>

Research Grants, Contracts and Scholarships during the last 12 years

NSF/DISES 2020: Integration of Natural and Social Sciences to Improve Socioeconomic Resilience to the Vulnerabilities of Sea-level Rise and Storminess in Collier County, Southwest Florida, Co-PI, *In prep* for NSF.

NOAA/SECOORA, 2021: Inner-South-West Florida Shelf Monitoring pilot Mooring, Submittal in response to SECOORA 2020 Solicitation: “Fill regional Product and Observational Gaps”, Co-PI, \$135,097.00 (Submitted on *11/30/2020*)

NOAA/IOOS/GCOOS, 2021: South-West Florida Shelf HABS Monitoring Pilot Program (SHABS); Addendum: SHABS-3 Buoy System and ASV Operations, Boca Grande Pass (2021-2026). Co-PI, \$500,000.00 (submitted on 07/24/2020, not funded)

FGCU/Martin Foundation, 2021: Oyster larval transport and settlement in the Caloosahatchee River/Estuary- Summer/Fall Field Monitoring Study, PI; \$25,000.00 (funded on 06/30/2020).

FWC/FWRI 2020: An Autonomous Red Tide Surveying System (ARTSS) for west Florida Shelf (2020-2022). PI, \$633,000.00 (submitted on 05/29/2020, not funded).

NOAA/IOOS/SECOORA 2020: South-West Florida Shelf HABS Monitoring Pilot Program (SHABS); LOI submittal in response to SECOORA Solicitation: FY 2021 Implementation of the U.S. Integrated Ocean Observing System (IOOS), Co-PI, \$497,418.00 (submitted on 05/26/2020, not funded)

Whitaker Center/Blair Foundation 2020: Coastal Vulnerability for Sanibel and Captiva Islands; \$5000.00. *Graduate Student Fellowship* awarded to Andrew M. Gross, spring 2020 (*served as mentor*).

FGCU/Martin Foundation, 2020: Oyster larval transport and settlement in the Caloosahatchee River/Estuary- Summer Field Monitoring Study, PI; \$32,500.00 (funded on 09/2019).

Norwegian Research Council, 2020: A management tool for coastal aquaculture in Norway based on nearshore ocean circulation dynamics (MATNOC). International Collaboration with Norwegian Institute for Water Research (Akvaplan/NIVA); Collaborator. (funded on 12/12/2019).

NOAA/NOS/IOOS, 2020: Southwest Florida shelf HABS Monitoring Pilot program, Red tide and Blue Green algae monitoring, lee and Collier counties, SW Florida, Co-PI; \$1,173,622.00. *submitted on 13th January 2020(not funded).*

Florida DEP/FRCP, 2020: Coastal Inundation Mapping and Vulnerability assessment for Sanibel and Captiva Islands, Southwest Florida coast; Co-PI; \$93,500.00; (07/2020- 04/2021), *submitted on 10/07/2019 (unfunded).*

FGCU Scholarship-Research Venture Fund 2019: Impact of Hurricane Michael on St. Joseph peninsula, Florida panhandle; PI; \$14473.00; 02/15/2019- 06/30-2019 (funded)

FGCU Scholarship-Research Venture Fund 2019: FGCU Computational Center: Modeling and Simulations; Co-PI; \$36,000.00; 02/15/2019- 06/30-2019 (funded)

FGCU/CAS/Seidler Foundation 2019: Long-term geomorphological evolution of St. Joseph Peninsula and Cape San Blas and the impact of Hurricane Michael; PI, \$5000.00, May- August, 2019 (funded)

FGCU Professional Development Enhancement Award 2019: Funding support for updating Matlab[®] and selected toolboxes: \$971.67; 03/07/2019 (funded)

Florida DEP/FRCP, 2019: As Assessment of Coastal Vulnerability due to sea-level rise and increased storminess, Sanibel Island, Florida; Co-PI, \$53,500.00; 1/1/2019 – 06/30/2019, (funded).

Florida DEP/CPI (Florida Coastal Office) 2018: Delineating populations of the Eastern Oyster (*Crassostrea virginica*) along the west coast of Florida; Collaborator; PI: Kristian Taylor, Florida Southern College, Lakeland; \$ 20,153.00 (not funded).

Whitaker Center/Blair Foundation 2018: Seasonal and Inter-annual variability in SST and Chl-a along the West Florida Shelf; \$5000.00. *Graduate Student Fellowship* awarded to Erica Krueger, spring 2018 (*served as mentor*).

Whitaker Center/Blair Foundation 2018: Geomorphological evolution of low-lying barrier islands along the southwest Florida coast; \$5000.00. *Graduate Student Fellowship* awarded to Christina Weisbruch. Spring 2018 (*served as mentor*).

Whitaker Center/Blair Foundation 2017: Identifying sites to implement oyster reefs restoration using a coupled biological-physical transport model, \$5000.00. *Graduate Student Fellowship* awarded to Bass Bye. Co-Mentor. Spring 2017 (*served as co-mentor*).

Office of Naval Research/NRL 2017: 10-week Summer Faculty Fellowship on hydrodynamic modeling at *Naval Research Lab, Stennis Space Center, Mississippi*; \$16,000.00, June 12th – August 18th, 2017 (funded)

NOAA/NCCOS 2017: A Web-Based Interactive Decision-Support Tool for Adaptation of Coastal Urban and Natural Ecosystems (**ACUNE**) in Southwest Florida, \$997,267.00; June 1, 2017- May 31, 2020. Co-PI. PI's are Dr. Peter Sheng from University of Florida and Dr. Michael Savarese from FGCU (funded).

NOAA/NCCOS 2017: Modeling Shellfish Population Dynamics on the Southwest Florida Shelf, \$1,200,000.00. Co-PI; PI- Dr. Michael Parsons from FGCU (not funded).

NOAA/Florida Sea Grant 2017: Identifying optimal sites to implement oyster reefs restoration in the Caloosahatchee River Estuary using a coupled biological-physical transport model, \$200,000.00; Co-PI and PI: Joelle Richards from FGCU. (not funded).

CAS/Seidler Foundation 2017: Monitoring Coastal Upwelling and Primary productivity around Florida Peninsula using Remote Sensing Data Analysis, \$9250.00, PI (not funded).

Office of Research and Graduate Studies, FGCU 2016: Small Grant for Preliminary Study (SGPS) Coastal Upwelling and Primary productivity along West Florida Shelf: Application of Satellite Remote Sensing as a cost-effective Tool for Coastal Monitoring, \$5000.00, served as PI; 08/01/2016-05/31/2017 (funded).

Whitaker Center/Blair Foundation 2016: Monitoring Coastal upwelling and red tide events from sea surface temperature and ocean color data: A case study from the west Florida Shelf, \$5000.00. *Undergraduate Student Fellowship* awarded to Erica Krueger, Spring/summer 2016, (funded and served as mentor).

USGS/ St. Petersburg 2016: Quantifying Surface Wave Energy Dissipation over Senile Atlantic Coral Reefs: A Case Study for Crocker Reef, Northern Florida Keys, \$59,958.00. PI, in collaboration with Dr. David Fugate (unfunded).

USACE/ERDC 2016: Evaluating Cross-shore Sediment Grain Size Distribution, Sediment Transport, and Morphological Evolution of Nearshore Placement Sites-A Case study for Fort Myers Beach, FL, \$58,957.00, PI with Drs. David Fugate and Joanne Muller from FGCU as Co-PI's (unfunded).

FIO Ship time award, 2016: Project Title – *The Ocean is our classroom, Bringing Real-Time Oceanography into the classroom.* \$30,000 equivalent ship time (2016-2017). PI, in collaboration with USF, St. Petersburg, awarded on 10/2016.

FIO Ship time award, 2015: Project Title – *The Ocean is our classroom, Bringing Real-Time Oceanography into the classroom.* \$30,000 equivalent ship time (2015-2016). PI, in collaboration with USF, St. Petersburg, awarded on 09/22/2015.

Florida Sea Grant/NOAA, 2015: *Vulnerability of Southwest Florida's Barrier Islands in the Context of Accelerated Sea-level Rise and Storminess: Improving Community Readiness* (pre-

proposal accepted). \$ 200,000.00; Co-PI in collaboration with Dr. Michael Savarese from FGCU and Ms. Jill Schmid from Rookery Bay national Estuarine Research Reserve (unfunded).

Florida DEP/NOAA, 2015: Coastal Partnership Initiative; Project Title – *Southwest Florida's Coastal adaptation in the context of future storm impacts and sea-level rise: A case study investigation of Ft. Myers beach.* \$ 29,782.00 (one year): Co-PI in collaboration with Dr. Michael Savarese at FGCU. Awarded in 03/2015.

FIO Ship time award, 2014: Project Title – *An interdisciplinary study of nearshore shallow water marine ecosystems of Southwest Florida; Teaching/Invertebrate Zoology (ZOO 3205), Marine Ecology (OCB 4633), and Oceanography (OCE 3008).* \$15,450.00 equivalent ship time (2014-2015). Co-PI, in collaboration with Drs. James Douglass and Robert Erdman from FGCU, awarded in 08/2014.

FIO Ship time award, 2014: *The Ocean is our classroom, Bringing Real-Time Oceanography into the classroom.* \$30,000 equivalent ship time (2014-2015). PI, in collaboration with USF, St. Petersburg, awarded in 08/2014.

FIO Ship time award, 2013: Project Title - Establishing a real-time buoy platform off Fort Myers coast, for education and training of undergraduate students in oceanographic field work, data collection and data analysis. \$15,450.00 equivalent ship time (2013-2014). PI, in collaboration with USF, St. Petersburg, awarded in 07/2013.

NOAA/IOOS, 2014 Student Internship: Project Title - West Florida Shelf Ocean Observing Program: Engaging Students in Instrument Deployment, Data collection and Analysis. Student Internship project jointly submitted with SECOORA and USF St. Petersburg. \$8000.00 (NOAA Student Grant for 9 weeks summer internship program), awarded in 03/2014.

Environmental Defense Fund, Washington DC, 2011: Project Title- Hydrodynamic modeling support for an oyster reef restoration project, Atchafalaya Bay, Louisiana, \$50,779.00 (2011-2013), PI, awarded on 11/2011.

Louisiana Optical Network Initiative (LONI), 2010. Project Title- Effectiveness of Hurricanes in Dispersing an Offshore Oil Spill: A Modeling Approach, \$10,000.00, Co-PI, Funded on 08/2010.

Office of Coastal Protection & Restoration (OCPR), Louisiana, 2010. Project Title- WAVCIS: Further contributions to Louisiana coastal research and restoration, \$200,000.00; Awarded (2010-2012), Co-PI.

Louisiana Oil Spill Coordinators Office (LOSCO), 2008 Project Title- Oil spill trajectories along the Louisiana coast- Implementation of a forecast model, \$49575.00 Awarded (2008-2009), Co-PI.

Synergistic Activities

2019 Organized a 2-Day training (March 5-6/2019) on coastal inundation mapping provided by NOAA office of Coastal Management.

2015 Two water quality monitoring buoys were deployed in the Estero Bay in collaboration with

- SECOORA/IOOS, with near real-time data communication capability.
- 2014 Beach monitoring program was initiated for the Fort Myers Beach in collaboration with FDEP/NOAA Coastal Partnership Initiative.
- 2014 Jointly hosted an Undergraduate intern from university of Puerto Rico in May-June 2014, which was supported by Educational Partnership program from NOAA.
- 2013 Implemented a hydrodynamic model for the Atchafalaya Bay, Louisiana, in collaboration with EDF and LSU Baton Rouge.
- 2011 Completed an environmental impact assessment of a shallow shoal dredging project, for coastal restoration along the Louisiana coast; funded by BOEMRE, Department of the Interior.
- 2008 Implemented ADCIRC circulation model for the Gulf of Mexico to support an oil spill injury modeling study; Impacts of Hurricane Katrina and Rita along the Louisiana coast, funded by Louisiana Oil Spill Coordinator's Office (LOSCO).
- 2006 Implemented MIKE 21 spectral wave model for Gulf of Mexico; an extended wave forecasting (84 hours) is available at www.wavcis.lsu.edu
- 2004 Implemented a wave model for the Island of Horta, Azores, Portugal; to study the morphodynamics of pocket beaches of the island.

Conference Presentations

- Harp, B., Pace, M., May, M., Milbrandt, E. and **Jose, F., 2021.** Transport and settlement of oyster larvae in the San Carlos Bay, southwest Florida. *Whitaker Science Symposium*, FGCU, December 4th 2020. Poster Presentation.
- Jose, F.** and Savarese M., 2020. XBEACH: A tool for assessing the vulnerability of barrier islands to the effects of climate change, *Geological Society of America* national conference; October 26-30, Montreal Quebec (Pardee Keynote series oral presentation).
- Gross, A.M., **Jose, F.** and Savarese, M., 2020. Coastal Vulnerability for Sanibel and Captiva islands, *American Shore & Beach Preservation Association* (ASBPA) National Conference, October 13-16 (online poster).
- Bass, D., **Jose, F.**, Richard, J., Mortensen, J.B. and Milbrandt, E., 2020. Oyster larval transport and dispersal modeling within the Charlotte Harbor and Caloosahatchee River Estuaries, 2020 *CHNEP Watershed summit*, Video conference, June 1-2, 2020.
- Carlin, F. and **Jose, F.**, 2020. Storm-driven morphodynamics of a sandy beach in Florida, 33rd Annual *National Conference on Beach Preservation Technology* (February 5-7), Sarasota, Florida.
- Krueger, E.T. and **Jose, F.**, 2019. Response of sea surface properties to Hurricanes in the Gulf of Mexico, *SPIE Annual Conference*, Baltimore, MD, April 14-18, 2019.
- Murphy, K. and **Jose, F.**, Geomorphological evolution of Santa Rosa Island using LIDAR monitoring, *FGCU Whitaker Symposium*, 30th November 2018 (poster).
<https://fgcu.digital.flvc.org/islandora/object/fgcu%3A32457>
- Dye, B. D., J Richard, **F Jose**, JB Mortensen & E Milbrandt. 2018. Impact of salinity variations on oyster (*Crassostrea virginica*) larvae settlement in the Caloosahatchee River Estuary in southwest Florida. *27th Annual Southwest Florida Water Resources Conference*, Fort Myers, FL.
- Dye, B.D. , J Richard, **F Jose**, JB Mortensen & E Milbrandt. 2018. Impact of salinity variations on oyster (*Crassostrea virginica*) larvae settlement in the Caloosahatchee River Estuary in southwest Florida. *Gulf of Mexico Graduate Student Symposium*, Dauphin Island, AL.

- Dye, B. D., J Richard, **F Jose**, E Milbrandt, H Urakawa, R Bartleson, L Haynes, SG Tolley. 2017. Development of biological-physical model to simulate oyster (*Crassostrea virginica*) larval transport in the Charlotte Harbor Estuary. *Université de Bretagne Occidentale, Research Group Meeting*, Brest, France.
- Richard, J., **Jose, F.**, Urakawa, H., Dye, B., Bartleson, R. and Milbrandt, E., 2017. Oyster (*Crassostrea virginica*) Larval Transport Modeling for the Caloosahatchee River/Estuary. *CHNEP Watershed Conference*, March 2017, Punta Gorda, Florida. Talk.
- Krueger, E.T. and **Jose, F.**, 2016. Monitoring coastal upwelling and red tide events from sea surface temperature and ocean color data: A case study from the West Florida Shelf, *American Geophysical Union Fall Conference*, December, 2016, San Francisco, CA.
- McCreary, B. and **Jose, F.**, 2016. Satellite-measured Chlorophyll and Sea surface temperature variability off the Pacific Northwest coast and its influence on the migratory tracks of Elephant Seals – *Mirounga anqustirostris*, *Whitaker Science Symposium*, FGCU December 2016.
- Krueger, E.T. and **Jose, F.**, 2016. Evaluating red tide algal blooms from satellite ocean color imagery: west Florida shelf. *Whitaker Science Symposium*, FGCU December 2016. Oral Presentation.
- Jose, F.**, Savarese, M. and Thompson, G., 2015. Morphological evolution of a sediment-starved low-lying barrier beach: Fort Myers Beach, southwest Florida. Oral presentation: *Geological Society of America Annual Conference*, held at Baltimore, MD, November 2015.
- Connors, O., **Jose, F.**, Savarese, M and Laakkonen, K., 2015. Barrier island vulnerability in response to recent storminess: Dynamics of a longshore divergent cell, Fort Myers beach, southwest Florida. Poster: *Geological Society of America Southeastern section conference*, Chattanooga, TN, March 2015.
- Jose, F** and Murray, C., 2015. Circulation dynamics and its variability for the Estero Bay, Florida. Poster presented at *Gordon Research Conference held at Biddeford, ME*, June 2015.
- Roman, A., **Jose, F.**, 2015. Circulation dynamics of Southwest Florida Shelf, Poster presented at the *STEM Undergraduate Research & Internship Symposium* held at FGCU, 4th December 2015.
- Richards, Z., Lindsey, M., Law, J. and **Jose, F.**, 2014. Bringing real-time met-ocean data into the classroom, *FGCU Research Day*, April, 18, 2014 (*Poster*).
- Murray, C. and **Jose, F.**, 2014. Tidal circulation in Estero Bay: Implementation of a 3-Dimensional flexible mesh hydrodynamic model, *FGCU Research Day*, April 18, 2014 (*Poster*).
- Jose, F.** and Freeman, A.M., 2012. Hydrodynamic modeling support for oyster reef restoration: Atchafalaya Bay, Louisiana. *Restore America's Estuaries Conference*, Tampa, Florida, October 2012 (*Poster*).
- Freeman, A.M., Roberts, H.H. and **Jose, F.**, 2012. Evaluation and creation of Gulf Oyster Habitat. *Restore America's Estuaries Conference*, Tampa, Florida, October 2012 (*oral presentation*).
- Jose, F.**, Stone, G.W. and Kobashi, D., 2010. Hydrodynamics over Tiger and Trinity Shoals off the Louisiana Coast. *State of the Coast 2010 conference*, Baton Rouge, Louisiana (*Poster*).
- Siadatmousavi, S.M., **Jose, F.** and Stone, G.W., 2010. Evaluation of two parameterization of WAM in Gulf of Mexico using parallel unstructured SWAN. *State of the Coast 2010 conference*, Baton Rouge, Louisiana (*Poster*).

- Allahdadi, M., **Jose, F.**, Stone, G.W. and D'Sa, E.J., 2010. Implementation of a 3-Dimensional Hydrodynamic Model for Sabine Bank, United States Gulf Coast. *State of the Coast 2010* conference, Baton Rouge, Louisiana (*Poster*).
- Liu, B., Stone, G.W. and **Jose, F.**, 2010. Beach Topography/Bathymetry Changes to Segmented Breakers at Raccoon Island, Louisiana over an 8-Year Monitoring Period. *State of the Coast* conference, Baton Rouge, Louisiana (*oral presentation*).
- Spaziani, A.L., **Jose, F.** and Stone, G.W., 2010. Hurricane induced shelf dynamics: A Case study for Florida Panhandle, USA. *State of the Coast* conference, Baton Rouge, Louisiana (*Poster*).
- Stone, G.W., Luo, Y., Gibson, W.J., Chen, Y., Siadatmousavi, S.M., Liu, B., Spaziani, A.L., Allahdadi, M. and **Jose, F.**, 2010. WAVCIS: A Met-ocean Observing Network for Supporting coastal Restoration and science along the Louisiana Coast. *State of the Coast conference*, Baton Rouge, Louisiana (*Poster*).
- Freeman, A. M., **Jose, F.** and Roberts, H.H., 2010. Modeling of Hurricane Impacts on a Coastal Lake Bottom: South Central Louisiana. *State of the Coast* conference, Baton Rouge, Louisiana (*oral presentation*).
- Gelpi, C., R. Condrey, J. Fleeger, M. Grippo, G. Stone, **F. Jose**, and S. Dubois., 2010. Are federal sand shoals off Louisiana ecologically important? *State of the Coast* conference, Baton Rouge, Louisiana (*Poster*).
- Freeman, A.M., **Jose, F.**, Roberts, H.H. and Stone, G.W., 2009. Hurricane induced sediment transport modeling in a coastal Louisiana bay, *Coastal & Estuarine Research Federation, Annual conference* November 1-5, 2009, Portland, Oregon (*oral presentation*).
- Jose, F.**, Stone, G.W., Luo, Y., Siadatmousavi, S.M. and Chen, Y., 2009. Met-ocean forecasting system for the northern Gulf of Mexico: WAVCIS. *Northern Gulf Institute Annual Conference*, May 20-21, 2009, Mobile, Alabama, (*Poster*).
- Stone, G.W., **Jose, F.**, Luo, Y., Gibson, W.J., Chen, Y. and Siadatmousavi, S.M., 2009. A new WAVCIS ocean observing system for Breton Sound. *Northern Gulf Institute Annual Conference*, May 20-21, 2009, Mobile, Alabama. *Oral Presentation*.
- Stone, G.W., **Jose, F.** and Luo, Y., 2008. Ocean Observing System for the Louisiana coast: Necessity of Real-Time Data for Emergency Preparedness, *Clean Gulf 2008* conference, San Antonio, Texas, 28-30, October, 2008 (*Poster*).
- Stone, G.W., Luo, Y., **Jose, F.**, Chen, Y., Siadatmousavi, S.M., Kobashi, D. and Liu, B., 2008. WAVCIS: Wave-Current-Surge Information System, *World Summit – Ocean Observing Systems*, St. John's, Canada, 19-22, October, 2008 (*Poster*).
- Luo, Y., **Jose, F.**, Chen, Y., Siadatmousavi, S.M., Liu, B. and Stone, G.W., 2008. A Real Time Ocean Observing System for The Louisiana Coast, *American Geophysical Union Fall Meeting*, San Francisco, USA, December 2008 (*Poster*).
- Spaziani, A.L., Stone, G.W., Liu, B., and **Jose, F.** (2008) Sedimentology, stratigraphy and geophysics of an inner shelf shoal off Choctawhatchee Bay, Florida, USA - *Geological Society of America, Abstracts Proceedings*, Houston, Texas; October 5-9, 2008.
- Khalil, S.M., Stone, G.W., Kobashi, D. and **Jose, F.**, 2008. Sand prospects and hydrodynamic implications of dredging an offshore shoal in southern Louisiana, USA. *American Shore & Beach Preservation Association, Annual conference*, Chicago, Illinois.
- Jose, F.**, Stone, G.W. and Kobashi, D., 2008. Impact of cold fronts on the hydrodynamics of Sabine bank, off Louisiana-Texas coast, USA. *Ocean Science* conference, March 2008, Orlando, USA (*Poster*)

- Kobashi, D., Stone, G.W., **Jose, F.** and Spaziani, A., 2008. Dynamics of heterogeneous sediments within the bottom boundary layer over a transgressive shoal influenced by fluvial sediments and winter storms: south-central Louisiana, USA. *Ocean Science* conference, March 2008, Orlando, USA (*Poster*)
- Condrey, R., Stone, G.W., Finnegan, C., Fleeger, J., Dubois, S., Gelpi, M., Evers, E.D., Kobashi, D. and **Jose, F.**, 2008. Physical and biological research efforts to evaluate the use of offshore sand for Louisiana coastal and barrier island restoration. *Ocean Science* conference, March 2008, Orlando, USA (*Poster*)
- Jose, F.**, Stone, G.W. , Kerper, D.R., Baek, S., Luo, Y. And Chen, Y. 2006. Implementation of a finite element spectral wave model for the Gulf of Mexico. *Oral Presentation. American Geophysical Union fall meeting*, San Francisco, USA, December 2006.
- Stone, G. W., Condrey, R., Fleeger, J., Khalil, S., Kobashi, D., **Jose, F.**, Dubois, S.F., Evers, D.E., Gelpi, C.G. and Grippo, M. Environmental Investigation of Long-Term use of Ship Shoal Sand Resources, *3rd National Conference on Coastal and Estuarine Habitat Restoration*, December 9-13, 2006, New Orleans, USA (*Poster*).
- Jose, F.**, Kochuparampil, A.J., Haugen, V.E.J., and Evensen, G., General circulation and upwelling in the Arabian Sea- Application of a medium resolution nested model, Poster presentation. International Union of Geology and Geophysics, IUGG 2003, Sapporo, Japan, July 2003 (*Poster*)
- Jose, F.**, Kurian, N.P. and Prakash, T.N. Innershelf sediment transport and sorting along a heavy sand enriched coast, SW India. *Oral presentation*. Spring 2001 Conference of American Geophysical Union, Boston, MA, May 2001. (*Chair: Gregory W. Stone, Late*)
- Jose, F.**, Paul Samuel and Kurian, N. P. Wind speed and SWH distribution from Altimeter data. *Oral presentation*. Conference on Ports and Engineering in Developing Countries (COPEDEC V), Cape Town, South Africa. April 1999
- Kurian, N.P., Prakash, T.N and **Jose, F.** Hydrodynamic Processes along Quilon coast. *Oral Presentation*. International Conference in Ocean Engineering, Chennai, India. May 1996.
- Prakash, T.N., Kurian, N. P and **Jose, F.** Micro-morphological characteristics of offshore placers and their transport with reference to wave induced processes along the SW coast of India. Proceedings: *Quaternary Paleo-oceanography/ Paleoclimate of the Arabian Sea*, Geological Society of India, Annual Convention, Mangalore. 1996

Courses Taught/Developed

- EVR 6936 - GIS and Remote Sensing (FGCU)
- OCE 4930 – GIS and Coastal Remote Sensing (FGCU)
- OCS 4024 – Coastal Morphodynamics (LSU)
- OCP 3002C - Physical Oceanography (FGCU)
- EVS 6920 – Coastal Upwelling Dynamics (Graduate Seminar, FGCU)
- OCE 3008C – Oceanography (FGCU)
- ESC 1000C – Introduction to Earth Science (FGCU)
- ISC 4930 - Current Topics, Satellite Oceanography (FGCU)
- BSC 4910C- Senior Project Research in Biology (FGCU)
- OCE 1001C - Marine Systems (FGCU)
- OCP 4284C- Coastal Hydrodynamics (FGCU)

Modeling Skills

ADCIRC, SWAN, MIKE 21 & MIKE 3

Programming: FORTRAN 90 & Matlab

Software Packages: ArcGIS, SMS, Wimsoft and SANDS,

Research Fellowships & Awards

- ONR/NRL Summer Faculty Fellowship, Stennis Space Center, Mississippi, 2017
- Portuguese Science & Technology/IMAR Post-Doctoral Fellowship 01/2002-11/2004
- EURISY (Vigo/Spain) Travel Fellowship, July/2003
- PECS (Hamburg/Germany) Fellowship September/2002
- NERCI (India) Post-Doctoral Fellowship 01/2001- 12/2001
- NERSC (Bergen/Norway) Young Scientist Fellowship 2001
- IGCP (Durham/UK) Travel Fellowship, September/2001
- Berkner (Boston/USA) AGU Travel Fellowship, May/2001
- COPEDEC (Cape Town/South Africa) Travel Fellowship, April/1999
- NERSC (Bergen/Norway) Nansen Student Fellowship, August/1997
- CSIR (Govt. of India) Junior & Senior Research Fellowship (1994 - 2000)
- CUSAT (India) Graduate Merit Scholarship (1993)

Collaborators

Dr. Michael Savarese, Florida Gulf Coast University

Dr. Dong S. Ko, Naval Research Laboratory, Stennis Space Center, MS

Dr. Y. Peter Sheng, University of Florida

Dr. Mati Kahru, Scripps Institution of Oceanography, UCSD, San Diego, CA

Dr. David C. Fugate, Florida Gulf Coast University

Dr. Prasad Kumar Bhaskaran, Indian Institute of Technology, Kharagpur, India

Dr. Ping Wang, University of South Florida, Tampa, FL

Dr. Eurico D'Sa, CSI, Louisiana State University, Baton Rouge, LA

Dr. Daijiro Kobashi, Texas A&M University, College Station, TX

Dr. Ana Maria Martins, University of Azores, Horta, Portugal

Dr. N.P. Kurian, National Centre for Earth Science Studies, Kerala, India

Graduate Students Advised/Mentored

Andrew M. Gross (MS Environmental Science, FGCU)

Christina Weisbruch (MS Environmental Science, FGCU)

Erica T. Krueger (M.S Environmental Science FGCU)

Bass Dye (M.S Environmental Science FGCU)

David Kluesner (M.S committee at FGCU)

Walter S. Guidroz, 2010 (Ph.D Oceanography LSU)

Cecily Patin, 2010 (MS Civil Engineering, LSU)

Daijiro Kobashi, 2009 (Ph.D, Oceanography LSU)

Undergraduate Students mentored

Brooks Harp (B.S. Marine Science, Fall 2020)
Miranda Pace (B.S. Marine Science, Fall 2020)
Emma Kelly (B.S. Marine Science, Summer 2020, FGCU)
Anthony Russo (B.S. Marine science, Summer 2020, FGCU)
Hafez Ahmad (International Exchange Student, Bangladesh, Fall 2019, FGCU)
Katherine Arnett (B.S Marine Science, spring 2019, FGCU)
Frank Carlin (B.S Marine Science, spring 2019, FGCU)
Kelly Murphy (B.S Marine Science, Fall2018, FGCU)
Andrew Gross (BS Marine Science, spring 2018, FGCU)
Glenn T. Thompson (BS Marine Science, fall 2017 FGCU)
Natalie J. Harvey (BS Marine Science, fall 2017 FGCU)
Shanna Stingu (BS Marine Science, fall2017 FGCU)
Erica Krueger (BS Marine Science, fall 2016 FGCU)
Bridgite McCreary (BS Biological Science, fall 2016 FGCU)
Olga Connors (BS Marine Science, fall 2015 FGCU)
Alexander Roman (B.A Environmental Studies, FGCU)
Christian Duguay (B.S Marine Science, FGCU)
Irma Drndar (BS Marine Science, FGCU)
Lexi Siegle (BS Marine Science, FGCU)
Pedro Matos-Llavona (NOAA/IOOS Summer Fellowship,
BS Geosciences, University of Puerto Rico, Mayaguez)
Christopher Murray (BA Environmental Studies, FGCU)
Zachariah Richards (B.S. Marine Science, FGCU)
Michael Lindsey (BS Marine Science, FGCU)

Research Manuscripts Reviewed/Edited for the Journals

Ocean Science, Journal of the European Geophysical Union
Regional Studies in Marine Science
Journal of Hydro-Environment Research
Continental Shelf Research
Estuarine Coastal and Shelf Sciences
International Journal of Climatology
Journal of Coastal Research
Journal of Coastal Engineering
Natural Hazards (6 manuscripts reviewed since 2014)
Ocean Engineering
Journal of Coastal Research
Journal of Marine Systems
Meteorological Applications, Wiley
Journal of Coastal Conservation
Journal of Operational Oceanography (Taylor & Francis)
Current Science
Marine Geology