



Hampton Roads Chamber

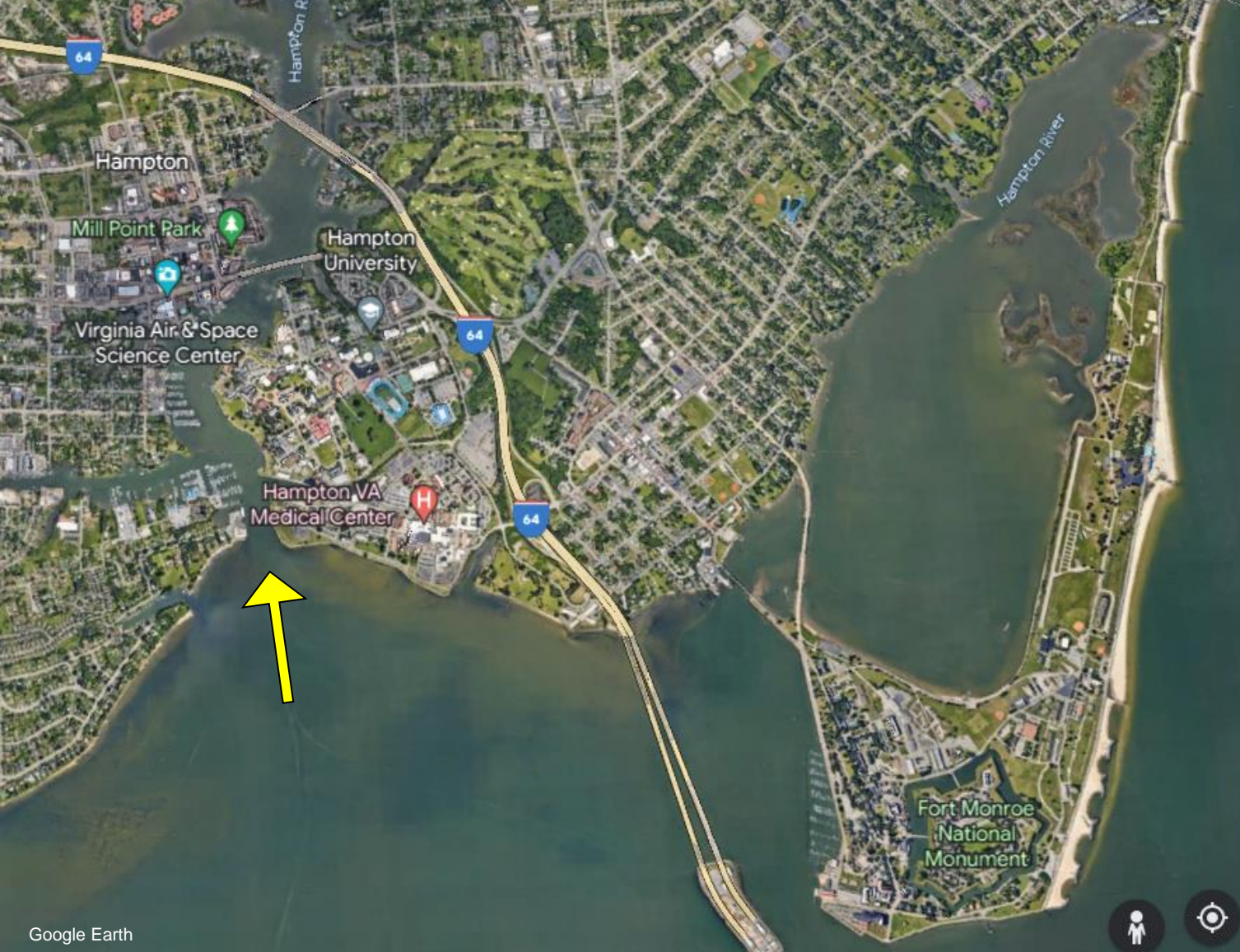
Oyster Restoration in Virginia's Hampton River

Chris Moore, CBF
Amira Layeni,
Hampton University
Lucia Ramirez-Joseph
Hampton University



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- Small Estuarine River
- Watershed Completely in One Municipality
- Highly Developed Watershed
- Limited Completed Restoration Activities
- Significant Marina and Seafood Landing Facilities



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Background



VoiCeS Course 2016
'Volunteers as Chesapeake Stewards'
 September 17th and 24th
 Old Point National Bank
 101 E Queen St, 6th Floor, Hampton, VA 23669



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**Why This
 Watershed**

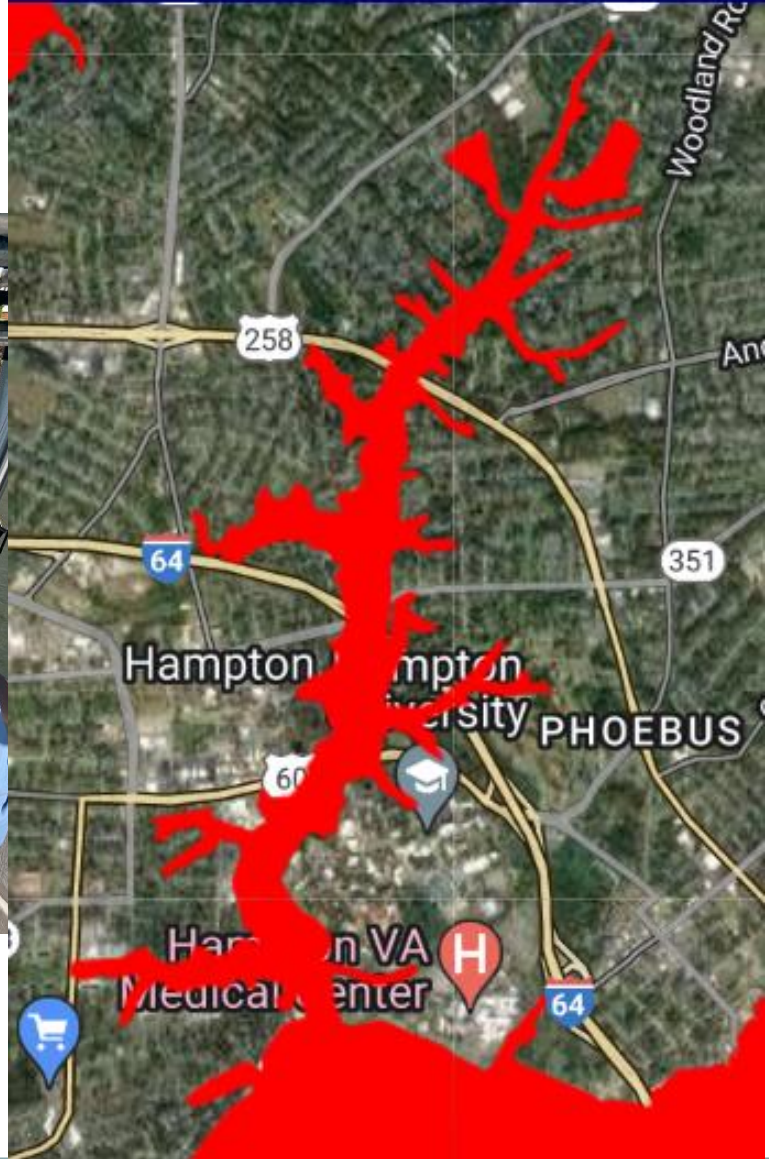


Terry Young/Air Aspects



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Restoration Resources



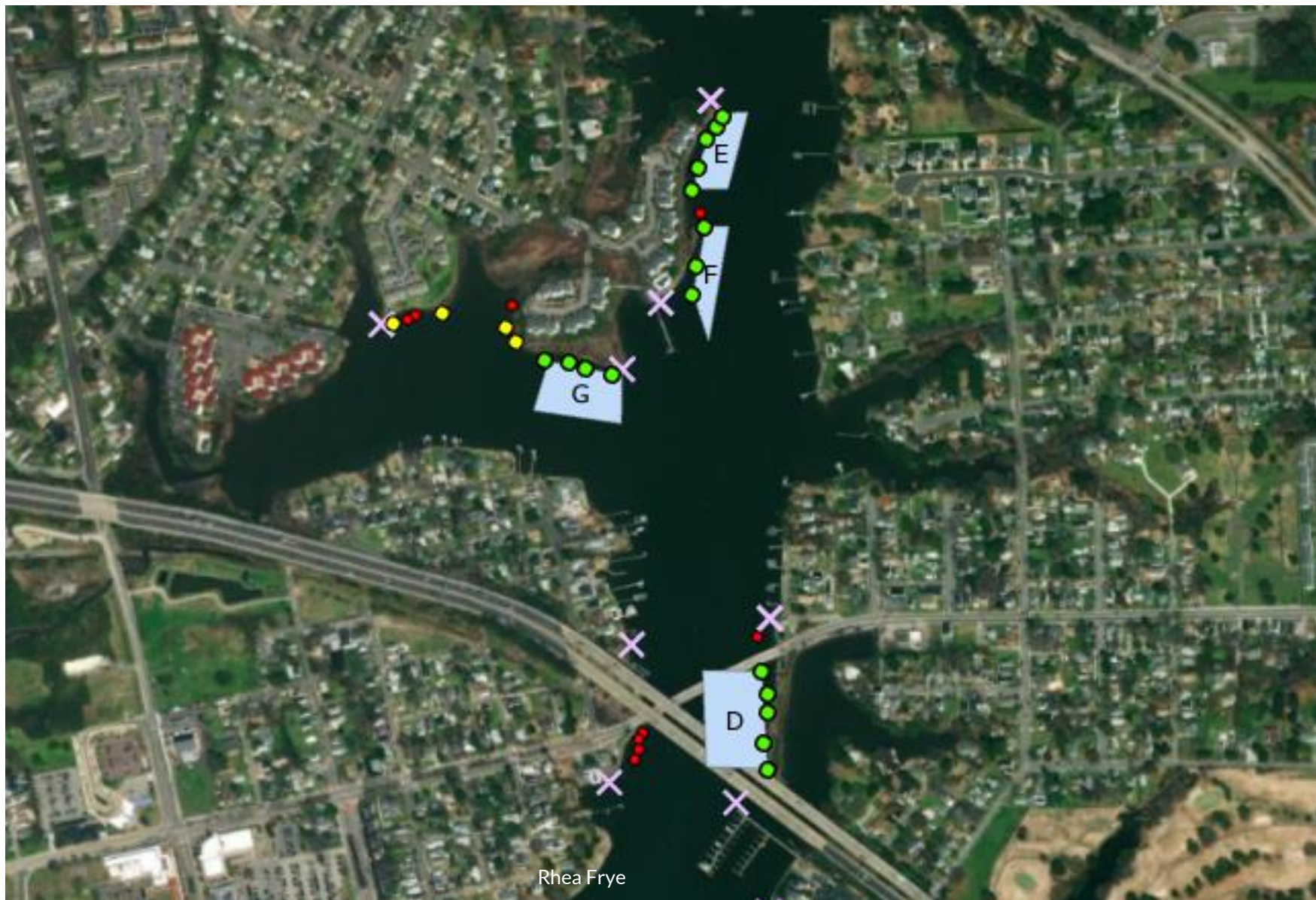
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Current Conditions



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Hampton River Restoration Investigations



Rhea Frye



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Hampton River Restoration Investigations

- Raised in Katy, Texas
- BS in Biology con Ecology/ Environmental Science from WV Wesleyan College
- MS Student in Marine & Environmental Science
 - NOAA LMRCSC Fellow



Amira Layeni



- NCAA DII Women's Basketball
- WE LEAD Animal Welfare & Sustainability
- Held positions in
 - Student Senate
 - Black Student Union
 - Tri-Beta

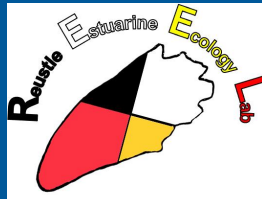
- Reforestation research
- Water quality research

Why Hampton?





Experience

- NOAA Living Marine Resource Cooperative Science Center (LMRCSC)
- Reustle Estuarine Ecology Lab (REEL) Shored Up
 - Oyster Paddle
 - Media Event
 - *Oyster Advocacy: Hampton University is Getting REEL With Oyster Research*
 - Shellebration Celebration
- CBF
 - COA Oyster Symposium
 - VoiCeS
- HU interdisciplinary group








Hampton University



Discovery and quantification of plastic particle pollution in human blood

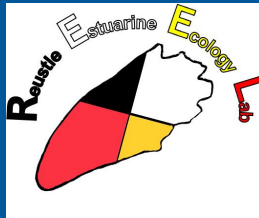
Heather A. Leslie^a, Martin J.M. van Velzen^a, Sicco H. Brandsma^a, A. Dick Vethaak^{a b},
Maria H. Lamoree^a  

Detection of various microplastics in placentas, meconium, infant feces, breastmilk and infant formula: A pilot prospective study

Shaojie Liu^{a 1} , Jialin Guo^{c 1} , Xinyuan Liu^{a 1} ,
Yongyun Sun^a , Bo Chen^{a b} , Ruih.

Microplastic pollution in deep-sea sediments and organisms of the Western Pacific Ocean ☆

Dongdong Zhang^a, Xidan Liu^a, Wei Huang^{b c}, Jingjing Li^a, Chunsheng Wang^b,
Dongsheng Zhang^b, Chunfang Zhang^a  



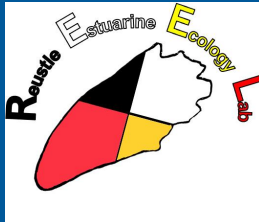
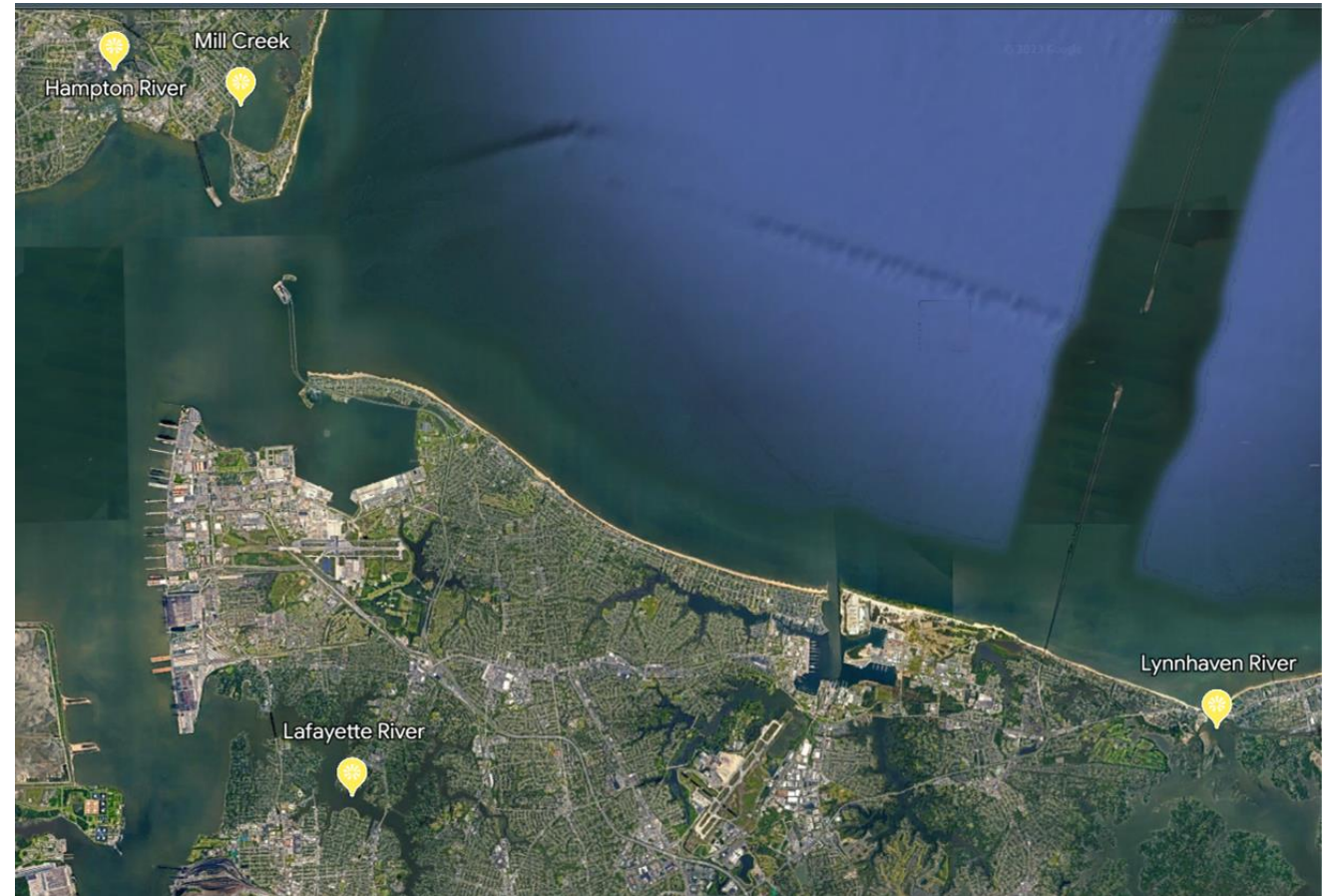
macro reach of microplastics

Thesis Project:

Quantifying abundance and polymer types of microplastics found in different sample types

- Eastern oyster (*C. virginica*) tissue
- reef-water
- oyster reef sediment

ASLO Multicultural Program 2023



Current Projects

- From Puerto Rico
- Swimmer, hiker, reader
- Bachelor's in Biology: University of North Carolina at Greensboro

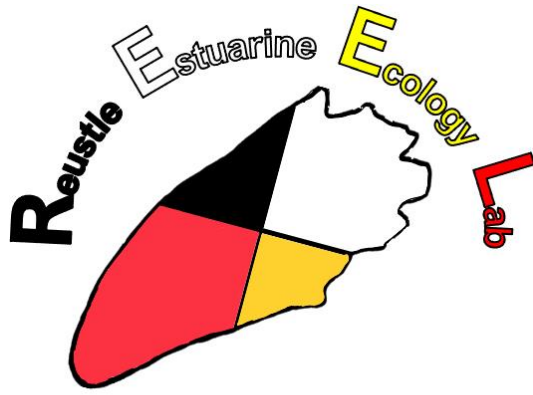


Lucia Ramirez-Joseph

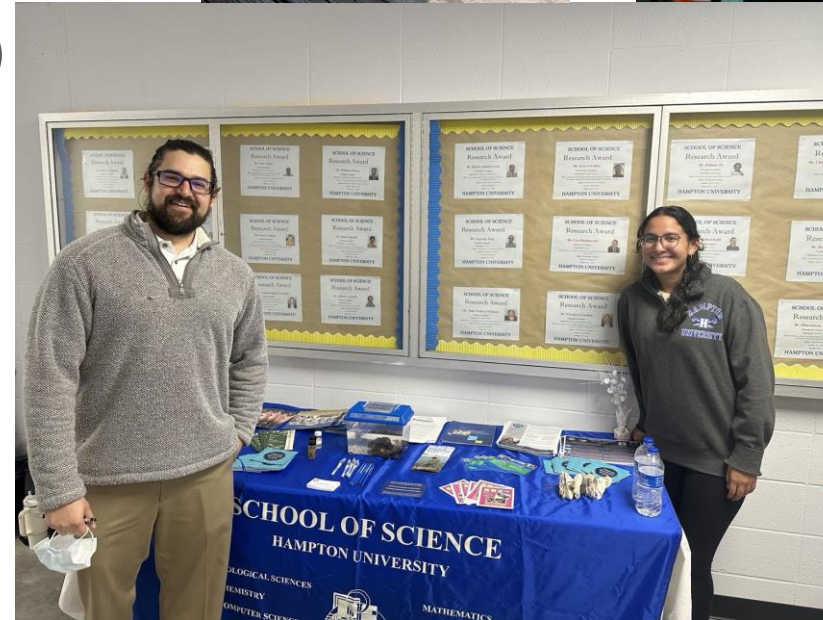
- Freshwater aquatic ecology research
- Urban vegetation research
- Marine ecology research
- National Ecological Observatory Network (NEON) Database- SFS Emerge Program
- Conferences:
 - ASLO & SFS Joint Meeting 2020
 - SFS Meeting 2021
 - JASM 2022
 - ASLO Multicultural Program 2023
- REU Coordinator



Research Experience



- Reustle Estuarine Ecology Lab (REEL)
- NOAA LMRCSC Fellow
- Courses
- Outreach activities
 - Shored Up HOP
 - Shored Up Shellabration
 - HU Admitted Students Day



Hampton University

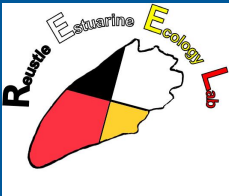
- Thesis Project: Assessment of top-down strengths in urbanized temperate oyster reefs
 - Long term study
 - Top-down strengths
 - Caging experiment
 - Consumption/Tethering

Basically, how important are the predators in a short, urbanized, and polluted system?



Current Projects

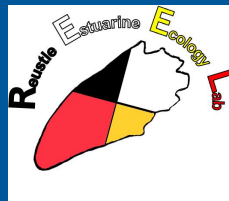
- Thesis field work!
- NOAA TAB Grant Proposal
- Collaboration with Shored Up
 - HOP
- NOAA LMRCSC NERTO



Coming Up!



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Thank you!