

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 exploring 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

CONNECT WITH AN EXPERT:

410-330-1389 | umcescommunications@umces.edu

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
cornwell@umces.edu

Bill Dennison, Professor:
Coastal ecosystem ecology, bioindicators in nearshore environments, assessing ecosystem health
dennison@umces.edu

Matthew Gray, Associate Professor:
Ecophysiology of bivalves, ecological restoration, ecosystem services, aquaculture
mgray@umces.edu

Jeremy Testa, Professor:
Estuarine biogeochemistry, dissolved oxygen cycling, numerical modeling, estuarine systems ecology
jtesta@umces.edu

Lisa Wainger, Research Professor:
Environmental economics, integrated ecological and economic modeling, ecosystem services, environmental restoration, water quality trading
wainger@umces.edu

CLIMATE CHANGE

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

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

Matt Houser, Assistant Professor:
Human dimensions of environmental change: public, farmer decision-making, and socio-ecological systems
mhouser@umces.edu

Hali Kilbourne, Associate Professor:
Paleoclimatology and paleoceanography, contextualizing modern climate change and the

processes causing climate variability
kilbourn@umces.edu

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
cooper@umces.edu

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
jgrebmei@umces.edu



“What you do with coastline management has huge implications in terms of how the tides and storm surge 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

J. Sook Chung, Professor: Neuroendocrine regulation on crustacean physiology of molting, growth, reproduction, sex differentiation, and stress responses chung@umces.edu

Thomas Miller, Professor: Recruitment and population dynamics of aquatic animals, fish early-life history, blue crabs miller@umces.edu

Eric Schott, Associate Research Professor: Molecular detection and characterization of aquatic invertebrates, pathogens and viruses, soft-shell crabs schott@umces.edu

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

EDUCATION & PUBLIC ENGAGEMENT

Heath Kelsey, Director, Integration and Application Network: Conversations at the intersection of science/community/environment; scientific report cards on environmental restoration hkelsey@umces.edu

Fredrika Moser, Director, Maryland Sea Grant: Marine science policy, science education, SEAS Island Alliance, REU Program moser@mdsg.umd.edu

Larry Sanford, Professor and Vice President for Graduate Education: Estuarine and coastal physical oceanography, MEES graduate program lsanford@umces.edu

Cathlyn Davis Principal Agent: Public engagement with science, citizen science, environmental education, educator professional development, education program design and evaluation cathlyn.davisi@umces.edu

FISHERIES

Victor S. Kennedy, Professor Emeritus: Historical exploitation of fisheries in Chesapeake Bay kennedy@umces.edu

Thomas Miller, Professor: Recruitment and population dynamics of aquatic animals, fish early-life history, blue crabs miller@umces.edu

Genny Nesslage, Associate Research Professor: Fish and wildlife population dynamics and modeling, fisheries stock assessment, biological invasions, quantitative ecology nesslage@umces.edu

Elizabeth North, Professor: Fisheries oceanography with emphasis on finfish and shellfish in estuaries, circulation and particle trajectory modeling enorth@umces.edu

Allen Place, Professor: Elucidation of molecular mechanisms that permit organisms to adapt, sustainable fish feeds for aquaculture place@umces.edu

Kenny Rose, Professor: Ecological modeling, fisheries assessment and management krose@umces.edu

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

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

FORESTS & TERRESTRIAL ECOLOGY

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

Keith Eshleman, Professor: Hydrology, watershed ecology, biogeochemistry of freshwater and groundwater keshleman@umces.edu

David Nelson, Professor: Stable isotope, biogeochemistry, and microbial ecology, global change, paleoecology dnelson@umces.edu

GENOMICS & GENETICS

Tsvetan Bachvaroff, Associate Research Professor: DNA sequence analysis; Single cell PCR, sequencing, and sequence analysis; establishing dinoflagellate cultures. bachvaroff@umces.edu

Katharina Engelhardt, Associate Research Professor: Plant biodiversity, restoration ecology, wetland ecology, aquatic botany, invasion ecology and roadside grasses kengelhardt@umces.edu

Robert Hilderbrand, Associate Professor: Stream ecology and conservation; stream assessment, monitoring, and restoration; watershed

responses to land use and land cover change; brook trout
rhilderbrand@umces.edu

Rose Jagus, Professor
Translational control of gene expression
jagus@umces.edu

Allen Place, Professor:
Elucidation of the molecular mechanisms that permit organisms to adapt to unique circumstances, molecular basis of sex determination
place@umces.edu

Eric Schott, Associate Research Professor:
Application of genome-targeted approaches in aquatic health
schott@umces.edu

INVASIVE SPECIES

Katharina Engelhardt, Associate Research Professor: Plant biodiversity, wetland ecology, aquatic botany, invasion ecology
kengelhardt@umces.edu

Matthew Fitzpatrick, Professor: Modeling the spread of invasive species, macroecology, biodiversity, climate change, quantitative ecology
mfitzpatrick@umces.edu

Genny Nesslage, Associate Research Professor: Fish and wildlife population dynamics and modeling, invasive species dynamics, quantitative ecology
nesslage@umces.edu

Mario Tamburri, Professor: Invasive species ecology (prevention/management), sustainable urban waterfronts, environmental technologies and observing
tamburri@umces.edu

Lisa Wainger, Research Professor: Modeling economic benefits of management, assessment of invasive species, environmental economic indicators
wainger@umces.edu

MARINE FOOD WEB

Hongsheng Bi, Associate Professor: Population modeling, zooplankton ecology, spatial statistics
hbi@umces.edu

James Pierson, Professor: Biological oceanography, plankton ecology, trophic dynamics, copepods
jpierson@umces.edu

Ryan Woodland, Associate Professor (CBL): Coastal food webs, trophic ecology, fish ecology, anthropogenic effects and climate change, stable isotope ecology
woodland@umces.edu

MICROBIAL BIOLOGY

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

Jacob Cram, Assistant Professor: Microbial ecology, biogeochemistry, biological oceanography, mechanistic and statistical modelling
jcram@umces.edu

Clara Fuchsman, Assistant Professor: Biogeochemical cycles, microbial ecology, sinking particles, anoxic environments/oxygen minimum zones
cfuchsman@umces.edu

Russell Hill, Professor: Bacteria and marine invertebrates symbiosis, molecular and culture-based studies of symbiotic bacteria, microalgae, biofuels
hill@umces.edu

Sairah Malkin, Assistant Professor: Biogeochemistry, microbial ecology, benthic ecology, geochemical cycling in aquatic systems
smalkin@umces.edu

Allen Place, Professor: Elucidation of molecular mechanisms that permit organisms to adapt to unique circumstances, molecular basis of sex determination
place@umces.edu

NUTRIENT DYNAMICS

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

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

Eric Davidson, Professor: Biogeochemistry, soil microbial ecology nutrient cycles in forests/agriculture, including greenhouse gases emissions and water quality. edavidson@umces.edu

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

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

Laura Lapham, Professor: Methane emissions from aquatic environments, biogeochemistry, hydrocarbon seeps, methane oxidation
lapham@umces.edu

Andrea Pain, Assistant Professor: Carbon and nutrient processes across the land-sea interface, Arctic processes, coastal groundwater
apain@umces.edu

Jeremy Testa, Professor: Estuarine biogeochemistry, dissolved oxygen cycling, numerical modeling, estuarine systems ecology
jtesta@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

OCEAN SCIENCE

BIOLOGICAL—

Jacob Cram, Assistant Professor: Microbial ecology, biogeochemistry, mechanistic and statistical modeling, microbial communities, marine snow
jcram@umces.edu

Clara Fuchsman, Assistant Professor: Biogeochemical cycles; microbial ecology and sinking particles in anoxic environments, oxygen minimum zones
cfuchsman@umces.edu

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

plankton trophodynamics
joneil@umces.edu

James Pierson, Professor:
Biological oceanography,
plankton ecology, trophic
dynamics, copepods
jpierson@umces.edu

Mike Sieracki, Professor,
Director Horn Point
Laboratory: Biological
oceanography, microbial
plankton ecology
msieracki@umces.edu

Greg Silsbe, Assistant
Research Professor: Role of
phytoplankton in global
carbon cycle, satellite
remote-sensing
gsilsbe@umces.edu

PHYSICAL—

Lee Cooper, Research
Professor: Stable and
radioisotope composition
of organic materials and
natural waters, aquatic
plant physiology, high
latitude oceanography and
hydrology
cooper@umces.edu

Victoria Coles, Professor:
Climate variability and

change, observations
and modeling of ocean
and estuarine ecology,
biogeochemistry and
circulation modeling
vcoles@umces.edu

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
lsanford@umces.edu

Diane Stoecker, Professor:
Biological oceanography
and plankton ecology,
microzooplankton,
mixotrophy
stoecker@umces.edu

Jian Zhao, Assistant
Professor: Mesoscale and
sub-mesoscale processes,
ocean's role in climate,
geophysical fluid dynamics
jianzhao@umces.edu

OYSTERS

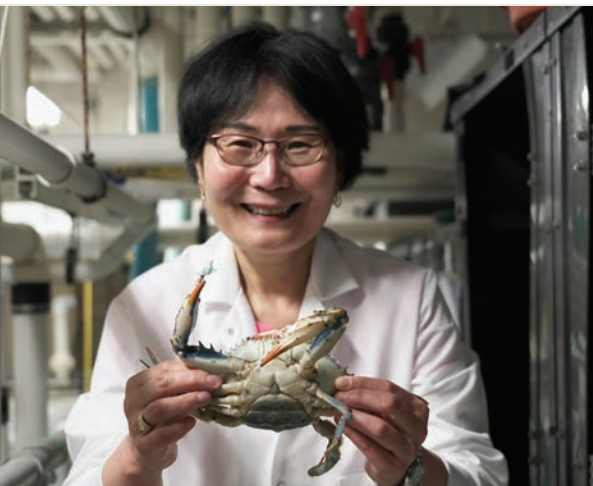
Stephanie Alexander,
Oyster Hatchery Manager:
Production of oyster
larvae, seed, spat-on-shell,
restoration, aquaculture
tbash@umces.edu

Matthew Gray, Associate
Professor: Ecophysiology
of bivalves, ecological
restoration, ecosystem
services, aquaculture
mgray@umces.edu

Elizabeth North, Professor:
Fisheries oceanography
with emphasis on finfish/
shellfish in estuaries,
circulation and particle
trajectory modeling
enorth@umces.edu

Kennedy Paynter,
Associate Professor:
Comparative physiology
of estuarine organisms,
oyster disease biochemistry
paynter@umces.edu

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

fisheries management
wilberg@umces.edu

SOCIOECONOMIC MODELING

Lisa Wainger, Research Professor: Cost-effective environmental restoration strategies, value of ecosystem services, and other environmental economic modeling
wainger@umces.edu

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

STATISTICS

Dong Liang, Associate Research Professor: Spatial sampling, remote sensing, environmental health, bayesian data analyses, spatiotemporal modeling
dliang@umces.edu

Vyacheslav Lyubchich, Associate Research Professor: Time series analysis, forecasting, applied statistics, nonparametric inference, machine learning
lyubchic@umces.edu

STREAM HEALTH & RESTORATION

Keith Eshleman, Professor: Hydrology, watershed ecology, biogeochemistry of freshwater and groundwater
keshleman@umces.edu

Solange Filoso, Associate Research Professor: Biogeochemistry, freshwater ecosystems, urban streams, stream restoration, watershed science
filoso@umces.edu

Robert Hilderbrand, Associate Professor: Stream ecology and conservation, stream assessment, monitoring, and restoration; watershed responses to land use and land cover change
rhilderbrand@umces.edu

URBAN WATERFRONTS

Allen Place, Professor: Elucidation of the molecular mechanisms that permit organisms to adapt to unique circumstances, HABs early warning system
place@umces.edu

Eric Schott, Associate Research Professor: Molecular detection and characterization of aquatic invertebrates, pathogens and viruses, soft-shell crabs
schott@umces.edu

Mario Tamburri, Professor: Sustainable urban waterfronts; environmental technologies and observing; chemical ecology of aquatic organisms; invasive species ecology and prevention
tamburri@umces.edu

Ryan Woodland, Professor: Trophic ecology, fish ecology, anthropogenic effects and climate change,

stable isotope ecology
woodland@umces.edu

WATER QUALITY

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

Bill Dennison, Professor: Ecology of marine plants, assessing ecosystem health, Chesapeake Bay report card
dennison@umces.edu

Keith Eshleman, Professor: Hydrology, watershed ecology, biogeochemistry of freshwater and groundwater
keshleman@umces.edu

Solange Filoso, Associate Research Professor: Biogeochemistry, freshwater ecosystems, urban streams, stream restoration, watershed science
filoso@umces.edu

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

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

Lora Harris, Professor:
Impact of management
Systems ecology, coastal
ecology, biogeochemistry,
numerical modeling,
metabolic rates
harris@umces.edu

**Fernando Miralles-
Wilhelm**, President: Water
resources and watersheds,
ecosystem restoration,
biodiversity, and
conservation science
fmiralles@umces.edu

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

Judy O'Neil, Research
Associate Professor:
Cyanobacteria eco-
physiology and plankton
trophodynamics
joneil@umces.edu

Andrea Pain, Assistant
Professor: Carbon and
nutrient processes across
the land-sea interface,
Arctic processes, coastal
groundwater
apain@umces.edu

Greg Silsbe, Assistant
Research Professor: Role of
phytoplankton in global
carbon cycle, satellite
remote-sensing, tropical
limnology
gsilsbe@umces.edu

Jeremy Testa, Professor:
Estuarine biogeochemistry,
dissolved oxygen cycling,

numerical modeling,
estuarine systems ecology
jtesta@umces.edu

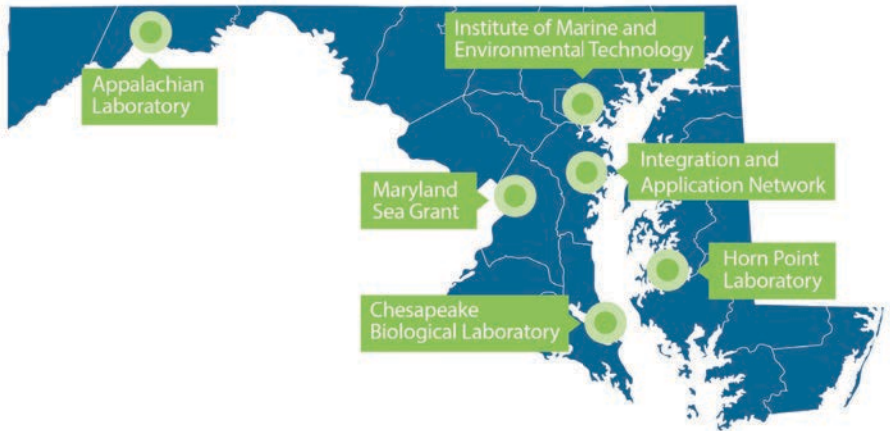
Qian Zhang, Watershed
Effectiveness Data Analyst:
Environmental science,
water quality, watershed,
nutrients, statistics,
modeling, machine
learning, Chesapeake Bay
qzhang@umces.edu

WILDLIFE ECOLOGY

Emily Cohen, Associate
Professor: Animal
migration biology,
migratory connectivity,
stopover biology and
aeroecology, population
and behavioral ecology,
ornithology
emily.cohen@umces.edu

John Hoogland, Professor:
Evolution of social behavior,
wildlife ecology, and
behavior of prairie dog
populations
hoogland@umces.edu

Christopher Rowe,
Associate Professor:
Physiological ecology,
ecotoxicology, herpetology
rowe@umces.edu



University of Maryland Center for Environmental Science

President Fernando Miralles-Wilhelm

Headquarters

2020 Horns Point Road
Cambridge, MD 21613
www.umces.edu

Appalachian Laboratory

301 Braddock Road
Frostburg, MD 21532
301-689-7100

Chesapeake Biological Laboratory

146 Williams Street
Solomons, MD 20688
410-326-4281

Horn Point Laboratory

2020 Horns Point Road
Cambridge, MD 21613
410-228-8200

Institute of Marine and Environmental Technology

701 E. Pratt Street
Baltimore, MD 21202
410-234-8802

Integration and Application Network

429 Fourth Street
Annapolis, MD 21403
410-221-2005

Maryland Sea Grant College

5825 University Research Court, Suite 1350
College Park, MD 20737
301-405-7500

The University of Maryland Center for Environmental Science is one of 12 universities in the University System of Maryland.



University of Maryland
CENTER FOR ENVIRONMENTAL SCIENCE
umces.edu