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 Director, Coastal and Deltaic Systems Modeling
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EDUCATION

University of New Orleans	New Orleans, LA	Engineering and Applied Sciences	Ph.D., 2002
	New Orleans, LA	Civil and Environmental Engineering, Water Resources	MS, 1999
Louisiana State University	Baton Rouge, LA	Civil and Environmental Engineering	BS, 1997
Higher Technical Institute	Lefkosia, Cyprus	Civil Engineering	HND, 1992

RESEARCH INTERESTS

Coastal, estuarine, and fluvio-deltaic hydrodynamics and morphology, coastal processes and geomorphology, landscape evolution, dynamics of coastal barrier systems.

PROFESSIONAL EXPERIENCE

The Water Institute	Director of Coastal and Deltaic Systems Modeling	2019–Present
University of New Orleans	Research Professor <i>Gratis</i>	2019–Present
	Olga Braunstein Endowed Professor in Sedimentary Geology	2017–2019
University of New Orleans, Earth and Environmental Sciences	Associate Professor	2012–2019
Pontchartrain Institute for Environmental Sciences, University of New Orleans	Director	2013–2019
University of New Orleans, Earth and Environmental Sciences	Assistant Professor	2007–2012
Pontchartrain Institute for Environmental Sciences, University of New Orleans	Assistant Professor <i>Research</i>	2005–2007
	Post-Doctoral Associate	2002–2004

University of New Orleans, College of Engineering	Adjunct Professor	2002–2004
University of New Orleans, College of Science	Adjunct Professor	2002–2004

PROFESSIONAL SOCIETY MEMBERSHIPS

- American Geophysical Union
- Coastal and Estuarine Research Federation
- American Society of Civil Engineers
- Environmental Water Resources Institute
- Geological Society of America

AWARDS AND HONORS

- Reviewer Distinction Recognition, Estuarine Coastal and Shelf Science, Elsevier, 2018
- Outstanding Reviewer Award, Estuarine Coastal and Shelf Science, Elsevier, 2017
- Olga Braunstein Endowed Professorship in Sedimentary Geology, 2017–2019
- Reviewer Distinction Recognition, Journal of Hydrology, Elsevier, 2008
- Team Achievement Award, presented by the U.S. Army Corps of Engineers and the State of Louisiana for contribution to the Louisiana Coastal Area Ecosystem Restoration Study, 2005
- Crescent City Doctoral Fellowship, University of New Orleans, 2000–2002
- Freeport McMoRan Graduate Research Assistantship, Freeport McMoRan, Inc., 1999–2001
- Urban Water Research Assistantship, Environmental Protection Agency, 1997–1999

TEACHING EXPERIENCE

Taught introductory and advance senior and graduate level courses at the University of New Orleans, College of Sciences, Department of Earth and Environmental Sciences, and College of Engineering, Department of Civil and Environmental Engineering

Coastal Processes and Geomorphology (2008–2021)

Introduction to Physical Oceanography (2012–2019)

Coastal Restoration Management (2015–2019)

Data Analysis and Statistical Methods in Earth and Environmental Sciences (2015–2017)

Earth Surface Processes and Environment Dynamics (2011–2018)

Barrier Island Dynamics Seminar (2010–2018); Physical Geology (2007–2011)

Methods in Earth and Environmental Sciences (2008 – 2016)

Physical Geology (2007 – 2011)

Hydrology (2003–2005) and Hydraulic Engineering Systems (2003–2005).

Mentored high-school (HS), undergraduate (UG), graduate students (MS; PhD), research associates (RA) and post-doctoral researchers (PD). From 2007 to 2024 mentored 3 HS, 9 UG, 14 MS, 10 PhD (5 as primary advisor and 5 as secondary advisor), 3 RA, and 3 PD.

COMMUNITY SERVICE

Committee member for MS and PhD students, University of New Orleans and other universities	35 (UNO) 3 (LSU) 1 (BU)	2005–Present
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NOTABLE PROJECTS

Principal and Modeling/Morphodynamic Evolution of the Assateague-Chincoteague Coastal System, Virginia Eastern Shore	2019–2022
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The Water Institute

Developed and used a coupled wave-flow-sediment model (Delft3D) with multiclass sediment to evaluate the hydrodynamic controls and local-to-regional processes contributing to the morphologic evolution of the coast and evaluate restoration options to inform planning by Chincoteague Island community.

Modeling Lead/Lowermost Mississippi River Management Program	Current
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Coastal Protection and Restoration Authority

This is large-scale program with the objective of moving toward a more Mississippi River holistic management philosophy that relies on a science-based decision-making framework. Numerical and physical models are powerful scientific tools that serve as a foundation to this framework along with focused observational data collection and the synthesis and analysis of the large but under-utilized trove of historical river datasets.

Principal Investigator/Hurricane Sedimentation on Salt Marshes: Extent, Provenance, and Processes	Current
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The Water Institute

Collaborative study (with Boston University, Virginia Institute of Marine Science) to understand sediment provenance and processes driving mineral sedimentation onto salt marshes using storm surge and morphological modeling (Delft3D FM ADCIRC) assessing storm-induced sedimentation in the Sapelo Island backbarrier basin, and the coastal reaches of the Altamaha River.

Principal Investigator/Mid-Breton Sediment Diversion Environmental Impact statement (EIS) support and evaluation of diversion operation	Current
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The Water Institute

Numerical modeling to assess impacts of the planned Mid-Breton Sediment Diversion in southeast Louisiana on geomorphology, salinity, flooding, and water quality in the receiving area as well as the Mississippi River and delta. Technical lead for various analyses including water and sediment budget, sedimentation and dredging, conveyance analysis, impacts to marine mammals, and river, delta, and receiving basin impacts resulting from crevassing in the lowermost Mississippi River.

Team Member/SmartPort

Current

Economic Development Agency and Port of New Orleans

Goal of the project is to better understand shoaling dynamics in the Mississippi River, to develop a technology tool able to share and forecast shoaling data with river operators and researchers.

INVITED SCHOLARLY PRESENTATIONS

2023: US Army Corps of Engineers, New Orleans District, New Orleans LA

2022: Louisiana State University, Baton Rouge LA

2022: University of Hawaii, Monoa

2018: U.S. Army corps of Engineers, New Orleans District, New Orleans LA.

2017: Naval Research Laboratory, Physical Sciences, Stennis Space Center, MS

2016: Deltares and Technical University Delft (TUDelft), Delft, The Netherlands

2016: Tulane University, Department of Earth and Environmental Sciences, New Orleans LA

2016: Universidade Federal de Santa Catarina, Centro de Filosofia e Ciências Humanas, Florianopolis, Santa Catarina, Brazil

2016: University of Southern Mississippi, Dept. of Marine Sciences, Stennis Space Center, MS

2015: Louisiana State University, Dept. of Oceanography and Coastal Studies, Baton Rouge LA

2013: Louisiana State University, School of the Coast and Environment, Baton Rouge, LA

2010: US Army Corps of Engineers, Engineering Research and Development Center, Coastal Hydraulics Laboratory, Vicksburg, MS

2009: US Army Corps of Engineers, New Orleans District, Hydraulics and Hydrology Division, New Orleans LA

2009: Louisiana Universities Marine Consortium (LUMCON), Cocodrie, LA

2009: American Society of Civil Engineers, Annual Conference, Baton Rouge Chapter.

2005, 2006: Louisiana State University, School of the Coast and Environment, Baton Rouge, LA

Journal review: Journal of Geophysical Research – Oceans Earth Surface Dynamics, Geophysical Research Letters, Journal of Coastal Research, Journal of Hydraulic Engineering, Journal of Hydrology, Journal of Hydraulic Research, Journal of Climate Research, Nature Climate Research, Continental Shelf Research, Estuarine Coastal and Shelf Science, Estuaries and Coasts, Journal of Hydrologic Engineering, Journal of Marine Geology, Journal of Coastal Research, Ecological Engineering.

Proposal Review: NOAA Sea Grant (Louisiana, MS, and AL – 2008, 2010–2011), NSF – Geomorphology and Earth Surface Dynamics Program (2008-present), NSF – Marine Geology program (2009–Present), NMFS Cooperative Research Program (2011–13), Louisiana CREST Program (2005–2008). Hudson River Foundation (2018–2019)

2013 – 2016 – Served on the State of the Coast (SOC) Program Committee

- 2013 – Member of the Operational Science Advisory Team for Coast Guard during the Deepwater Horizon
- 2012 – 2017, Sciences and Education Advisory Council member for the Louisiana Universities Marine Consortium (LUMCON)
- 2011 – 2013, Served in advisory capacity for the Bayou St. John Alliance group
- 2010 – 2015, NASA Develop Program External Reviewer
- 2010 – Appeared on several news casts, interviews, and provided service to organizations, news agencies, and NGOs regarding the oil spill.
- 2010 – U.S. Coast Guard advisory role in booming operations (Grand Isle Emergency Response unit) – guided booming operations in the vicinity of tidal inlets and in Barataria Bay during the BP Deepwater Horizon Oil Spill.
- 2010 – Member of the SERT Advisory Committee during the BP Deepwater Horizon Oil Spill, Office of Coastal Protection and Restoration and LSU
- 2009 – Invited participant on table discussion on Desktop Modeling, April 9, LSU Coast and Environment Building.
- 2007 – Served on Multiple Lines of Defense Assessment Team, Lake Pontchartrain Basin Foundation
- 2006 – served on advisory board for the development of the Bayou St. John Comprehensive Management Plan
- 2006 – Served as advisor for scientific development regarding State of Louisiana restoration initiatives, Coastal Louisiana Ecosystem Assessment and Restoration Program (CLEAR), LSU
- 2006 - Conceptual Ecological Modeling Workshop, Reducing flood damage in Coastal Louisiana, Communities, Culture, commerce, CLEAR Program, Louisiana State University.
- 2005 – Served on the Comprehensive Habitat Management Plan, Lake Pontchartrain Basin Foundation

PUBLISHED WORKS

For a full list of publications, please visit [Ioannis' Google Scholar page](#).

Peer-Reviewed Publications

- Hein, C., Connell, J., FitzGerald, D., Georgiou, I.Y., Hughes, Z., & King, K. (2024). Vertical accretion trends project doughnut-like fragmentation of saltmarshes. *Communications Earth & Environment*, 5(1), 74.
- Georgiou, I.Y., FitzGerald, D., & Hanegan, K. (2024). Storm and tidal interactions control sediment exchange at mixed-energy coastal systems. *PNAS Nexus*, 3, 1–11.
- Courtois, A., Bentley, S., Maloney, J., Xu, K., Chaytor, J., Georgiou, I.Y., Miner, M., Obelcz, J., Jafari, N., & Damour, M. (2024). Short-term sediment dispersal on a large retreating coastal river delta via 234Th and 7Be sediment geochronology: The Mississippi River delta front. *Water*, 16(3), 463.
- Figueredo, N., Bentley, S., Chaytor, J., Xu, K., Jafari, N., Georgiou, I.Y., Damour, M., Duxbury, J., Obelcz, J., & Maloney, J. (2024). Sedimentary processes and instability on the Mississippi River delta front near the shipwreck of the SS Virginia. *Water*, 16(3), 421.
- Brogdon, J., Baer, A., Constant, G., Glaspie, C., Miner, M., Georgiou, I.Y., & Dance, M. (2024). Variability in estuarine habitat use of a threatened species in the northern Gulf of Mexico: Implications for coastal restoration. *Global Ecology and Conservation*, 49.
- Hanegan, K., FitzGerald, D., Georgiou, I.Y., & Hughes, Z. (2023). Long-term sea level rise modeling of a basin-tidal inlet system reveals sediment sinks. *Nature Communications*, 14(1), 7117.
- Liu, B., J. E., Messina, F., Baustian, M. M., Maiti, K., Huang, W., & Georgiou, I. Y. (2023). Dissolved organic carbon dynamics and fluxes in Mississippi-Atchafalaya deltaic system impacted by an extreme flood event and hurricanes: a multi-satellite approach using Sentinel-2/3 and Landsat-8/9 Data, *Frontiers in Marine Science*, Volume 10 – 2023 <https://doi.org/10.3389/fmars.2023.1159367>
- Georgiou, I.Y., Messina, F., Sakib, M. M., Zou, S., Foster-Martinez, M., Bregman, M., Hein, C. J., Fenster, M. S., Shawler, J. L., McPherran, K., & Trembanis, A. C. (2023). Hydrodynamics and sediment-transport pathways along a mixed-energy spit-inlet system: A modeling study at Chincoteague Inlet (Virginia, USA). *Journal of Marine Science and Engineering*, 11(5), Article 5.

- Souza, P., Georgiou, I.Y., FitzGerald, D., Hughes, Z., Howes, N., & Kulp, M. (2023). Hydrodynamic controls on sedimentary facies of tidal point bars: A case study in the Georgia coastal plain, USA. *Sedimentology*, 70(3), 895–926.
- Hemmerling, S. A., DeMyers, C., Parfait, J., Piñero, E., Baustian, M. M., Bregman, M., Di Leonardo, D., Esposito, C., Georgiou, I.Y., Grismore, A., Jung, H., McMann, B., & Miner, M. D. (2023). A community-informed transdisciplinary approach to coastal restoration planning: Maximizing the social and ecological co-benefits of wetland creation in Port Fourchon, Louisiana, USA. *Frontiers in Environmental Science*, 11.
- Bloemendaal, H., FitzGerald, D., Hughes, Z., Novak, A., & Georgiou, I. Y. (2023). Reevaluating the wave power-salt marsh retreat relationship. *Scientific Reports*, 13(1), 2884.
- Caffey, R., Petrolio, D., Georgiou, I. Y., Miner, M., Wang, H., & Kime, B. (2022). The economics of sediment quality on barrier shoreline restoration. *Journal of Environmental Management*, 319.
- Bloemendaal, L., FitzGerald, D., Hughes, Z., Novak, A., & Georgiou, I. Y. (2022). Dispelling myths concerning the wave power-marsh retreat relationship. *Research Square*.
- Cadigan, J., Jafari, N., & Georgiou, I. Y. (2022). Mobilized shear strengths of Mississippi River Delta Front sediments during submarine landslides. *Geo-Marine Letters*, 42(2), 9.
- FitzGerald, D., Hughes, Z., Staro, A., Hein, C., Sakib, M., Georgiou, I. Y., & Novak, A. (2022). Following the sand grains. *Journal of Marine Science and Engineering*, 10(5).
- FitzGerald, D. M., Hein, C. J., Connell, J. E., Hughes, Z. J., Georgiou, I. Y., & Novak, A. B. (2021). Largest marsh in New England near a precipice. *Geomorphology*, 379, 107625.
- Bondoni, M., Georgiou, I. Y., & Novak, A. (2021). Chapter 14: Marsh edge erosion. In D. FitzGerald & Z. Hughes (Eds.), *Marshes: Function, Dynamics and Stresses*.
- Torres, J., Kulp, M. A., FitzGerald, D. M., Georgiou, I. Y., & Lepper, K. (2020). Geomorphic and temporal evolution of a Mississippi delta flanking barrier island: Grand Isle, LA. *Marine Geology*, 430, 106341.
- FitzGerald, D., Hughes, Z., Georgiou, I. Y., Black, S., & Novak, A. (2020). Enhanced, climate-driven sedimentation on salt marshes. *Geophysical Research Letters*, 47(10), 9.
- FitzGerald, D., Ryerson, O., Hughes, Z., Black, S., Georgiou, I. Y., Hein, C., & Novak, A. (2020). Long-term variability in inorganic sediment contributions to the Great Marsh, Massachusetts. *Journal of Coastal Research*, 95, 490–494.
- Esposito, C. R., Georgiou, I. Y., & Straub, K. M. (2020). Flow loss in deltaic distributaries: Impacts on channel hydraulics, morphology, and stability. *Water Resources Research*, 56(5).
- Maloney, J. M., Bentley, S. J., Xu, K., Obelcz, J., Georgiou, I. Y., Jafari, N. H., & Miner, M. D. (2020). Mass wasting on the Mississippi River subaqueous delta. *Earth-Science Reviews*, 200, 103001.
- Shawler, J., Hein, C., Canuel, E., Kaste, J., Fitzsimons, G., Georgiou, I. Y., & Willard, D. (2019). Tidal erosion and upstream sediment trapping modulate records of land-use change in a formerly glaciated New England estuary. *Anthropocene Coasts*, 2(1), 340–361.
- Bondoni, M., Georgiou, I. Y., Roelvink, D., & Oumeraci, H. (2019). Numerical modelling of the erosion of marsh boundaries due to wave impact. *Coastal Engineering*, 152, 103514.
- Hein, C. J., Fallon, A. R., Rosen, P., Hoagland, P., Georgiou, I. Y., FitzGerald, D. M., Morris, M., Baker, S., Marino, G. B., & Fitzsimons, G. (2019). Shoreline dynamics along a developed river mouth barrier island: Multi-decadal cycles of erosion and event-driven mitigation. *Frontiers in Earth Science*, 7, 103.
- FitzGerald, D. M., J. Hein, C., Hughes, Z. J., Kulp, M. A., Georgiou, I. Y., & Miner, M. D. (2018). Runaway barrier island transgression concept: Global case studies. In L. J. Moore & A. B. Murray (Eds.), *Barrier Dynamics and Response to Changing Climate* (pp. 3–56). Springer International Publishing.
- Maloney, J. M., Bentley, S. J., Xu, K., Obelcz, J., Georgiou, I. Y., & Miner, M. D. (2018). Mississippi River subaqueous delta is entering a stage of retrogradation. *Marine Geology*, 400, 12–23.
- Carney, J., Twilley, R., Agre, C., Hird, J., Georgiou, I., & Sheldon, J. (2018). The giving delta. In *Sustainable Coastal Design and Planning* (pp. 239–254). CRC Press.
- Maloney, J. M., Bentley, S. J., Xu, K., Obelcz, J., Georgiou, I. Y., & Miner, M. D. (2018). Mississippi River subaqueous delta is entering a stage of retrogradation. *Marine Geology*, 400, 12–23.
- FitzGerald, D. M., J. Hein, C., Hughes, Z. J., Kulp, M. A., Georgiou, I. Y., & Miner, M. D. (2018). Runaway barrier island transgression concept: Global case studies. In L. J. Moore & A. B. Murray (Eds.), *Barrier Dynamics and Response to Changing Climate* (pp. 3–56). Springer International Publishing.
- Darnell, K. M., Carruthers, T. J. B., Biber, P., Georgiou, I. Y., Michot, T. C., & Boustany, R. G. (2017). Spatial and temporal patterns in *Thalassia testudinum* leaf tissue nutrients at the Chandeleur Islands, Louisiana, USA. *Estuaries and Coasts*, 40(5), 1288–1300.

- Obelcz, J., Xu, K., Georgiou, I. Y., Maloney, J., Bentley, S. J., & Miner, M. D. (2017). Sub-decadal submarine landslides are important drivers of deltaic sediment flux: Insights from the Mississippi River Delta Front. *Geology*, 45(8), 703–706.
- Keller, G., Bentley, S. J., Georgiou, I. Y., Maloney, J., Miner, M. D., & Xu, K. (2017). River-plume sedimentation and ²¹⁰Pb/⁷Be seabed delivery on the Mississippi River delta front. *Geo-Marine Letters*, 37(3), 259–272.
- FitzGerald, D., Georgiou, I. Y., & Kulp, M. (2016). Deltas. In J. Harff, M. Meschede, S. Petersen, & J. Thiede (Eds.), *Encyclopedia Geosciences* (p. 17).
- Hein, C. J., FitzGerald, D. M., de Souza, L. H. P., Georgiou, I. Y., Buynevich, I. V., Klein, A. H. da F., de Menezes, J. T., Cleary, W. J., & Scolaro, T. L. (2016). Complex coastal change in response to autogenic basin infilling: An example from a sub-tropical Holocene strandplain. *Sedimentology*, 63(6), 1362–1395.
- FitzGerald, D., Georgiou, I. Y., & Miner, M. (2014). Chapter 12: Estuaries and tidal inlets. In G. Masselink & R. Gehrels (Eds.), *Environments and Global Change* (pp. 356–465). Wiley Press.
- Kulp, M., FitzGerald, D., & Georgiou, I. Y. (2014). The Mississippi River Delta. In *Encyclopedia of the worlds' deltas* (p. 17). Elsevier.
- Hanegan, K., & Georgiou, I. Y. (2014). Tidal modulated flow and sediment flux through Wax Lake Delta distributary channels: Implications for delta development. *International Association of Hydrological Sciences*, 367, 391–398.
- El Kheiahy, K., Mccorquodale, J., Georgiou, I. Y., & Meselhe, E. (2014). Bed forms resistance dependency on numerical model grid size spatial resolution. *Journal of Spatial Science*, 59, 363–372.
- Esposito, C. R., Georgiou, I. Y., & Kolker, A. S. (2013). Hydrodynamic and geomorphic controls on mouth bar evolution. *Geophysical Research Letters*, 40(8), 1540–1545.
- Barbier, E. B., Georgiou, I. Y., Enchelmeyer, B., & Reed, D. J. (2013). The value of wetlands in protecting southeast Louisiana from hurricane storm surges. *PLoS ONE*, 8(3), e58715.
- Meselhe, E., Georgiou, I. Y., Allison, M., & McCorquodale, A. (2012). Delta building diversions: Numerical modeling of hydrodynamics and sediment transport in Lower Mississippi River near Myrtle Grove River Bend. *Journal of Hydrology*, 472, 340–354.
- Grzegorzewski, A. S., & Georgiou, I. Y. (2011). Sediment transport trends along an island terminus: A model study during storms at the northern Chandeleur Islands. In P. Wang, J. Rosati, & T. Roberts (Eds.), *Coastal Sediments* (Vol. 3, pp. 2198–2211). World Scientific Publishing Company.
- Georgiou, I. Y., Kulp, M., FitzGerald, D., & Miner, M. (2010). The Louisiana coastline. In E. C. F. Bird (Ed.), *Encyclopedia of the World's Coastal Landforms* (pp. 61–68). Springer.

Technical Reports

- Messina, F., Georgiou, I. Y. (2024). *Oblique Aerial Photo Assessment of the Louisiana Barrier Shoreline for the BICM Program Phase 3*. The Water Institute. Prepared for and funded by the Coastal Protection and Restoration Authority. Baton Rouge, LA.
- Bregman, M., Messina, F., Miner, M., Georgiou, I. Y., & Wilson, C. (2023). *Inter-model comparisons between physical and numerical models: Comparisons of future projections between the numerical Basin Wide Model Version 4 and the Lower Mississippi River Physical Model (P-00407-01; p. 53)*. The Water Institute. Produced for and funded by the Coastal Protection and Restoration Authority.
- Messina, F., Georgiou, I. Y., Baustian, M., Dahl, T., Ryder, J., Miner, M., & Health, R. (2023). *Lowermost Mississippi River Management Program: Real-time forecasting model development work plan* (ERDC SR 23-8; p. 51). U.S. Army Corps of Engineers. Prepared for the Coastal Protection and Restoration Authority.
- Georgiou, I. Y., Bregman, M., Messina, F., Di Leonardo, D., Wang, Y., Zou, S., Khalil, S., Raynie, R., Swartz, J., & Miner, M. (2023). *Sediment infilling rate of Lowermost Mississippi River borrow pits and impacts on downstream dredging*. Baton Rouge, LA: The Water Institute of the Gulf, Prepared for the Coastal Protection and Restoration Authority (CPRA) under Task Order 72.2.
- Georgiou, I. Y., Dalyander, P., Hemmerling, S., Cobell, Z., & Diaz, O. (2023). *Coastal Master Plan: Supplemental material H6. 6: Restoration impacts on surge and risk-Barataria Barrier Islands* (2023 Coastal Master Plan, p. 33). Coastal Protection and Restoration Authority.
- Bartlett, M., Misra, S., Roberts, H., Geldner, N., McMann, B., Saharia, A., Zou, S., Johnson, D., Villarini, G., Kim, H., Yuill, B., Wang, Y., Georgiou, I. Y., Fischbach, J., Nadal-Caraballo, N., & Schmied, L. (2023). *Compound flood transition zone pilot study for the Amite River Basin* (p. 132) [Final]. Louisiana Watershed Institution.

- Georgiou, I. Y., Dalyander, S., Hemmerling, S., Cobell, Z., & Diaz, O. (2023). *Draft Coastal Master Plan: Supplemental material H6. 6: Restoration impacts on surge and risk-Barataria Barrier Islands* (p. 33) [Draft]. Coastal Protection and Restoration Authority.
- Hemmerling, S., Georgiou, I. Y., Cobell, Z., Diaz, O., Fischbach, J., Johnson, D., & Wang, J. (2023). *Draft Coastal Master Plan: Supplemental material H6. 7: Restoration impacts on surge and risk-Coastal forests* (2023 Draft Coastal Master Plan, p. 67) [Version 01]. Coastal Protection and Restoration Authority.
- Georgiou, I. Y., Foster-Martinez, M., Fitzpatrick, C., Jarrell, E., Bridgeman, J., Lee, D., Miner, M., Dalyander, S., & Dong, Z. (2023). *Coastal Master Plan: Attachment D4: Barrier island model improvements* (Version 3; 2023 Coastal Master Plan, p. 41). Coastal Protection and Restoration Authority.
- Bregman, M., Messina, F., Miner, M., Georgiou, I. Y., & Wilson, C. S. (2023). *Inter-model comparisons between physical and numerical models: Comparisons of future projections between the numerical Basin Wide Model Version 4 and the Lower Mississippi River Physical Model* (No. P-00407-01). Baton Rouge, LA: Prepared for the Louisiana Coastal Protection and Restoration Authority by The Water Institute and Louisiana State University under Task Order 69.
- Dalyander, S., Foster-Martinez, M., DiLeonardo, D., Georgiou, I. Y., Miner, M., & Fitzpatrick, C. (2023). *Coastal Master Plan Louisiana Coastal Master Plan Barrier Island Tidal Inlet (BITI) Module and Barrier Island Digital Elevation Model (ICM-BI) Updates* (Version 1; 2023 Coastal Master Plan, p. 70). Coastal Protection and Restoration Authority.
- Messina, F., Bregman, M., Zou, S., Georgiou, I. Y., Dalyander, S., & Miner, M. (2022). *Lake Borgne Gulf Sturgeon monitoring and habitat characterization*. The Water Institute of the Gulf. Produced for and funded by Coastal Protection and Restoration Authority under Task Order 81.
- Bregman, M., Jung, H., Liu, B., Baustian, M. M., Messina, F., & Georgiou, I. Y. (2022). *Basin Wide Model Version 4 Sensitivity Analysis* [Technical Memorandum]. The Water Institute. Produced for the Louisiana Coastal Protection and Restoration Authority under Task Order 77.
- Georgiou, I. Y., Messina, F., Jung, H., & Baustian, M. M. (2022). *Limitations and Uncertainties for the Basin Wide model Version 4 Used for the Mid-Breton Environmental Impact Statement*. Baton Rouge, LA: The Water Institute of the Gulf. Produced for and funded by the Coastal Protection and Restoration Authority under Task Order 77.
- Messina, F., Georgiou, I. Y., Bregman, M., Holm, G. O., & Marino, R. (2021). *Analysis of existing and predicted coastal water surface elevation trends in Breton Sound Basin: In support of the Mid-Breton Sediment Diversion Environmental Impact Statement*. Baton Rouge, LA.: The Water Institute of the Gulf. Prepared for and Funded by the Coastal Protection and Restoration Authority under Task Order 77.
- Georgiou, I. Y., Messina, F., Bregman, M., Jung, H., & Liu, B. (2021). *Approach to limit crevassing in the Basin Wide model Mid-Breton Production Runs using existing and additional simulations*. Baton Rouge, LA: The Water Institute of the Gulf.
- Dalyander, S., Foster-Martinez, M., DiLeonardo, D., Georgiou, I., Miner, M., & Fitzpatrick, C. (2021). *Coastal Master Plan: Attachment C9: 2023 Barrier Island Model: ICM-BITI and ICM-BI* (Version 3; 2023 Coastal Master Plan, p. 70). Coastal Protection and Restoration Authority.
- Messina, F., Georgiou, I. Y., Bregman, M., Jung, H., Yuill, B. T., Liu, B., Cobell, Z., & Baustian, M. M. (2021). *Mid-Breton Sediment Diversion Engineering Modeling Support: Production Runs with the Basin Wide model Version 4 (Revised March 2022)*. Baton Rouge, LA: The Water Institute of the Gulf. Funded by the Coastal Protection and Restoration Authority under Task Order 77.
- Dalyander, P. S., Foster-Martinez, M., DiLeonardi, D. R., Georgiou, I. Y., Miner, M. D., & Fitzpatrick, C. (2021). *2023 Draft Coastal Master Plan. 2023 Barrier Island Model: ICM-BITI and ICM-BI* (p. 70) [Version 02]. Coastal Protection and Restoration Authority.
- Bregman, M., Messina, F., Jung, H., Yuill, B. T., Baustian, M. M., & Georgiou, I. Y. (2020). *Basin Wide Model Version 4: Basin Wide Model for Mid-Breton Sediment Diversion Modeling* (Task Order 51.3. Final Report). Baton Rouge, LA: The Water Institute of the Gulf. Funded by the Coastal Protection and Restoration Authority.
- Georgiou, I. Y., Foster-Martinez, M., Fitzpatrick, C., Jarrell, E., Bridgeman, J., Lee, D., Miner, M., Dalyander, P. S., & Dong, Z. (2020). *2023 Coastal Master Plan: Barrier island model improvements* (Version 1; p. 42). Coastal Protection and Restoration Authority.
- Georgiou, I. Y., Yocum, T. E., Amos, M. L., Kulp, M. A., & Flocks, J. (2019). *Louisiana Barrier Island Comprehensive Monitoring Program 2015-2019 coastal surface-sediment characterization analysis: Methods and results* (p. 38) [Analysis]. Prepared for the Louisiana Coastal Protection and Restoration Authority (CPRA), Pontchartrain Institute for Environmental Sciences, University of New Orleans.

- Georgiou, I. Y., & Yocum, T. (2019). *Hydrodynamic measurements and stage discharge relationships for Mardi Gras Pass in southeast Louisiana* (p. 15) [Technical report]. Submitted to the Lake Pontchartrain Basin Foundation.
- Georgiou, I. Y., Yocum, T. E., Brown, M., & Tevis, L. B. (2019). *Caminada Headland Beach and dune restoration Increment 1 (BA-0045) and Increment 2 (BA-0143): Restoration impacts to sediment characteristics part II* (p. 65). Pontchartrain Institute for Environmental Sciences, University of New Orleans.
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