
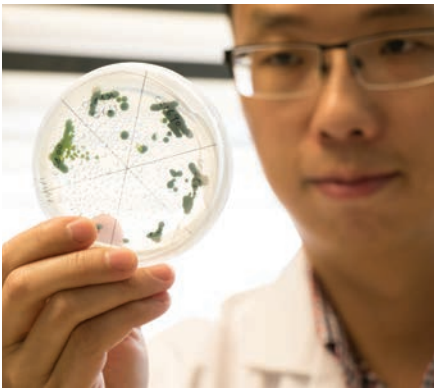



GUIDE TO EXPERTS

University of Maryland Center for Environmental Science

2024

HARNESSING THE POWER OF SCIENCE to transform the way society understands and manages the environment

A globally eminent research and graduate institution focused on advancing scientific knowledge of the environment, the **University of Maryland Center for Environmental Science** provides sound advice to help state and national leaders and prepares future scientists to meet the global challenges of the 21st century.

RESEARCH

We work across disciplines and in diverse settings—from the Appalachian Mountains to the Arctic—seeking solutions that improve people's lives and sustain the natural world.

PUBLIC SERVICE

As trusted scientific advisors, our faculty provide unbiased research to inform management decisions and public policy on pressing environmental issues in our communities and around the world.

EDUCATION

Our renowned faculty train the next generation of environmental leaders as part of the University System of Maryland's nationally ranked graduate program in marine and environmental science.

POPULAR TOPICS

CHESAPEAKE BAY RESTORATION

CHESAPEAKE BAY RESTORATION **Bill Dennison**, Professor: Coastal ecosystem ecology, assessing ecosystem health dennison@umces.edu

CRABS: **Thomas Miller**, Professor: Recruitment and population dynamics of aquatic animals miller@umces.edu

FISHERIES: **David Secor**, Professor: Migration and population ecology of marine fishes, biotelemetry, otolith tracers, fisheries and protected species, offshore wind impacts secor@umces.edu

OYSTER HATCHERY: **Stephanie Alexander**, Oyster Hatchery Manager: Production of oyster larvae, seed, spat on shell, restoration, aquaculture tobash@umces.edu

OYSTERS: **Michael Wilberg**, Professor: Population dynamics, quantitative fisheries, stock assessment, management strategy evaluation, fisheries management wilberg@umces.edu

SEA LEVEL RISE: **Ming Li**, Professor: Physical oceanography, estuarine and coastal dynamics, regional impacts of climate change and extreme weather events mingli@umces.edu

CLIMATE CHANGE

Victoria Coles, Professor: Climate variability and change, observations and modeling of ocean and estuarine ecology, biogeochemistry and circulation vcoles@umces.edu

Matthew Fitzpatrick, Professor: Spatial modeling, quantitative ecology, biogeography, macro-ecology, biodiversity, climate change, biological invasions mfitzpatrick@umces.edu

Hali Kilbourne, Associate Professor: Paleoclimatology and paleoceanography, contextualizing modern climate change and explor-ing the processes causing seasonal to centennial climate variability kilbourn@umces.edu

SEA LEVEL RISE: **Ming Li**, Professor: Physical oceanography, estuarine and coastal dynamics, regional impacts of climate change and extreme weather events mingli@umces.edu

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TOPICS OF EXPERTISE

AGRICULTURAL/ LAND IMPACTS

Eric Davidson, Professor: Biogeochemistry and soil microbial ecology in forests and agriculture, greenhouse gas emissions, water quality edavidson@umces.edu

Tom Fisher, Professor: Terrestrial and atmospheric nutrient inputs, nutrient cycling and limitation fisher@umces.edu

Xin Zhang, Professor: Environmental science and policy, biogeochemical cycles of carbon and nitrogen, earth system modeling, atmospheric-biosphere interactions xin.zhang@umces.edu

ALGAL BLOOMS

Pat Glibert, Professor: Phytoplankton ecology, nitrogen uptake and mineralization by plankton, primary production and photosynthesis glibert@umces.edu

Judy O'Neil, Research Associate Professor: Cyanobacteria ecophysiology & plankton trophodynamics joneil@umces.edu

Allen Place, Professor: Genomics of toxin-producing dinoflagellates, mitigation of cyanobacteria blooms place@umces.edu

ALTERNATIVE ENERGY

Feng Chen, Professor: Marine microbial ecology, microbial diversity, genomics, clean green biotechnology chenf@umces.edu

Russell Hill, Professor: Bacteria and marine invertebrate symbiosis, microalgae and biofuels hill@umces.edu

Yantao Li, Associate Professor: Microalgal molecular biology and lipid biochemistry, biotechnology and environmental bioremediation, metabolic engineering for biofuels and bioproducts yantao@umces.edu

IMPACT ON MARINE LIFE—
David Secor, Professor: Migration and population ecology of marine fishes, biotelemetry, otolith tracers, fisheries and protected species, offshore wind impacts secor@umces.edu

CHEMISTRY & TOXICOLOGY

Michael Gonsior, Professor: Chemical diversity of complex dissolved organic matter in aquatic and engineered systems, disinfection by-products, photochemistry, marine biogeochemistry gonsior@umces.edu

Andrew Heyes, Research Professor: Trace metal geochemistry, mineral weathering, contaminant transport and hydrology, sedimentology, wetlands and aquatic chemistry heyes@umces.edu

Carys Mitchelmore, Professor: Detection of chemical contaminants, understanding toxicity/ implications to organism and ecosystem health. mitchelmore@umces.edu

Christopher Rowe, Associate Professor: Physiological ecology, ecotoxicology, herpet-ology rowe@umces.edu

Johan Schijf, Associate Professor: Aqueous biogeochemistry of trace metals schijf@umces.edu

CHESAPEAKE BAY RESTORATION

Walter Boynton, Professor Emeritus: Systems ecology, nutrient cycling in estuarine systems, estuarine restoration, management/policy boynton@umces.edu

Jeff Cornwell, Research Professor: Beneficial use of dredged materials for wetland

restoration, water quality effects of dredging
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Bill Dennison, Professor: Coastal ecosystem ecology, bioindicators in nearshore environments, assessing ecosystem health
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Matthew Gray, Associate Professor: Ecophysiology of bivalves, ecological restoration, ecosystem services, aquaculture
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Jeremy Testa, Professor: Estuarine biogeochemistry, dissolved oxygen cycling, numerical modeling, estuarine systems ecology
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Lisa Wainger, Research Professor: Environmental economics, integrated ecological and economic modeling, ecosystem services, environmental restoration, water quality trading
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CLIMATE CHANGE

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Matthew Fitzpatrick, Professor: Spatial modeling, quantitative ecology, bio-geography, macroecology, biodiversity, climate change, biological invasions
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Matt Houser, Assistant Professor: Human dimensions of environmental change: public, farmer decision-making, and socio-ecological systems
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Hali Kilbourne, Associate Professor: Paleoclimatology and paleoceanography, contextualizing modern climate change and the processes causing climate variability
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Ming Li, Professor: Physical oceanography, estuarine/ coastal dynamics, regional impacts of climate change and extreme weather events mingli@umces.edu

ARCTIC RESPONSE—
Lee Cooper, Research Professor: Stable and radioisotope composition of organic materials and natural waters, aquatic plant physiology, high latitude oceanography and hydrology
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Jackie Grebmeier, Research Professor: Ecological responses of Arctic continental shelves to climate change, benthic ecology/marine ecosystem dynamic; connections among sea-ice coverage, water column processes and sea-floor organisms
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"What you do with coastline management has huge implications in terms of how the tides and storm sturge in Chesapeake Bay respond to sea-level rise. Climate change is real; sea-level rise is happening. We have to understand it and plan for it right now."

—Oceanographer Ming Li , co-author of "Sea-level rise projections for Maryland"

"The work that we do here understanding how living shorelines perform in the Chesapeake Bay informs federal and state agencies about how they can better manage and permit these structures. Folks everywhere want to know what is the best way to protect our shorelines."

—Coastal restoration expert Cindy Palinkas on living shorelines

WILDFIRE—

Mark Cochrane, Professor: Earth systems science, wildland fire, climate change, ecology, land cover change mark.cochrane@umces.edu

COASTAL ECOSYSTEMS

Jeff Cornwell, Research Professor: Sediment biogeochemistry, nutrient/metal/sulfur cycling in estuaries and coastal wetlands cornwell@umces.edu

Lora Harris, Professor: Systems ecology, coastal ecology, biogeochemistry, numerical modeling, metabolic rates lharris@umces.edu

Ming Li, Professor: Physical oceanography, estuarine and coastal dynamics, regional impacts of climate change and extreme weather events, biological-physical interactions mingli@umces.edu

William Nardin, Assistant Professor: Impact of storms and sea-level rise on wetlands ecogeomorphology, interaction between river (and estuaries), hydrodynamics and coastal processes wnardin@umces.edu

Cindy Palinkas, Associate Professor : Geological oceanography, sediment transport and deposition in intertidal, fluvial, and estuarine environments, tidal marshes response to environmental change cpalinkas@umces.edu

Larry Sanford, Professor: Estuarine and coastal physical oceanography, fine sediment transport, boundary layers and turbulence, interdisciplinary processes in shallow water lsanford@umces.edu

Lorie Staver, Assistant Professor, Environmental science, wetland ecology, restoration ecology lstaver@umces.edu

Ryan Woodland, Assistant Professor: Trophic ecology, fish ecology, anthropogenic effects and climate change, stable isotope ecology woodland@umces.edu

CRABS

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Michael Wilberg, Professor: Population dynamics, quantitative fisheries, stock assessment, management strategy evaluation, fisheries management wilberg@umces.edu

EDUCATION & PUBLIC ENGAGEMENT

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FISHERIES

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Genny Nesslage, Associate Research Professor: Fish and wildlife population dynamics and modeling, fisheries stock assessment, biological invasions, quantitative ecology
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Elizabeth North, Professor: Fisheries oceanography with emphasis on finfish and shellfish in estuaries, circulation and particle trajectory modeling
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Allen Place, Professor: Elucidation of molecular mechanisms that permit organisms to adapt, sustainable fish feeds for aquaculture
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Kenny Rose, Professor: Ecological modeling, fisheries assessment and management
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FORESTS & TERRESTRIAL ECOLOGY

Mark Cochrane, Professor: Earth systems science, wildland fire, climate change, ecology, land cover change, remote sensing
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GENOMICS & GENETICS

Tsvetan Bachvaroff, Associate Research Professor: DNA sequence analysis; Single cell PCR, sequencing, and sequence analysis; establishing dinoflagellate cultures.
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Katharina Engelhardt, Associate Research Professor: Plant biodiversity, restoration ecology, wetland ecology, aquatic botany, invasion ecology and roadside grasses
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Robert Hilderbrand, Associate Professor: Stream ecology and conservation; stream assessment, monitoring, and restoration; watershed

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Allen Place, Professor: Elucidation of the molecular mechanisms that permit organisms to adapt to unique circumstances, molecular basis of sex determination
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Eric Schott, Associate Research Professor: Application of genome-targeted approaches in aquatic health
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INVASIVE SPECIES

Katharina Engelhardt, Associate Research Professor: Plant biodiversity, wetland ecology, aquatic botany, invasion ecology
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Matthew Fitzpatrick, Professor: Modeling the spread of invasive species, macroecology, biodiversity, climate change, quantitative ecology
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Genny Nesslage, Associate Research Professor: Fish and wildlife population dynamics and modeling, invasive species dynamics, quantitative ecology
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Mario Tamburri, Professor: Invasive species ecology (prevention/management), sustainable urban waterfronts, environmental technologies and observing
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Lisa Wainger, Research Professor: Modeling economic benefits of management, assessment of invasive species, environmental economic indicators
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MARINE FOOD WEB

Hongsheng Bi, Associate Professor: Population modeling, zooplankton ecology, spatial statistics
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MICROBIAL BIOLOGY

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Clara Fuchsman, Assistant Professor: Biogeochemical cycles, microbial ecology, sinking particles, anoxic environments/ oxygen minimum zones
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Russell Hill, Professor: Bacteria and marine invertebrates symbiosis, molecular and culture-based studies of symbiotic bacteria, microalgae, biofuels
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Sairah Malkin, Assistant Professor: Biogeochemistry, microbial ecology, benthic ecology, geochemical cycling in aquatic systems
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NUTRIENT DYNAMICS

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OCEAN SCIENCE

BIOLOGICAL—
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Jackie Grebmeier, Research Professor: Arctic benthic ecology and marine ecosystem dynamics, connections among sea ice coverage, water column processes and sea-floor organisms jgrebmei@umces.edu

Raleigh Hood, Professor: Models to simulate and predict biogeochemical and ecological variability in marine environments rhood@umces.edu

Ming Li, Professor: Estuarine and coastal dynamics, regional impacts of climate change and extreme weather events mingli@umces.edu

Judy O'Neil, Research Associate Professor: Cyanobacteria ecophysiology and

"Within the lifetime of children living today, the climate of many regions is projected to change from the familiar to conditions unlike those experienced in the same place by perhaps any generation. ."

—Matt Fitzpatrick created the Future Urban Climates app

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PHYSICAL—
Lee Cooper, Research Professor: Stable and radioisotope composition of organic materials and natural waters, aquatic plant physiology, high latitude oceanography and hydrology
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Victoria Coles, Professor: Climate variability and change, observations and modeling of ocean and estuarine ecology, biogeochemistry and circulation modeling
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Joe Jurisa, Assistant Professor: Mixing and transport processes in estuarine and coastal systems jjurisa@umces.edu

Larry Sanford, Professor: Estuarine and coastal physical oceanography, fine sediment transport, boundary layers and turbulence, interdisciplinary processes in shallow water
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Jian Zhao, Assistant Professor: Mesoscale and sub-mesoscale processes, ocean's role in climate, geophysical fluid dynamics
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OYSTERS

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Matthew Gray, Associate Professor: Ecophysiology of bivalves, ecological restoration, ecosystem services, aquaculture
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Elizabeth North, Professor: Fisheries oceanography with em-phasis on finfish/shellfish in estuaries, circulation and particle trajectory modeling
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Michael Wilberg, Professor: Population dynamics, quantitative fisheries, stock assessment, management strategy evaluation,

"Decoding the blue crab genome enables us to decode the factors providing resiliency of the blue crab to climate change and disease in the Chesapeake Bay and beyond."

— Biochemist Sook Chung led the effort to sequence the genome of blue crab

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SOCIOECONOMIC MODELING

Lisa Wainger, Research Professor: Cost-effective environmental restoration strategies, value of ecosystem services, and other environmental economic modeling
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Xin Zhang, Professor: Environmental science and policy, biogeochemical cycles of carbon/nitrogen, earth system modeling
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STATISTICS

Dong Liang, Associate Research Professor: Spatial sampling, remote sensing, environmental health, bayesian data analyses, spatiotemporal modeling
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Vyacheslav Lyubchich, Associate Research Professor: Time series analysis, forecasting, applied statistics,nonparametric inference, machine learning
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STREAM HEALTH & RESTORATION

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Solange Filoso, Associate Research Professor: Biogeochemistry, freshwater ecosystems, urban streams, stream restoration, watershed science
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URBAN WATERFRONTS

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Eric Schott, Associate Research Professor: Molecular detection and characterization of aquatic invertebrates, pathogens and viruses, soft-shell crabs
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Mario Tamburri, Professor: Sustainable urban waterfronts; environmental technologies and observing; chemical ecology of aquatic organisms; invasive species ecology and prevention
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Ryan Woodland, Professor: Trophic ecology, fish ecology, anthropogenic effects and climate change, stable isotope ecology
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WATER QUALITY

Walter Boynton, Professor Emeritus: Systems ecology, nutrient cycling in estuarine systems, estuarine restoration, management/ policy
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Bill Dennison, Professor: Ecology of marine plants, assessing ecosystem health, Chesapeake Bay report card
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WILDLIFE ECOLOGY

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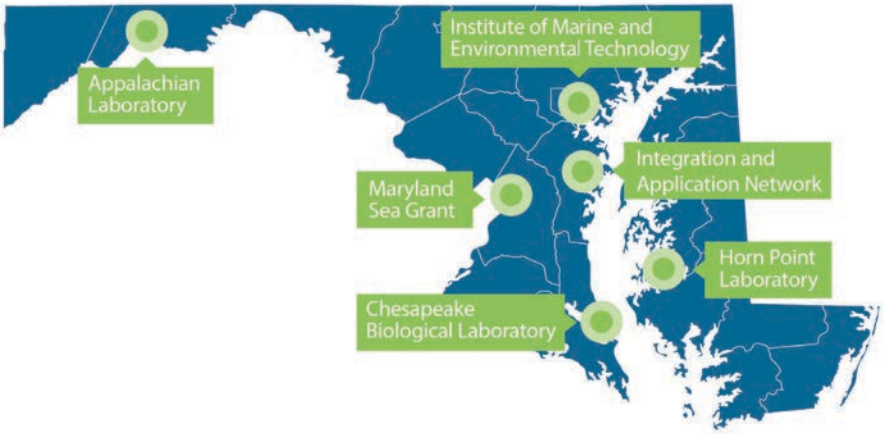

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