

WATER QUALITY
Education
Food Web
Modeling

COASTAL RESILIENCE
HAB Aquaculture
Marine Science
sea grass MARSH
RESTORATION
OYSTER
RESTORATION

RESEARCH
SUSTAINABILITY
Climate Change
STUDENTS



Brief...and Interesting

News from the Horn Point Laboratory

New Horizons: Discovery, Experience, Collaboration

RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU'S) AT HPL

Horn Point Lab is abuzz with the energy of 7 undergraduate students living on campus for 12 weeks this summer. They hail from across the mid-Atlantic and are participating in the **Research Experiences for Undergraduates (REU)** program. This highly competitive program pairs



undergraduates with graduate university programs across the country. **Chelsea Fowler**, HPL Masters student, is the REU Liaison at the Horn Point Lab for the summer. Chelsea describes the experience, “It has been a pleasure to work with this group of budding scientists! This competitive program provides students with a hands-on experience that exposes them to the day-to-day work that comes with being a scientist. Students work under a faculty mentor and alongside graduate students and lab technicians, to develop a project, carry out research, and present findings. Some have conducted fieldwork, set up lab experiments, or learned new computer programs to collect and analyze data that addresses their research questions. Their projects ask questions about a wide variety of topics covering everything from oyster aquaculture in the Chesapeake Bay to marine snow in the depths of the Pacific Ocean.”

Left to right (back): Matthew Thompson - Gallaudet University, Jack Dozler - Loyola, Andrew Scott - Virginia Tech, (front) Sunnidae Gallien - Eastern Carolina University, Anji Cooper - University of Delaware, Dana Sanchez - Penn State University, Brandon Cabon - Gettysburg College

UMCES GRADUATES NEXT GENERATION OF ENVIRONMENTAL LEADERS

The University of Maryland Center for Environmental Science (UMCES) held its annual Commencement on Tuesday, May 24, featuring the conferral of master's and doctorate degrees, and keynote speaker **Dr.**

Deborah Bronk (HPL Ph.D. '92), oceanographer and President and CEO of the Bigelow Laboratory for Ocean Sciences.

Among the 23 graduates 4 PhD's were conferred to Horn Point Lab students; Christine Knauss, Lexy McCarty, Hannah Morrissette and Jason Spires. Yijun Guo received her Masters. Here are examples of what they are doing now;

Lexy McCarty now at the Virginia Institute for Marine Science (VIMS) as the Shellfish Aquaculture Extension/Research Specialist.

Hannah Morrissette is completing a postdoc at the Smithsonian Environmental Research Center's (SERC) Caribbean Coral Reef Ecosystem Program in Belize at the Carrie Bow Cay Field Station.

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2022 RYAN SABA MEMORIAL STUDENT FELLOWSHIP AWARDEE ANNOUNCED

Catherine Fitzgerald is the 8th recipient of the **Ryan Saba Memorial Student Fellowship**. The fellowship was established by his family and friends to honor and remember Ryan who was a research assistant at the Horn Point Laboratory beginning in the fall of 2013. Ryan died tragically in an automobile accident near the campus on July 13, 2014. He was well regarded by the Horn Point community as a friend and colleague.

Catherine's studies focus on the ecological interactions between Choptank larval fish, their zooplankton prey (tiny drifting animals), and their collective environment. The Fellowship's funds will allow Catherine to attend the annual science conference of the **International Council for the Exploration of the Seas (ICES)** held this September in Dublin, Ireland. Catherine and Ryan worked side-by-side during Ryan's time at the Horn Point Laboratory. Accepting the fellowship, Catherine shared, "In the spirit of how Ryan lived his life, I'm looking forward to presenting the results of my research, meeting colleagues, forming new connections with researchers around the globe, and exploring a new place- hopefully with new friends."



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Nicole Trenholm
ORP Field Scientist

VOYAGE TO GREENLAND TO STUDY EXTREMES OF CLIMATE CHANGE

Nicole Trenholm, HPL PhD student, is en route to Greenland's coast aboard R/V Marie Tharp. As the lead scientist for the **Ocean Research Project (ORP)** a

nonprofit she co-founded, Nicole is applying her scientific knowledge to collect data to map the subsurface of Greenland's fjords and coastal regions. This information will aid a better understanding of the complex combination of forces contributing to the rapidly melting Greenland ice sheet. ORP's data has assisted **NASA's Ocean-Ice Mission in Greenland**. **Follow** Nicole and ORP as they sail to Greenland. Watch the video of ORP's exploration of Greenland's coast to appreciate the challenges of gathering scientific data and the mystery of these remote and rapidly melting waters.

[WATCH VIDEO](#)

SCIENTIFIC EDUCATION RECEIVES SUPPORT FROM LOCAL IWLA CHAPTER



Bruna Sobrinho and **Laura Wiltsee**, graduate students from the Horn Point

Laboratory (HPL) received \$2,500 scholarships to advance their research and studies. This support has been a long running commitment of the MidShore Chapter of the Izaak Walton League of America (IWLA) to foster education and the environment. Sobrinho's studies focus on harmful algal blooms and the adverse effects on the environment and public health and Wiltsee's focus is oysters and how they interact with their environment. This year the Maryland Chapter of IWLA contributed an additional \$1,500 scholarship that went to **Nicole Trenholm**, HPL PhD student. Nicole was unable to attend the presentation as she was on the coast of Greenland doing summer field work studying the impacts of increased glacial meltwater discharge on the Earth's oceans.

Left to right; HPL Associate Professor, Jamie Pierson, other recipients and IWLA Scholarship Manager, Suzanne Sullivan Right front: HPL graduate students Laura Wiltsee and Bruna Sobrinho.

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OPENING MINDS

TO SCIENCE

Billy Atkinson, HPL

Masters student, visited the **Building African American Minds (BAAM)** facility in Easton to discuss the Marine Food Web and zooplankton and its importance to all of us. The kids looked at live zooplankton under the microscope, learned how a marine ecosystem changes with varying nutrient concentrations and through playing an interactive Ecosystem Model Game learned the important role oysters play by filtering our water.



SCIENCE IS FUN & SERVES EVERYONE!

TOUR HORN POINT - Tuesdays at 10:00 am

Walk the Horn Point campus and learn about physical oceanography, eDNA, water quality, coastal resilience, oysters in the Atlantic Coast's largest hatchery and more!

These 90 minute walking tours are FREE and open to the public. Tours are best suited for people 10 years and older.

Tours take place **every Tuesday at 10:00 am**, thru Labor day. For details, contact the outreach coordinator at 410-221-8383 or hpltours@umces.edu.



OPEN HOUSE returns to the Horn Point Laboratory. Save the Date!

Saturday, October 15

Free and open to the public. Hands-on activities for all ages to explore the world of marine science. Dive into science and see the Bay the Horn Point Way!

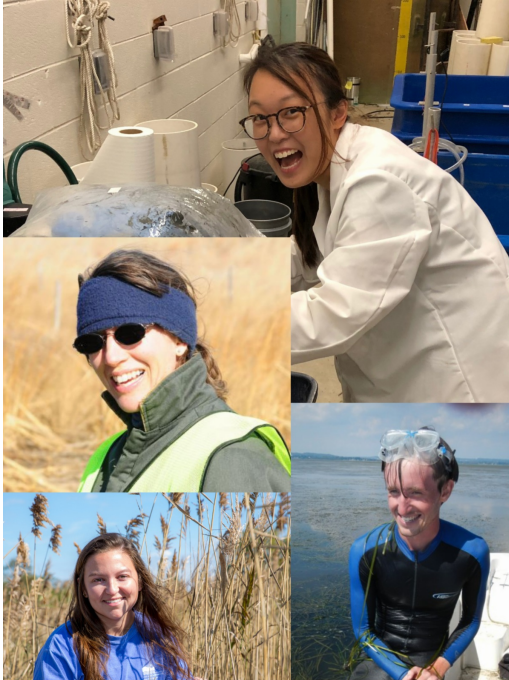


Help Support the work of Horn Point Lab

Are you committed to helping solve our environmental challenges? Perhaps you are passionate about educating the next generation of environmental leaders? Do you support science for its contributions to policy and advocacy work? By supporting the Horn Point Lab you can fulfill that purpose.

Even the smallest gift makes meaningful impact!

Visit our [Giving Page](#) or click on the link below.



Make a Gift

Located in Cambridge, MD, Horn Point Laboratory is part of the University of Maryland Center for Environmental Science -- a fully-accredited graduate school and research facility conducting environmental research on a variety of ecosystems spanning from the estuarine waters of the Chesapeake Bay to the open waters of the world's oceans. Horn Point is a national leader in applying environmental research and discovery to solve society's most pressing environmental problems.

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