



LSU

COASTAL DIRECTORY

LSU faculty with published
coastal research

February 2021

LSU Coastal Directory

Dear Colleague,

LSU has a long and rich history of making coastal and environmental research discoveries worldwide. In fact, LSU employs more than 200 faculty focused on the coast and environment, making it home to the largest group of such experts in Louisiana. This broad and diverse group of faculty experts work in units all across campus. Their research interests are highlighted in this directory.

Research for this directory began in 2019 and its design was inspired, in part, by the “LSU Coastal Research, Faculty Areas of Specialization” published in 2001-2002. Compiled based on a review of department websites, published research, and survey responses, this directory includes faculty members who have published research about the coast in one or more scientific journals within the past five years or faculty members hired since 2014, who have a currently-funded research grant for a relevant project.

While our long-term goal is to publish an online version of this directory, to share this information as quickly as possible, we are pleased to provide you with this pdf. If we may have missed someone that should have been included, please contact kfalls1@lsu.edu. We appreciate any advice you have on improving the directory in the future.

Sincerely,

Sam Bentley
Vice President of Research & Economic Development

Chris D'Elia
Professor & Dean, LSU College of the Coast & Environment

Should you encounter a barrier due to a disability, please contact Kathe Falls at 225-578-3381 or kfalls1@lsu.edu.

Coastal Directory Research Categories Quicklinks

Coastal Climate & Weather	Coastal Ecology	Coastal Economics & Planning
Coastal Engineering	Coastal Health	Coastal Modeling
Coastal Processes & Measurement	Coasts & People	

Coastal Climate & Weather



Specialization Areas:

- Air-Sea-Land interactions
- Atmospheric Circulation Variability
- Climate Change
- Hurricanes and Other Weather Hazards
- Paleoclimatology

LSU advances the world's knowledge about the complex conditions that drive weather in the short term and climate in the long term. Whether it's hurricanes and other weather hazards, air-sea-land interactions, atmospheric circulation variability, climate change, or historical severe weather events, research at LSU improves our understanding of the causes and impacts of changing atmospheric and meteorological conditions that are critical to the safety and well-being of those who live and work in coastal zones.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Achim Herrmann	Associate Professor	225-578-3016	aherrmann@lsu.edu	Department of Geology & Geophysics	Earth systems history, climate change, and marine biogeochemistry
Aimee Moles	Assistant Professor of Research	225-578-0573	amoles@lsu.edu	Social Research and Evaluation Center	Coastal resiliency, environmental health, disaster recovery, GIS mapping of social and environmental concerns, healthcare policy
Aly-Mousaad Aly	Associate Professor and Graduate Programs Advisor	225-578-6654	aly@lsu.edu	Windstorm Impact, Science and Engineering (WISE) Research, Civil Engineering	Wind engineering, hurricane wind simulation, coastal resilient infrastructure, green energy infrastructure, hurricane protection policy, aerodynamic/aeroelastic studies
Barry D. Keim	Professor	225-578-6170	keim@lsu.edu	Department of Geography and Anthropology	Climatology, meteorology, statistical analysis of climate extremes, heavy rainfall, hurricanes, storm surge, climate change, climate variability
Bob Rohli	Professor	225-578-6346	rohli@lsu.edu	Oceanography & Coastal Sciences	Coastal weather and climate, atmospheric circulation variability, atmospheric hazards, tropical cyclone dynamics, surface-atmosphere interactions, synoptic meteorology and climatology
David Dismukes	Professor	225-578-4343	dismukes@lsu.edu	Environmental Sciences, Center for Energy Studies	Analysis of economic, statistical, and public policy issues in energy and regulated industries, oil and gas exploration and production (E&P) activities, market structure issues, natural gas and electric power markets, economic impacts of Gulf Coast energy industry infrastructure development

Name	Title	Phone	Email	Department / Center / Institute	Research interests
David Sathiaraj	Assistant Professor-Research	225-578-4364	davids@srcc.lsu.edu	Department of Geography and Anthropology	Big Data Analytics, Social Network Analysis, Data-driven Computing, Behavioral Analytics, and Climate Informatics
Ed Laws	Professor	225-578-8800	edlaws@lsu.edu	Environmental Sciences	Phytoplankton ecology, nitrogen cycling, water pollution, climate change
George Xue	Assistant Professor	225-578-1118	zxue@lsu.edu	Oceanography & Coastal Sciences	Nutrient, carbon, and sediment dynamics, coupled physical-biogeochemical modeling, coupled ocean-wave-sediment transport modeling (ROMS, SWAN, COAWST), hydrology, climate change, human impacts, time series analysis, sequence stratigraphy, geochemistry
James Diaz	Professor	504-568-6052	jdiaz@lsuhsc.edu	Environmental and Occupational Health Sciences	Anesthesiology, critical care medicine, pain management, public health, occupational/environmental medicine, environmental toxicology, tropical infectious diseases, climate change, natural disasters
Jill C. Trepanier	Associate Professor	225-578-6192	jtrep3@lsu.edu	Department of Geography and Anthropology	Meteorology, tropical climatology, extreme climatic and weather phenomena, tropical cyclones, statistics, climate modeling, hurricanes risk assessment
Kalliat T. Valsaraj	Professor	225-578-5833	valsaraj@lsu.edu	Cain Department of Chemical Engineering	Environmental chemical engineering, atmospheric chemistry, wastewater treatment, pollutant transformations, sub-sea oil/gas spill chemical dispersants, mercury sequestration in sediments
Kam-Biu Liu	Professor and Chair	225-578-6136	kliu1@lsu.edu	Oceanography & Coastal Sciences	Paleotempestology, coastal paleoecology, ice-core paleoclimatology, global environmental change, palynology, and lake-sediments, hurricanes, wetlands, mangroves

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Kristine L. DeLong	Associate Professor	225-578-5836	kdelong@lsu.edu	Department of Geography and Anthropology	Paleoclimatology, scleroclimatology, paleoceanography, paleoecology, coral reefs, sea surface temperature records, atmosphere, climate change, climate variability
Linda Hooper-Bùi	Professor	225-578-5427	lindabui@lsu.edu	Environmental Sciences	Community structure, niche theory, ecosystem disturbance/disaster ecology, ecology theory-based restoration ecology, habitat loss, pollution, climate change, sea-level rise, entomology, food webs, nutrient dynamics, fire ants, diversity, equity, and inclusion, elevating the voices in environmentally impacted minoritized persons.
Matthew Hiatt	Assistant Professor	225-578-6092	mhiatt1@lsu.edu	Oceanography & Coastal Sciences	Numerical modeling, coastal hydrology, environmental fluid dynamics, water transport timescales in deltas and wetlands, coastal hydrological connectivity, network analysis, morphodynamics
Michael E. Hellberg	Associate Professor	225-578-1757	mhellbe@lsu.edu	Department of Biological Sciences	Marine invertebrate biology, molecular evolution, paleontology, biogeography, population genetics, coral reef genetics
Nancy Rabalais	Professor	225-578-8531	nrabal@lsu.edu	Oceanography & Coastal Sciences	Biological oceanography-continental shelf ecosystems influenced by large rivers; land-ocean interactions Coastal eutrophication; distribution, dynamics and effects of hypoxia Animal/sediment relationships; pelagic-benthic coupling Multiple stressors on ecosystems Integration of science and policy
Nan D. Walker	Professor	225-578-2395	nwalker@lsu.edu	Oceanography & Coastal Sciences	Physical oceanography, Satellite Oceanography, Estuarine-shelf exchange processes, Air-sea interactions, and tropical cyclone intensity, Gulf of Mexico Loop Current and eddy circulations, Physical-biological interactions, coral reef health

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Paul Miller	Assistant Professor	225-578-2734	pmiller1@lsu.edu	Oceanography & Coastal Sciences	Coastal meteorology, disorganized convection, land-atmosphere interactions, operational meteorology
Seung Kam	Professor	225-578-5216	kam@lsu.edu	Craft & Hawkins Department of Petroleum Engineering	Subsurface NAPL remediation, surfactant/polymer/foam processes, foam flow characterization, pipeline leak detection, multiphase flow behavior in porous media, pipes, and annulus
Sophie Warny	Associate Professor	225-578-5089	swarny@lsu.edu	Department of Geology & Geophysics	Coastal and marine palynology, paleo-environmental studies, paleoclimatology, isotope chemistry, biostratigraphy, climate evolution
Thomas J. Dean	Professor	225-578-4216	fwdean@lsu.edu	School of Renewable Natural Resources	Bottomland hardwood regeneration, quantitative silviculture, production ecology, stand dynamics



Coastal Ecology



Specialization Areas:

- Agriculture
- Aquaculture
- Coastal Habitats
- Coastal Land Loss
- Coral Reefs
- Estuaries
- Fisheries
- Wetlands
- Wildlife

LSU research on coastal ecology helps ensure a healthy coastal ecosystem for people, plants, and animals for generations to come. From wetlands and estuaries to the edge of the continental shelf, LSU researchers study coastal agriculture, aquaculture, coastal habitats, coastal land loss, coral reefs, estuaries, fisheries, wetlands, and wildlife.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Abigail Bockus	Adjunct Assistant Professor	985-851-2887	abockus@lumcon.edu	Department of Biological Sciences; Department of Renewable Natural Resources	Environmental physiology, aquaculture development, fish nutrition, and feed sustainability, aquatic ecosystem adaptability, organismal and population-level success with habitat change (temperature, salinity, hypoxia, ocean acidification), natural resource management
Achim Herrmann	Associate Professor	225-578-3016	aherrmann@lsu.edu	Department of Geology & Geophysics	Earth systems history, climate change, and marine biogeochemistry
Aixin Hou	Professor	225-578-4294	ahou@lsu.edu	Environmental Sciences	Microbial ecology, soil biogeochemistry, water quality, carbon and nitrogen cycling, agricultural systems, hypoxia, toxicology
Alan D. Afton	Adjunct Professor	225-578-4179	aafton@lsu.edu	School of Renewable Natural Resources	Waterfowl ecology, waterfowl social and migration behavior, waterfowl habitat optimization, nutritional ecology of waterfowl, agricultural and wetland management techniques for improving waterfowl habitats, bald eagles
Allen Rutherford	Director and Professor	225-578-4131	druther@lsu.edu	Department of Renewable Natural Resources	Natural fisheries, stream habitats, lotic fish assemblages, freshwater aquatic ecology, larval fish ecology, fish-habitat associations, human-induced effects on stream fish communities, hypoxia stress, bottomland hardwood forests
Bill J. Platt III	Professor	225-578-6586	btplat@lsu.edu	Department of Biological Sciences	Evolutionary ecology, conservation, natural and anthropogenic disturbance, southeastern US coastal landscapes, population and community dynamics, global climate change, natural resource management

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Cassandra N. Glaspie	Assistant Professor	225-578-0379	cglaspie1@lsu.edu	Oceanography & Coastal Sciences	Habitat complexity, environmental change, coastal and estuarine ecosystems, benthic community ecology, environmental stress response, shellfish
Charles Sasser	Research Professor	225-578-6375	csasser@lsu.edu	Oceanography & Coastal Sciences	Wetland plant ecology, wetland management, storm impacts
Chris D'Elia	Professor and Dean	225-578-7188	cdelia@lsu.edu	Oceanography & Coastal Sciences	Nutrient dynamics in aquatic systems, estuarine ecology, coral reef ecology, algal/invertebrate symbiosis, science history and policy, math and science education, marine pollution, global climate change, analytical chemistry
Christopher C. Austin	Associate Professor	225-578-2841	ccaustin@lsu.edu	Department of Biological Sciences	Herpetology, evolutionary biology, molecular genetics, biogeography, phylogeography, physiological and functional ecology of reptiles and amphibians
Christopher Green	Associate Professor	225-765-2848	CGreen@agcenter.lsu.edu	School of Renewable Natural Resources	Reproductive fish physiology, fish endocrinology, aquaculture, crustacean physiology
Dan Holstein	Assistant Professor	225-578-6371	dholstein1@lsu.edu	Oceanography & Coastal Sciences	Seascape ecology, coral reefs, mesophotic refugia, aquatic invertebrate reproduction, larval dispersal, metapopulation modeling, spatial effects of environmental change, marine population connectivity, ecological & simulation modeling
Ed Bush	Professor	225-578-2110	EBush@agcenter.lsu.edu	Plant, Environmental and Soil Sciences	Plant stress physiology, phytoremediation, plant adaptations to hurricanes and sea level rise, urban pollution, estuarine ecology, water quality, science education, community outreach

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Evelyn (Gutierrez) Watts	Assistant Professor	225-578-6304	egwatts@agcenter.lsu.edu	School of Nutrition & Food Sciences	Educational outreach, seafood processing, food safety, sanitation control procedures for fish and fishery products, basic seafood HACCP
Fabio Del Piero	Professor		fdelpiero@lsu.edu	Department of Pathobiological Sciences	Anatomic pathology, comparative pathology, infectious diseases, diagnostic pathology, aquatic organism pathology and diseases both vertebrates and invertebrates, marine mammals, alligator industry, molecular pathology, and immunohistochemistry
Fernando Galvez	Associate Professor	225-578-0599	galvezf@lsu.edu	Department of Biological Sciences	Comparative physiology and aquatic toxicology of fish, plasticity of fish epithelia, salinity stress, ectoparasitic infection, trace metal homeostasis and toxicity
Giulio Mariotti	Assistant Professor	225-578-8046	gmariotti@lsu.edu	Oceanography & Coastal Sciences	Ecogeomorphology, biogeology, sea level rise, sediment dynamics, hurricane and storm effects on sediment dynamics, coupled dynamics of sediment & biofilms / microbial-mats, carbonate platform sedimentary processes
Haosheng Huang	Associate Professor	225-578-5117	hhuang7@lsu.edu	Oceanography & Coastal Sciences	Physical oceanography, coastal and estuarine circulation dynamics, unstructured grid numerical modeling and data assimilation, tide and storm surge simulation, bio-physical interaction, and ecosystem modeling
Harry H. Roberts	Emeritus Boyd Professor	225-578-2964	hrober3@lsu.edu	Oceanography & Coastal Sciences	Marine Geology, Coastal Geology, Deltaic Geology, Coral Reefs, Sedimentology, Geophysics.
Irving A. Mendelssohn	Emeritus Professor	225-578-8810	imendel@lsu.edu	Oceanography & Coastal Sciences	Coastal plant ecology, wetland restoration, plant physiological ecology

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Jake Esselstyn	Assistant Professor	225-578-3803	esselstyn@lsu.edu	Department of Biological Sciences	Speciation, island biogeography, phylogenetics, systematics, community ecology, small mammal biodiversity
James H. Cowan Jr.	Professor	225-578-9401	jhcowan@lsu.edu	Oceanography & Coastal Sciences	Fisheries ecology, biological and fisheries oceanography, biometrics
James Diaz	Professor	504-568-6052	jdiaz@lsuhsc.edu	Environmental and Occupational Health Sciences	Anesthesiology, critical care medicine, pain management, public health, occupational/environmental medicine, environmental toxicology, tropical infectious diseases, climate change, natural disasters
Javier Nevarez	Professor	225-578-9600	jnevare@lsu.edu	Department of Veterinary Clinical Sciences	Zoological medicine, reptile medicine, infectious disease, epidemiology, alligator health, and aquaculture
Jerome F. La Peyre	Professor	225-578-5421	JLapeyre@agcenter.lsu.edu	School of Animal Sciences	Oyster diseases
Jim Cronin	Professor	225-578-7218	jcronin@lsu.edu	Department of Biological Sciences	Population and Community Ecology
John Fleege	Emeritus Professor		zoflee@lsu.edu	Department of Biological Sciences	Marine ecology, systematics, evolution and ecotoxicology of benthic invertebrates, benthic meiofauna, sediment contamination, fish predation, bioaccumulation, nutrient enrichment, oil spill marsh recovery
John W. Day, Jr.	Emeritus Professor	225-578-6508	johnday@lsu.edu	Oceanography & Coastal Sciences	estuarine ecology, systems ecology, wetland ecology, ecological modeling, effects of humans on natural systems, tropical coastal ecology, coastal management

Name	Title	Phone	Email	Department / Center / Institute	Research interests
John Hawke	Professor	225-578-9684	jhawke1@lsu.edu	Department of Pathobiological Sciences	Aquatic animal pathogens, mechanisms of fish pathogenic bacteria, vaccine development for bacterial pathogens of fish for use in aquaculture, emerging infectious diseases of cultured marine and freshwater fish and crustaceans
John Pardue	Professor	225-578-8661	jpardue@lsu.edu	Civil & Environmental Engineering	Marine aquatic chemistry, environmental toxicology, groundwater treatment, wastewater treatment wetlands, water quality, phytoremediation, oil spill bioremediation, marsh oil spill restoration
John White	Professor	225-578-8792	jrwhite@lsu.edu	Oceanography & Coastal Sciences	Biogeochemical cycling of carbon, nitrogen and phosphorus in aquatic systems including coastal and freshwater wetlands, estuaries and lake sediments, treatment performance of constructed wetlands for nutrients and pharmaceuticals removal, dynamics of internal nutrient loading, microbial-mediated nutrient transformations, plant-nutrient-soil dynamics.
Julie A. Anderson Lively	Associate Professor	225-578-0771	janderson@agcenter.lsu.edu	School of Renewable Natural Resources	Marine chemical cue ecology, crab biology, marine invasive species, commercial fisheries
Kam-Biu Liu	Professor and Chair	225-578-6136	kliu1@lsu.edu	Oceanography & Coastal Sciences	Paleotempestology, coastal paleoecology, ice-core paleoclimatology, global environmental change, palynology and lake-sediments, hurricanes, wetlands, mangroves
Kevin Ringelman	Assistant Professor	225-578-4222	kringelman@agcenter.lsu.edu	School of Renewable Natural Resources	Waterfowl ecology and management, behavioral ecology, conservation, duck breeding ecology

Kristine L. DeLong	Associate Professor	225-578-5836	kdelong@lsu.edu	Department of Geography and Anthropology	Paleoclimatology, scleroclimatology, paleoceanography, paleoecology, coral reefs, sea surface temperature records, atmosphere, climate change, climate variability
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Name	Title	Phone	Email	Department / Center / Institute	Research interests
Linda Hooper-Bùi	Professor	225-578-5427	lindabui@lsu.edu	Environmental Sciences	Community structure, niche theory, ecosystem disturbance/disaster ecology, ecology theory-based restoration ecology, habitat loss, pollution, climate change, sea-level rise, entomology, food webs, nutrient dynamics, fire ants, diversity, equity, and inclusion, elevating the voices in environmentally impacted minoritized persons.
Maheshi Dassanayake	Associate Professor	225-578-0960	maheshid@lsu.edu	Department of Biological Sciences	Comparative genomics, evolutionary genomics, functional genomics, stress adaptation, transcriptomics, mangroves, halophytes, extremophiles, systems biology, gene regulatory networks
Mark C. Benfield	Professor	225-578-6372	mabenfie@lsu.edu	Oceanography & Coastal Sciences	Zooplankton ecology, zooplankton taxonomy, acoustical telemetry studies of fish and invertebrates, biological observatories (ROV)
Megan La Peyre	Associate Research Professor	225-578-4180	mlapey@lsu.edu	School of Renewable Natural Resources	Wetland fisheries ecology, plant ecology, wetland ecology, coastal marsh management, coastal estuarine restoration, oyster reefs
Michael Dance	Assistant Professor	225-578-1243	mdance1@lsu.edu	Oceanography & Coastal Sciences	Movement ecology, fisheries science, population connectivity, stock assessment, seascape ecology, habitat use, early life history of marine fishes, biotelemetry
Michael E. Hellberg	Associate Professor	225-578-1757	mhellbe@lsu.edu	Department of Biological Sciences	Marine invertebrate biology, molecular evolution, paleontology, biogeography, population genetics, coral reef genetics
Michael Polito	Assistant Professor	225-578-9403	mpolito@lsu.edu	Oceanography & Coastal Sciences	Stable isotope ecology, food web dynamics, anthropogenic contaminants, ecology of marine birds and mammals, carbon flow through marsh food webs

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Mike Kaller	George William Barineau Jr. Professor	225-578-0012	mkalle1@lsu.edu	School of Renewable Natural Resources	Terrestrial-aquatic linkages, community ecology, invader ecology, freshwater ecology, urban fisheries, ecological restoration, quantitative theory, aquatic insects, and invertebrates
Morgan Kelly	Associate Professor	225-578-0224	morgankelly@lsu.edu	Department of Biological Sciences	Marine invertebrate ecology, evolution and conservation, thermal tolerance, ocean acidification, mating system evolution, climate change, comparative physiology, transcriptomics, oyster recruitment and survival
Phil Stouffer	Professor	225-578-4221	pstouffer@lsu.edu	School of Renewable Natural Resources	Avian ecology, conservation biology, tropical ecology, community ecology, habitat disturbance ecology
Prosanta Chakrabarty	Associate Professor	225-578-3079	prosanta@lsu.edu	Department of Biological Sciences	Fish biology, ichthyology, evolution biology, evolution of bioluminescent systems, phylogenetic systematics, geometric morphometrics, freshwater and cave fishes
Qianxin Lin	Research Professor	225-578-8889	comlin@lsu.edu	Oceanography & Coastal Sciences	Coastal plant ecology, plant-soil interactions, plant ecophysiology of environmental stresses, environmental chemistry of organic pollutants in wetlands, and oil spill wetland remediation and restoration
Rebeca De Jesus Crespo	Assistant Professor	225-578-4293	rdejesuscrespo1@lsu.edu	Environmental Sciences	Environmental conservation, sustainable development, ecosystem services, public health, agricultural land and water use, urban watersheds
Richard Keim	Professor	225-578-4169	rkeim@agcenter.lsu.edu	School of Renewable Natural Resources	Coastal and bottomland forest management, ecohydrology, forested wetlands, floodplain connectivity, remote sensing, soil chemistry

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Rick Shaw	Professor	225-578-3334	rshaw@lsu.edu	Oceanography & Coastal Sciences	Larval/Juvenile Fish Habitat and Ecology, Biological/Fisheries Oceanography, Transport and Recruitment Mechanisms and Coastal-Estuarine Processes, Age, Growth and Mortality Analyses, Fisheries and Global Climate Change
Robert Romaine	Emeritus Professor	225-765-2848	RRomaine@agcenter.lsu.edu	School of Renewable Natural Resources	Aquaculture, water quality, crawfish management practices
Robert Twilley	Professor	225-578-6445	rtwilley@lsu.edu	Oceanography & Coastal Sciences	Systems ecology, coastal wetland biogeochemistry, conceptual and simulation modeling, coastal restoration, nutrient and carbon dynamics
Rodrigo Diaz	Assistant Professor	225-578-1835	RDiaz@agcenter.lsu.edu	Department of Entomology	Invasive species ecology, biological control, entomology, herbivory, aquatic weed management, agriculture
Ronald L. Thune	Professor	225-578-9684	rthune@lsu.edu	Department of Pathobiological Sciences	Aquatic animal health, catfish, tilapia, striped bass, aquaculture species, molecular genomics, bacterial pathogenesis, protective vaccine development
Sibel Bargu	Professor	225-578-0029	sbargu@lsu.edu	Oceanography & Coastal Sciences	Freshwater, Estuarine and Marine Phytoplankton Ecology, Harmful Algal Blooms and Food Web Contamination, Phytoplankton-Zooplankton Interactions, Global Climate Change
Stephen Midway	Assistant Professor	225-578-6458	smidway@lsu.edu	Oceanography & Coastal Sciences	Fisheries ecology, commercial and recreational fisheries management, species-environment interactions, data analysis, and statistical modeling
Steven C. Hand	Professor	225-578-5144	shand@lsu.edu	Department of Biological Sciences	Bioenergetics, molecular physiology, environmental control of gene expression, comparative biochemistry, water stress, hypoxia, ontogenetics of invertebrates

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Terrence Tiersch	Professor	225-578-4131	ttiersch@agcenter.lsu.edu	School of Renewable Natural Resources	Aquaculture genomics, molecular genetics, hybridization, polyploidy, cryopreservation
Thomas J. Dean	Professor	(225)578-4216	fwdean@lsu.edu	School of Renewable Natural Resources	Bottomland hardwood regeneration, quantitative silviculture, production ecology, stand dynamics
Tracy Quirk	Assistant Professor	225-578-6426	tquirk@lsu.edu	Oceanography & Coastal Sciences	Nutrient and carbon cycling, wetland plant ecology, restoration ecology, human impacts, marsh morphodynamics
Victor H. Rivera-Monroy	Associate Professor	225-578-2745	vhrivera@lsu.edu	Oceanography & Coastal Sciences	Estuarine and coastal ecosystems, wetland biogeochemistry, landscape modeling, ecosystem modeling, coastal management, aquaculture
William E. Kelso	Professor	225-578-4176	wkelso@lsu.edu	School of Renewable Natural Resources	Aquatic ecology, fisheries management, fish biology, zooplankton, macroinvertebrate diversity, aquatic plants, water quality, habitat structure, bottomland hardwood forests
Witoon Prinyawiwatkul	Professor	225-578-5188	wprinya@lsu.edu wprinyawiwatkul@agcenter.lsu.edu	School of Nutrition & Food Sciences	Byproducts or waste (shell, frame, bone, skin, etc.) utilization from aquaculture or seafood processing; value-added product development, such as chitosan from crustacean shell for use as an antimicrobial agent or film/coating material to inhibit microbial growth, preserve quality of food and extend the food shelf life.

Coastal Economics & Planning



Specialization Areas:

- Coastal Law and Policy
- Coastal Management
- Coastal Policy
- Economics
- Risk Analysis

Our citizens and industries are directly impacted by changes in coastal and ocean resources. Data from researchers at LSU helps leaders make informed decisions about responsible stewardship of our natural resources and how to protect our people and assets. Our expertise spans coastal law, management, policy, economics, and risk analysis.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Brian Snyder	Assistant Professor	225-578-4559	snyderb@lsu.edu	Environmental Sciences	Renewable energy systems, climate policy, energy flow through human systems
Chester Wilmot	Professor	225-578-4697	cecgw@lsu.edu	Civil & Environmental Engineering	Hurricane evacuation, traffic safety, transportation planning, audio-visual presentation of time-dependent storm scenarios
Craig E. Colten	Professor	225-578-6180	ccolten@lsu.edu	Department of Geography and Anthropology	Environmental geography, coastal cities, community resilience, nature-society relations, adaptation to changing coastal environments, water and hazards in the American south
Dan Holstein	Assistant Professor	225-578-6371	dholstein1@lsu.edu	Oceanography & Coastal Sciences	Seascape ecology, coral reefs, mesophotic refugia, aquatic invertebrate reproduction, larval dispersal, metapopulation modeling, spatial effects of environmental change, marine population connectivity, ecological & simulation modeling
David Dismukes	Professor	225-578-4343	dismukes@lsu.edu	Environmental Sciences, Center for Energy Studies	Analysis of economic, statistical, and public policy issues in energy and regulated industries, oil and gas exploration and production (E&P) activities, market structure issues, natural gas and electric power markets, economic impacts of Gulf Coast energy industry infrastructure development
Dek Terrell	Professor	225-578-3785	mdterre@lsu.edu	Department of Economics	Bayesian Econometrics
Edward P. Richards	Professor	225-578-7595	richards@lsu.edu	Paul M. Hebert Law Center	Climate change, sea level rise, extreme weather event impacts on coastal cities and ecological systems, coastal erosion, public health policy, national security law, emergency preparedness law

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Evelyn (Gutierrez) Watts	Assistant Professor	225-578-6304	egwatts@agcenter.lsu.edu	School of Nutrition & Food Sciences	Educational outreach, seafood processing, food safety, sanitation control procedures for fish and fishery products, basic seafood HACCP
James A. Richardson	Professor	225-578-6745	parich@lsu.edu	Department of Economics	Regional forecasting, state and local tax policy, economic development, public policy, economic impact of hurricanes
Jerrold Penn	Assistant Professor	225-578-2753	jpenn@agcenter.lsu.edu	Department of Agricultural Economics & Agribusiness	Environmental economics, natural resource economics, marketing & consumer economics, experimental economics, entomology, biology, forestry, wildlife, ecotourism
Jill C. Trepanier	Associate Professor	225-578-6192	jtrep3@lsu.edu	Department of Geography and Anthropology	Meteorology, tropical climatology, extreme climatic and weather phenomena, tropical cyclones, statistics, climate modeling, hurricanes risk assessment
Krishna P. Paudel	Professor	225-578-7363	kpaudel@agcenter.lsu.edu	Department of Agricultural Economics & Agribusiness	Natural resource economics, applied econometrics, water quality, water quantity management in agriculture, groundwater use, water salinity issues
Margaret A. Reams	Professor	225-578-4299	mreams@lsu.edu	Environmental Sciences	Environmental policy and management, resilience, sustainability, environmental equity, environmental risk analysis
Mark J. Kaiser	Professor	225-578-4554	mkaiser@lsu.edu	Center for Energy Studies	Oil, gas, and refining industry, cost assessment, fiscal system analysis, economic and infrastructure modeling, and valuation studies, decommissioning in the Gulf of Mexico
Nicholas Bryner	Assistant Professor	225-578-8701	bryner@lsu.edu	Paul M. Hebert Law Center	Political science, energy, natural resources law, environmental human rights, international environmental law, climate change, natural disaster
Traci Birch	Assistant Professor	225-578-4990	tbirch@lsu.edu	School of Architecture	Architecture, enhanced coastal and environmental planning, ecosystem management, regional planning, ecosystem resilience



Coastal Engineering



Specialization Areas:

- Civil Engineering
- Construction and Design

Special considerations must be made in the design, construction, and maintenance of infrastructure and buildings in all coastal zones. LSU expertise in this area includes smart and sustainable solutions to address environmental and hydrodynamic impacts, morphodynamic changes in the coastal system, sediment transport, and integrated management.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Aly-Mousaad Aly	Associate Professor and Graduate Programs Advisor	225-578-6654	aly@lsu.edu	Windstorm Impact, Science and Engineering (WISE) Research, Civil Engineering	Wind engineering, hurricane wind simulation, coastal resilient infrastructure, green energy infrastructure, hurricane protection policy, aerodynamic/aeroelastic studies
Ayman Okeil	Professor	225-578-7048	aokeil@lsu.edu	Civil & Environmental Engineering	Bridge engineering, structural reliability, nondestructive testing and evaluation of structures, structural rehabilitation and strengthening, nonlinear behavior of concrete structures
Carol J. Friedland	Associate Professor	225-578-1155	friedland@lsu.edu	Bert S. Turner Department of Construction Management	Combined hurricane wind and flood interactions on structures, hazard-resistant construction and mitigation, risk assessment, post-hurricane hazard and damage data acquisition, remote sensing, storm surge, numerical modeling
Chao Sun	Assistant Professor	225-578-8511	csun@lsu.edu	Civil & Environmental Engineering	Combined wind-surge-wave loading characterization, complex dynamics modeling and mitigation of coastal and offshore infrastructure (buildings, wind turbines, power transmission/distribution systems, etc.) exposed to multiple coastal hazards, hydrodynamics, computational fluid dynamics, wave-generated energy, smart sensing and adaptive control
Morteza Naraghi-Pour	Michel B. Voorhies Distinguished Professor		naraghi@lsu.edu	Division of Electrical & Computer Engineering	Low-cost wireless sensor networks for monitoring coastal environments

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Paulo Waltrich	Associate Professor	225-578-2782	waltrich@lsu.edu	Craft & Hawkins Department of Petroleum Engineering	Worst Case Discharge, liquid loading in gas wells, artificial lift systems, managed pressure drilling
Robert Holton	Assistant Professor	225-578-4271	rholton@lsu.edu	School of Architecture	Low-cost hurricane-resistant residential construction, architectural aesthetics, and economics, low-income housing
Seung Kam	Professor	225-578-5216	kam@lsu.edu	Craft & Hawkins Department of Petroleum Engineering	Subsurface NAPL remediation, surfactant/polymer/foam processes, foam flow characterization, pipeline leak detection, multiphase flow behavior in porous media, pipes and annulus
Steve Cai	Professor	225-578-8898	cscail@lsu.edu	Civil & Environmental Engineering	Bridge engineering, bridge, performance assessment, hurricane/wind effects on coastal structures



Coastal Health



Specialization Areas:

- Epidemiology
- Public Health
- Pollutants
- Toxicology

LSU provides scientific research about coastal hazards that impact the health of our plants, animals, and people. Our expertise in epidemiology, microbiology, environmental pollutants, disease prevention, food and occupational safety, water quality, toxicology, harmful algal blooms, and other hazards helps create, promote, and maintain a healthier society.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Aimee Moles	Assistant Professor of Research	225-578-0573	amoles@lsu.edu	Social Research and Evaluation Center	Coastal resiliency, environmental health, disaster recovery, GIS mapping of social and environmental concerns, healthcare policy
Andy Nyman	Professor	225-578-4220	jnyman@agcenter.lsu.edu jnyman@lsu.edu	Andy Nyman	Coastal wetland ecology, wetland wildlife management, coastal marsh management, wetland restoration
Ariane Rung	Associate Professor	504-568-5709	abedim@lsuhsc.edu	Epidemiology	Relationship between social and built environments, disaster recovery, natural disasters, mental health, social characteristics, health behaviors, Hurricane Katrina, BP oil spill
Crystal N. Johnson	Associate Professor	225-578-9422	cnjohnson@lsu.edu	Environmental Sciences	Biological oceanography, marine viral ecology, phylogenetic typing, pathogens, environmental pollutants, avian microbiology, molecular microbiology, science communication
Daniel Harrington	Assistant Professor – Research	504-568-6042	dharr3@lsuhsc.edu	Environmental and Occupational Health Sciences	Biostatistics, public health, natural disasters, mental health
Edward Overton	Emeritus Professor	225-578-8634	ebovert@lsu.edu	Environmental Sciences	Analytical-environmental chemistry, environmental monitoring, chemical hazard evaluations and risk assessments, environmental toxicology, environmental remediation, analytical instrument development
Edward Trapido	Professor	504-568-5772	etrapid@lsuhsc.edu	Epidemiology; School of Public Health-New Orleans	Environmental epidemiology, cancer prevention and control, etiologic research

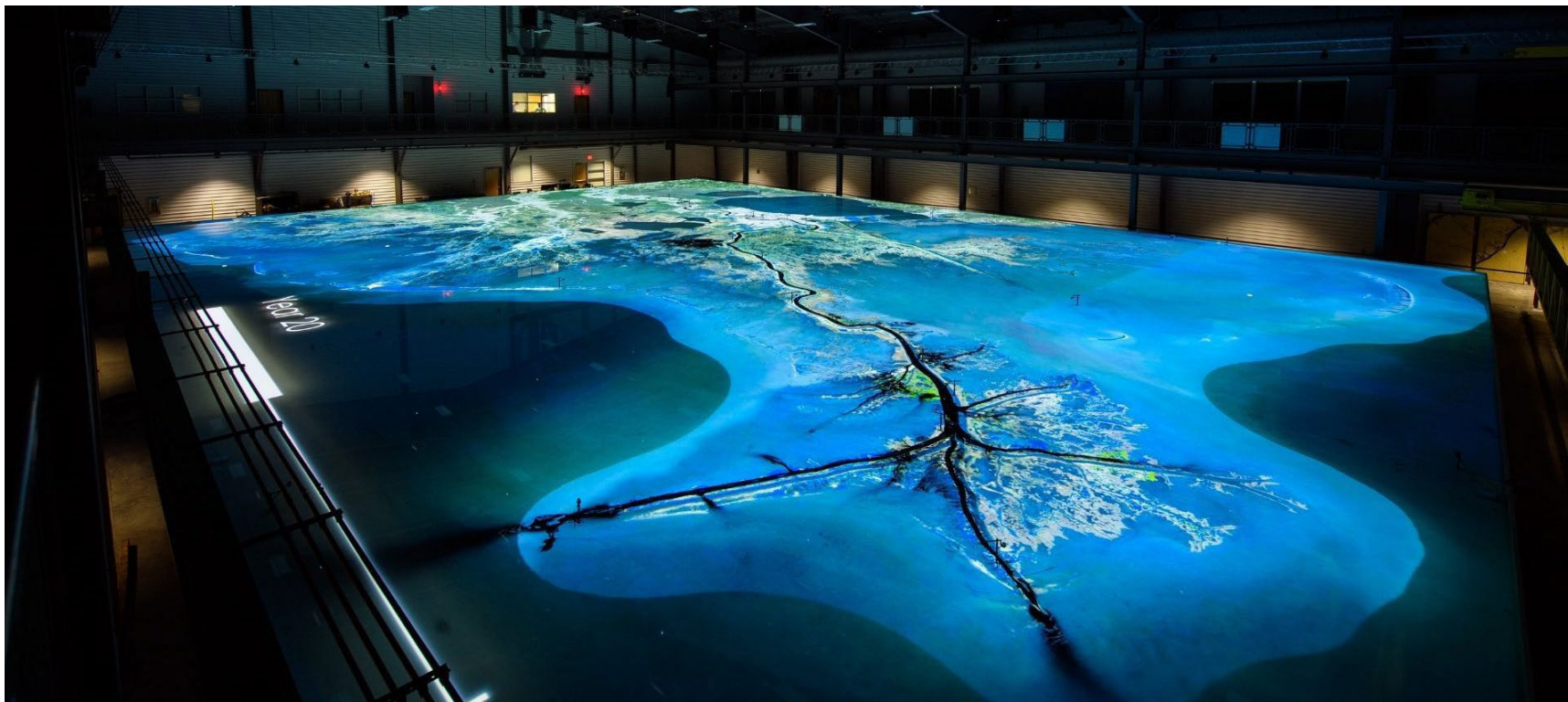
Name	Title	Phone	Email	Department / Center / Institute	Research interests
Evrin Oral	Associate Professor	504-568-6094	eoral@lsuhsc.edu	Biostatistics	Biostatistics, generalized linear models, survey sampling, robust statistical inference, disaster impacts on mental health and physical health
James Diaz	Professor	504-568-6052	jdiaz@lsuhsc.edu	Environmental and Occupational Health Sciences	Anesthesiology, critical care medicine, pain management, public health, occupational/environmental medicine, environmental toxicology, tropical infectious diseases, climate change, natural disasters
Jim Jian Wang	Professor	225-578-1360	JJWang@agcenter.lsu.edu	Plant, Environmental and Soil Sciences	Soil biogeochemistry, organic chemical pollutants, water quality, water pollution remediation, carbon and nitrogen dynamics of agricultural and natural ecosystems, fertilizer efficiency, heavy metal mobility in soils, wastewater treatment, greenhouse gases, Coastal wetland biogeochemistry
Kalliat T. Valsaraj	Professor	225-578-5833	valsaraj@lsu.edu	Cain Department of Chemical Engineering	Environmental chemical engineering, atmospheric chemistry, wastewater treatment, pollutant transformations, sub-sea oil/gas spill chemical dispersants, mercury sequestration in sediments
Kanchan Maiti	Associate Professor	225-578-4531	kmaiti@lsu.edu	Oceanography & Coastal Sciences	Physical oceanography, aquatic biogeochemistry, radioisotope analyses, sediment geochemistry, chemical processes at sediment-water interface, ocean acidification.
Kari Fitzmorris Brisolara	Associate Professor and Associate Dean for Academic Affairs	504-568-5725	kbriso@lsuhsc.edu	Environmental and Occupational Health Sciences	Environmental health, waste treatment and reuse, public health

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Kevin L. Armbrust	Professor and Chair	225-578-4281	armbrust@lsu.edu	Environmental Sciences	Environmental toxicology, non-target freshwater and marine watershed pollution, environmental impact of pesticides and pharmaceutical products, ecological and human health risk assessment
Krishnaswamy Nandakumar	Cain Chair Professor	225-578-2361	nandakumar@lsu.edu	Cain Department of Chemical Engineering	Multiphase flows, computational fluid dynamics, computer-aided modeling of chemical, mineral, polymer and electrochemical processes, oil spill modeling
Lewis A. Gaston	Associate Professor	225-578-1323	LAGaston@agcenter.lsu.edu	Plant, Environmental and Soil Sciences	Soil environmental chemistry, water quality
Linda Hooper-Bùi	Professor	225-578-5427	lindabui@lsu.edu	Environmental Sciences	Community structure, niche theory, ecosystem disturbance/disaster ecology, ecology theory-based restoration ecology, habitat loss, pollution, climate change, sea-level rise, entomology, food webs, nutrient dynamics, fire ants, diversity, equity, and inclusion, elevating the voices in environmentally impacted minoritized persons.
Louis Thibodeaux	Emeritus Professor	225-578-3055	thibod@lsu.edu	Environmental Sciences & Cain Department of Chemical Engineering	Chemical processes, kinetics, transport science: momentum, heat and mass, environmental chemodynamics, unit operations, chemical engineering, multimedia environmental modeling, bed-sediment remediation
Mark C. Benfield	Professor	225-578-6372	mabenfie@lsu.edu	Oceanography & Coastal Sciences	Zooplankton ecology, zooplankton taxonomy, acoustical telemetry studies of fish and invertebrates, biological observatories (ROV)
Ralph J. Portier	Professor	225-578-4287	rportie@lsu.edu	Environmental Sciences	Aquatic and marine ecotoxicology, industrial microbiology, bioremediation

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Rebeca De Jesus Crespo	Assistant Professor	225-578-4293	rdejesuscrespo1@lsu.edu	Environmental Sciences	Environmental conservation, sustainable development, ecosystem services, public health, agricultural land and water use, urban watersheds
Robert Cook	Professor	225-578-2980	rlcook@lsu.edu	Department of Chemistry	Environmental chemistry, humic materials, agricultural pharmaceuticals, agricultural chemicals, xenobiotic compounds, biochemistry, analytical chemistry, environmentally persistent free radicals (EPFRs), nuclear magnetic resonance (NMR), and fluorescence
Sibel Bargu	Professor	225-578-0029	sbargu@lsu.edu	Oceanography & Coastal Sciences	Freshwater, Estuarine and Marine Phytoplankton Ecology, Harmful Algal Blooms and Food Web Contamination, Phytoplankton-Zooplankton Interactions, Global Climate Change
Troy C. Blanchard	Dean of the College of Humanities and Social Sciences and Professor of Sociology	225-578-8273	troy@lsu.edu	Sociology	Social inequality, social demography, applied sociology, socioeconomic conditions, demographic outcomes
Vincent L. Wilson	Professor	225-578-1753	vwilson@lsu.edu	Environmental Sciences	Ecotoxicology, environmental pollutants; carcinogenesis, mutagenesis; environmental biomonitoring, microbial community ecology, genetic diseases, environmental biomonitoring

Name	Title	Phone	Email	Department / Center / Institute	Research interests
William Moe	Professor	225-578-9174	moemwil@lsu.edu	Civil & Environmental Engineering	Biological treatment of municipal, industrial, and hazardous wastes, bioremediation, environmental microbiology

Coastal Modeling



Specialization Areas:

- Biogeochemical
- Coastal Hydrological
- Compound Flooding
- Geomorphological
- Physical Oceanography
- Storm Surge

Coastal models help visualize and explain complex data as well as predict various scenarios in coastal zones. Data provided by these models helps ensure that coastal resources are deployed wisely and risks are reduced for people and assets. LSU's modeling expertise includes biogeochemistry, coastal hydrology, geomorphology, physical oceanography, sediment transport, storm surge, and more.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Celalettin Emre Ozdemir	Assistant Professor	225-578-5045	cozdemir@lsu.edu	Civil & Environmental Engineering	Environmental fluid dynamics and sustainability, computational sediment transport modeling, simulation and modeling of multi-scale turbulent processes, advanced scientific computing
Chunyan Li	Professor	225-578-3619	cli@lsu.edu	Oceanography & Coastal Sciences	Physical oceanography, transport, coastal and estuarine circulations, innovative observations, modeling, extreme weather (such as hurricanes), induced water level changes including storm surges
Clint Willson	Professor	225-578-8672	cwillson@lsu.edu	Civil & Environ Engineering; Center for River Studies	Physical and numerical modeling of river hydraulics and sediment transport, river deltas, sediment dynamics, fluid dynamics, groundwater hydrology and modeling, high-resolution 3D imaging of porous media
DeWitt Braud Jr.	Academic Area Co-ordinator	225-578-6177	dbraud1@lsu.edu	Coastal Studies Institute	coastal change, land loss, spatial analysis and GIS modeling, environmental remote sensing and image processing
Dubravko Justic	Professor	225-578-6394	djusti1@lsu.edu	Oceanography & Coastal Sciences	Ecosystem modeling, biological oceanography, coastal eutrophication, hypoxia, impacts of climate change on coastal ecosystems
Frank Tsai	Professor	225-578-4246	ftsai@lsu.edu	Civil & Environmental Engineering	Groundwater hydrology and hydraulics, water resources system and management, geological architecture modeling, groundwater transport modeling, saltwater intrusion modeling and management, geospatial heterogeneity reconstruction, hydropower optimization, coastal environmental modeling and management, wastewater treatment

Name	Title	Phone	Email	Department / Center / Institute	Research interests
George Xue	Assistant Professor	225-578-1118	zxue@lsu.edu	Oceanography & Coastal Sciences	Nutrient, carbon, and sediment dynamics, coupled physical-biogeochemical modeling, coupled ocean-wave-sediment transport modeling (ROMS, SWAN, COAWST), hydrology, climate change, human impacts, time series analysis, sequence stratigraphy, geochemistry
Giulio Mariotti	Assistant Professor	225-578-8046	gmariotti@lsu.edu	Oceanography & Coastal Sciences	Ecogeomorphology, biogeology, sea level rise, sediment dynamics, hurricane and storm effects on sediment dynamics, coupled dynamics of sediment & biofilms / microbial-mats, carbonate platform sedimentary processes
Haosheng Huang	Associate Professor	225-578-5117	hhuang7@lsu.edu	Oceanography & Coastal Sciences	Physical oceanography, coastal and estuarine circulation dynamics, unstructured grid numerical modeling and data assimilation, tide and storm surge simulation, bio-physical interaction and ecosystem modeling
Jennifer R. Brum	Assistant Professor	225-578-6364	jbrum1@lsu.edu	Oceanography & Coastal Sciences	Marine viral ecology, marine biogeochemistry, microbial ecology, marine dead zones, hydrothermal vents
Jill C. Trepanier	Associate Professor	225-578-6192	jtrep3@lsu.edu	Department of Geography and Anthropology	meteorology, tropical climatology, extreme climatic and weather phenomena, tropical cyclones, statistics, climate modeling, hurricanes risk assessment
Jun-Hong Liang	Associate Professor	225-578-7301	jliang@lsu.edu	Oceanography & Coastal Sciences	Physical oceanography, marine biogeochemistry, ecosystem dynamics, ocean modeling, oceanic boundary layer turbulence, air-sea gas transfer processes, mesoscale and submesoscale oceanic processes

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Kehui "Kevin" Xu	Associate Professor	225-578-0389	kxu@lsu.edu	Oceanography & Coastal Sciences	Geological oceanography, coastal morphodynamics, observation and numerical modeling of sediment transport, sediment dynamics of bottom boundary layer, sedimentary geology, coastal processes
Lei Wang	Associate Professor	225-578-8876	leiwang@lsu.edu	Department of Geography and Anthropology	Remote sensing, GIS, hydrological modeling, mapping, spatial analysis, satellite image processing, geocomputation, flooding hazards
Matthew Hiatt	Assistant Professor	225-578-6092	mhiatt1@lsu.edu	Oceanography & Coastal Sciences	Numerical modeling, coastal hydrology, environmental fluid dynamics, water transport timescales in deltas and wetlands, coastal hydrological connectivity, network analysis, morphodynamics
Mayank Tyagi	Associate Professor	225-578-6041	mtyagi@lsu.edu	Craft & Hawkins Department of Petroleum Engineering	Computational fluid dynamics, environmental monitoring, oil spill risk assessment, petroleum production technologies, offshore drilling
Scott C. Hagen	Professor	225-578-4303	shagen@lsu.edu	Center for Coastal Resiliency; Civil & Environmental Engineering; Center for Computation & Technology	Tide, wind-wave and hurricane storm surge modeling; unstructured mesh development; compound flooding and the flood transition zone; coastal dynamics of sea level rise; biogeophysical modeling under climate change; transdisciplinary research outcomes.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Steve Brandt	Adjunct Professor	225-578-8548	sbrandt@cct.lsu.edu	School of Electrical Engineering and Computer Science	Numerical modeling, high-performance computing, parallel computing, programming language design
Xuelian 'Shelley' Meng	Associate Professor	225-578-6199	smeng@lsu.edu	Department of Geography and Anthropology	3D morphological mapping, UAV and LIDAR, land-cover/land-use dynamics, vegetation phenology



Coastal Processes & Measurement



Specialization Areas:

- Biogeochemistry
- Coastal Geosciences
- Hydrology
- Land Loss
- Remote Sensing
- Restoration
- Sea Level Rise
- Water Quality

Louisiana's coast is eroding faster than any other place in the continental United States. LSU is a leader in the race to determine the causes and impacts of these changes and to innovate and discover new solutions and approaches. Our areas of expertise include biogeochemistry, coastal geosciences, hydrology, land loss, remote sensing, restoration, sea-level rise, and water quality.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Achim Herrmann	Associate Professor	225-578-3016	aherrmann@lsu.edu	Department of Geology & Geophysics	Earth systems history, climate change, and marine biogeochemistry
Andy Nyman	Professor	225-578-4220	jnyman@agcenter.lsu.edu jnyman@lsu.edu	School of Renewable Natural Resources	Coastal wetland ecology, wetland wildlife management, coastal marsh management, wetland restoration
Barun Sen Gupta	Emeritus Professor	225-578-5984	glbarun@lsu.edu	Department of Geology & Geophysics	Effects of seasonal coastal hypoxia on benthic foraminifera: present-day and historical evidence, oil rig reef colonization
Carol A. Wilson	Assistant Professor	225-578-6439	carolw@lsu.edu	Department of Geology & Geophysics	Deltaic wetland sedimentology and geomorphology, ecophysical processes that shape coastal and deltaic wetlands, landscape elevation change, biogeomorphology, carbon dynamics, subsurface stratigraphy, human impacts, human migration, barrier island restoration
Carol Wicks	Professor	225-223-8187	cwicks@lsu.edu	Department of Geology & Geophysics	Karst hydrogeology, groundwater-surface water interactions in the Dougherty Plain in coastal Georgia, temporal geochemical variations in saline springs, thermal and geochemical disturbances on aquifers in karstic basins, and subsurface geology of Louisiana
Clint Willson	Professor	225-578-8672	cwillson@lsu.edu	Civil & Environmental Engineering; Center for River Studies	Physical and numerical modeling of river hydraulics and sediment transport, river deltas, sediment dynamics, fluid dynamics, groundwater hydrology and modeling, high-resolution 3D imaging of porous media

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Craig E. Colten	Professor	225-578-6180	ccolten@lsu.edu	Department of Geography and Anthropology	Environmental geography, coastal cities, community resilience, nature-society relations, adaptation to changing coastal environments, water and hazards in the American south
Dario Harazim	Assistant Professor - Research	832-916-6990	harazimdario@gmail.com	Department of Geology & Geophysics	Sedimentology of modern and ancient marginal-marine systems, siliciclastic diagenesis, animal-mineral-microbe interactions, isotope geochemistry
David Spivak	Professor	225-578-2868	dspivak@lsu.edu	Department of Chemistry	Organic, polymer, and bioanalytical materials chemistry, synthetic methodology, template-organized polymer materials
Denise DeLorme	Professor	225-578-8832	ddelorme@lsu.edu	Environmental Sciences	Qualitative social science research methods, environmental communication, social marketing, stakeholder engagement, health communication
DeWitt Braud Jr.	Academic Area Coordinator	225-578-6177	dbraud1@lsu.edu	Coastal Studies Institute	Coastal change, land loss, spatial analysis and GIS modeling, environmental remote sensing and image processing
Ed Bush	Professor	225-578-2110	EBush@agcenter.lsu.edu	Plant, Environmental and Soil Sciences	Plant stress physiology, phytoremediation, plant adaptations to hurricanes and sea level rise, urban pollution, estuarine ecology, water quality, science education, community outreach
Eurico J. D'Sa	Professor	225-578-0212	ejdsa@lsu.edu	Oceanography & Coastal Sciences	Ocean color remote sensing; Bio-optical properties of coastal and ocean waters; Physical-biogeochemical interactions; Optical properties of colored dissolved organic matter; Coastal biogeochemical processes
Gary M. King	Professor	225-578-1901	gking@lsu.edu	Department of Biological Sciences	Benthic marine biogeochemistry, soil microbial ecology, plant-microbe interactions, carbon cycling, lithotrophic bacterial communities

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Giulio Mariotti	Assistant Professor	225-578-8046	gmariotti@lsu.edu	Oceanography & Coastal Sciences	Ecogeomorphology, biogeology, sea level rise, sediment dynamics, hurricane and storm effects on sediment dynamics, coupled dynamics of sediment & biofilms / microbial-mats, carbonate platform sedimentary processes
Haosheng Huang	Associate Professor	225-578-5117	hhuang7@lsu.edu	Oceanography & Coastal Sciences	Physical oceanography, coastal and estuarine circulation dynamics, unstructured grid numerical modeling and data assimilation, tide and storm surge simulation, bio-physical interaction and ecosystem modeling
Irving A. Mendelsohn	Emeritus Professor	225-578-8810	imendel@lsu.edu	Oceanography & Coastal Sciences	Coastal plant ecology, wetland restoration, plant physiological ecology
Jim Cronin	Professor	225-578-7218	jcronin@lsu.edu	Department of Biological Sciences	Population and Community Ecology, Plant-Herbivore-Natural Enemy Interactions, Behavioral Ecology, Spatial/Landscape Ecology, Ecological Genetics, Biological Pest Management, Invasive Species, Conservation Biology
John White	Professor	225-578-8792	jrwhite@lsu.edu	Oceanography & Coastal Sciences	Biogeochemical cycling of carbon, nitrogen and phosphorus in aquatic systems including coastal and freshwater wetlands, estuaries and lake sediments, treatment performance of constructed wetlands for nutrients and pharmaceuticals removal, dynamics of internal nutrient loading, microbial-mediated nutrient transformations, plant-nutrient-soil dynamics.
Juan Lorenzo	Professor	225-578-4249	gllore@lsu.edu	Department of Geology & Geophysics	Seismology, seismic physical modeling, soil properties beneath flood protection levees, floodwall collapse, Pleistocene faulting in deltas, geophysical models and monitoring

Jun Xu	Professor	225-578-4168	yjxu@lsu.edu	School of Renewable Natural Resources	Hydrologic and biogeochemical processes and modeling, sediment transport, fluvial geomorphology, watershed and river hydrology, water quality, land use and climate change effects on hydrologic and biogeochemical cycles, GIS and Remote Sensing applications in hydrology, geomorphology, and coastal processes
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Name	Title	Phone	Email	Department / Center / Institute	Research interests
Kalliat T. Valsaraj	Professor	225-578-5833	valsaraj@lsu.edu	Cain Department of Chemical Engineering	Environmental chemical engineering, atmospheric chemistry, wastewater treatment, pollutant transformations, sub-sea oil/gas spill chemical dispersants, mercury sequestration in sediments
Kehui "Kevin" Xu	Associate Professor	225-578-0389	kxu@lsu.edu	Oceanography & Coastal Sciences	Geological oceanography, coastal morphodynamics, observation and numerical modeling of sediment transport, sediment dynamics of bottom boundary layer, sedimentary geology, coastal processes
Krishna P. Paudel	Professor	225-578-7363	kpaudel@agcenter.lsu.edu	Department of Agricultural Economics & Agribusiness	Natural resource economics, applied econometrics, water quality, water quantity management in agriculture, groundwater use, water salinity issues
Lei Wang	Associate Professor	225-578-8876	leiwang@lsu.edu	Department of Geography and Anthropology	Remote sensing, GIS, hydrological modeling, mapping, spatial analysis, satellite image processing, geocomputation, flooding hazards
Magdi Selim	Professor	225-578-1332	MSelim@agcenter.lsu.edu	Plant, Environmental and Soil Sciences	Water management of irrigation and drainage systems, soil environmental chemistry, water quality, watershed-level pollutant source identification, soil contamination, soil biogeochemistry
Mark C. Benfield	Professor	225-578-6372	mhenfie@lsu.edu	Oceanography & Coastal Sciences	Zooplankton ecology, zooplankton taxonomy, acoustical telemetry studies of fish and invertebrates, biological observatories (ROV)
Matthew Hiatt	Assistant Professor	225-578-6092	mhiatt1@lsu.edu	Oceanography & Coastal Sciences	Numerical modeling, coastal hydrology, environmental fluid dynamics, water transport timescales in deltas and wetlands, coastal hydrological connectivity, network analysis, morphodynamics
Michael Malisoff	Professor	225 578 6714	malisoff@lsu.edu	Department of Mathematics	Marine robotics, curve tracking, mathematical control theory, engineering systems, applied dynamical systems, pollution monitoring, oil spill monitoring

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Mike Kaller	George William Barineau Jr. Professor	225-578-0012	mkalle1@lsu.edu	School of Renewable Natural Resources	Terrestrial-aquatic linkages, community ecology, invader ecology, freshwater ecology, urban fisheries, ecological restoration, quantitative theory, aquatic insects and invertebrates
Morteza Naraghi-Pour	Michel B. Voorhies Distinguished Professor		naraghi@lsu.edu	Division of Electrical & Computer Engineering	Low-cost wireless sensor networks for monitoring coastal environments
Nancy Rabalais	Professor	225-578-8531	nrabal@lsu.edu	Oceanography & Coastal Sciences	Biological oceanography-continental shelf ecosystems influenced by large rivers; land ocean interactions Coastal eutrophication; distribution, dynamics and effects of hypoxia Animal/sediment relationships; pelagic-benthic coupling Multiple stressors on ecosystems Integration of science and policy
Pamela Blanchard	Associate Professor	225-578-2297	pamb@lsu.edu	School of Education	Science education, community outreach, coastal restoration, resiliency, stewardship of natural resources
Peter Clift	Professor	225-578-2153	pclift@lsu.edu	Department of Geology & Geophysics	Sedimentary geology, marine geology, geoarchaeology, climatic and anthropogenic impacts on environment in monsoonal Asia, Asian marginal seas, subsidence analysis
Richard H. Kesel	Emeritus Professor	225-578-5880	gakesel@lsu.edu	Department of Geography and Anthropology	Alluvial formation, river systems, geomorphology, hydrogeology, sediment dynamics, wetlands, coastal deltas, human modification of channels
Robert Cook	Professor	225-578-2980	rlcook@lsu.edu	Department of Chemistry	Environmental chemistry, humic materials, agricultural pharmaceuticals, agricultural chemicals, xenobiotic compounds, biochemistry, analytical chemistry, environmentally persistent free radicals (EPFRs), nuclear magnetic resonance (NMR), and fluorescence

Name	Title	Phone	Email	Department / Center / Institute	Research interests
R. Eugene Turner	Professor	225-578-6454	euturne@lsu.edu	Oceanography & Coastal Sciences	Wetland ecology, coastal restoration, biological oceanography, conservation, environmental management, estuarine ecology, fisheries ecology, sustainable systems, human impacts (oil, hypoxia)
Sam J. Bentley	Professor	225-578-5833	sjb@lsu.edu	Department of Geology & Geophysics	Coastal and marine sedimentology, sediment radiochemistry, fine sediment dynamics on continental shelves, bioturbation, predictive modeling of sedimentary fabric and structures, geological oceanography, deltaic wetlands
Seung Kam	Professor	225-578-5216	kam@lsu.edu	Craft & Hawkins Department of Petroleum Engineering	Subsurface NAPL remediation, surfactant/polymer/foam processes, foam flow characterization, pipeline leak detection, multiphase flow behavior in porous media, pipes and annulus
Sibel Bargu	Professor	225-578-0029	sbargu@lsu.edu	Oceanography & Coastal Sciences	Freshwater, Estuarine and Marine Phytoplankton Ecology, Harmful Algal Blooms and Food Web Contamination, Phytoplankton-Zooplankton Interactions, Global Climate Change
Sophie Warny	Associate Professor	(225) 578-5089	swarny@lsu.edu	Department of Geology & Geophysics	Coastal and marine palynology, paleo-environmental studies, paleoclimatology, isotope chemistry, biostratigraphy, climate evolution
Tracy Quirk	Assistant Professor	225-578-6426	tquirk@lsu.edu	Oceanography & Coastal Sciences	Nutrient and carbon cycling, wetland plant ecology, restoration ecology, human impacts, marsh morphodynamics
Xuelian 'Shelley' Meng	Associate Professor	225-578-6199	smeng@lsu.edu	Department of Geography and Anthropology	3D morphological mapping, UAV and LIDAR, land-cover/land-use dynamics, vegetation phenology



Coasts & People



Specialization Areas:

- Anthropology and Archaeology
- Disaster Management and Psychology
- Education, Journalism, and Outreach
- Environmental Communication
- Environmental Humanities
- Geography and GIS
- Historic and Cultural Preservation
- Music, Art, and Design

LSU uses a multi-disciplinary approach to help understand the many important relationships that exist between people and their coastal environment. This research has global reach since about 40% of the world's population lives within 100 kilometers or 62 miles of the coast. Coastal people are facing new challenges every day that impact our homes, buildings, infrastructure, work, and ways of life.

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Aimee Moles	Assistant Professor of Research	225-578-0573	amoles@lsu.edu	Social Research and Evaluation Center	Coastal resiliency, environmental health, disaster recovery, GIS mapping of social and environmental concerns, healthcare policy
Brendan Harmon	Assistant Professor	919-622-8414	baharmon@lsu.edu	Robert Reich School of Landscape Architecture	Generative design, GIS, geospatial modeling, tangible interaction, digital fabrication, virtual reality
Brian Marks	Assistant Professor	225-578-6077	bmarks@lsu.edu	Department of Geography and Anthropology	Political and economic geography in the coastal deltas of the Mekong and Mississippi rivers, fisheries, seafood industry, cultural landscapes, socio-economic effects of offshore oil and gas development, petro-populism, post-diluvian neoliberalism
Carolyn Ware	Associate Professor	225-578-3022	cware1@lsu.edu	English	Louisiana folklife, coastal communities and cultural resiliency, folk belief and healing traditions, women's folklore and gender roles, hurricanes' effects on commercial fishing, material culture, and community events
Christopher Kenny	Associate Professor	225-578-2546	pokenn@lsu.edu	Department of Political Sciences	Mass political behavior, microenvironments, attitude changes, social influence, social networks, disaster response, emotional response to disaster
Craig E. Colten	Professor	225-578-6180	ccolten@lsu.edu	Department of Geography and Anthropology	environmental geography, coastal cities, community resilience, nature-society relations, adaptation to changing coastal environments, water and hazards in the American south

Name	Title	Phone	Email	Department / Center / Institute	Research interests
David Chicoine	Associate Professor	225-578-8105	dchico@lsu.edu	Department of Geography and Anthropology	Archaeology, Central Andes (focus on coastal Peru), coastal adaptations, early urbanism, political systems, human environmental interactions, architecture, material culture, foodways, mortuary practices, visual arts, cultural heritage
Dek Terrell	Professor	225-578-3785	mdterre@lsu.edu	Department of Economics	Bayesian Econometrics
Denise DeLorme	Professor	225-578-8832	ddelorme@lsu.edu	College of the Coast and Environment: Environmental Sciences	qualitative social science research methods, environmental communication, social marketing, stakeholder engagement, health communication
Edward P. Richards	Professor	225-578-7595	richards@lsu.edu	Paul M. Hebert Law Center	Climate change, sea level rise, extreme weather event impacts on coastal cities and ecological systems, coastal erosion, public health policy, national security law, emergency preparedness law
Frederick Weil	Associate Professor	225-578-1140	fweil@lsu.edu	Sociology	Visual sociology, political sociology, community & urban, disasters, survey research, photo/video ethnography, geospatial analysis, disaster stress
Heather McKillop	Professor	225-578-6178	hmckill@lsu.edu	Department of Geography and Anthropology	Archaeology, coastal adaptations to sea level rise, Latin American studies, Indian civilizations of Middle & South America, Mayan coastal trade, canoe navigation, salt works, GIS
James Catano	Professor	225-578-3140	catano@lsu.edu	English and Screen Arts	Rhetorical and critical theory, gender studies, nonfiction film and prose, Louisiana fishing industry

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Kari Fitzmorris Brisolara	Associate Professor and Associate Dean for Academic Affairs	504-568-5725	kbriso@lsuhsc.edu	Environmental and Occupational Health Sciences	Environmental health, waste treatment and reuse, public health
Kathleen A. Bratton	Associate Professor	225-578-3244	bratton@lsu.edu	Department of Political Sciences	State legislative behavior, gender politics, policy outcomes, social networks, social communication, disaster response, emotional response to disaster
Katie E. Cherry	Professor	225-578-4099	pskatie@lsu.edu	Psychology	Post-Katrina resilience and long-term recovery, disaster stress, cognitive aging, disaster, resilience, recovery
Marc Aubanel	Director of Digital Media Arts & Engineering	225-578-8907	maubanel@cct.lsu.edu	School of Art	Boating, GIS app programming and development for WAVE (a Waterway Information for Vessels Smartphone App)
Mark J. Schafer	Associate Professor	225-578-5357	mschaf1@lsu.edu	Department of Sociology	Impacts of demographic, technological, and social change, long- and short-term social and demographic shifts in the Gulf of Mexico Region
Matthew R. Lee	Professor	225-578-5841	mlee@lsu.edu	Sociology	Public and community health patterns, community resilience, coastal disasters

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Michael Pasquier	Professor	225-578-2271	mpasquier@lsu.edu	History, Philosophy & Religious Studies; Center for Collaborative Knowledge	American environmental history, American religious history, history of the Mississippi River, history of coastal Louisiana, coastal history and culture
Nina Lam	Professor	225-578-6197	nlam@lsu.edu	Environmental Sciences	Geographic information science, remote sensing, environmental health, resilience, sustainability
Peter Clift	Professor	225-578-2153	pclift@lsu.edu	Department of Geology & Geophysics	Sedimentary geology, marine geology, geoarchaeology, climatic and anthropogenic impacts on environment in monsoonal Asia, Asian marginal seas, subsidence analysis
Priscilla D. Allen	Professor	225-578-1325	pallen2@lsu.edu	School of Social Work	Aging and long-term care, sexuality and older adults, disaster planning and recovery with vulnerable persons, social and environmental justice
Prosanta Chakrabarty	Associate Professor	225-578-3079	prosanta@lsu.edu	Department of Biological Sciences	fish biology, ichthyology, evolution biology, evolution of bioluminescent systems, phylogenetic systematics, geometric morphometrics, freshwater and cave fishes
Rebeca De Jesus Crespo	Assistant Professor	225-578-4293	rdejesuscrespo1@lsu.edu	Environmental Sciences	Environmental conservation, sustainable development, ecosystem services, public health, agricultural land and water use, urban watersheds
Renee Edwards	Professor	225-578-6821	edwards@lsu.edu	Department of Communication Studies	Communication theory, risk communication, risk and decision-making, cognitive processing of weather and climate information
Tim Slack	Professor	225-578-1116	slack@lsu.edu	Sociology	Social stratification & poverty, community & environment, social demography, coastal disasters

Name	Title	Phone	Email	Department / Center / Institute	Research interests
Timothy F. Page	Professor Emeritus	225-578-1358	tpage2@lsu.edu	School of Social Work	Children's narratives, child mental health, attachment theory, impact of Hurricanes Katrina and Rita on early educational settings and children
Tracey E. Rizzuto	Professor	225-578-2453	trizzut@lsu.edu	School of Leadership & Human Resource Development	Workplace disaster recovery, aging workforce dynamics, social capital and capacity development, workplace technology, aging of Gulf of Mexico oil and gas industry workforce
William Robinson	Associate Professor and Director of Graduate Studies	504-568-5796	wrobin@lsuhsc.edu	Behavioral & Community Health Sciences	Natural disasters, mental health, Hurricane Katrina, BP oil spill, research methods in health sciences, statistical analysis, health behaviors
Yejun Wu	Associate Professor	225-578-1489	wuyj@lsu.edu	School of Library & Information Science	knowledge organization systems (taxonomy, thesaurus, topic maps, and ontology), information retrieval systems (cross-language information retrieval and text classification), digital libraries, semantic analysis of text-based on computational linguistics, data-driven knowledge discovery
Yoshinori Kamo	Professor	225-578-5353	kamo@lsu.edu	Sociology	Social inequality, psychological well-being, elderly people who either evacuated from the New Orleans area or were affected by the hurricane in Baton Rouge