

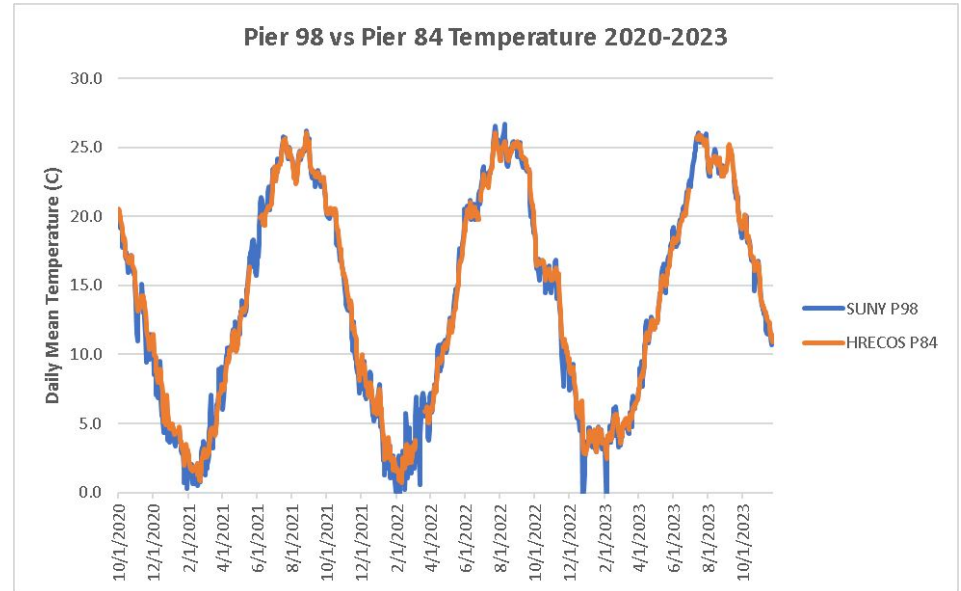
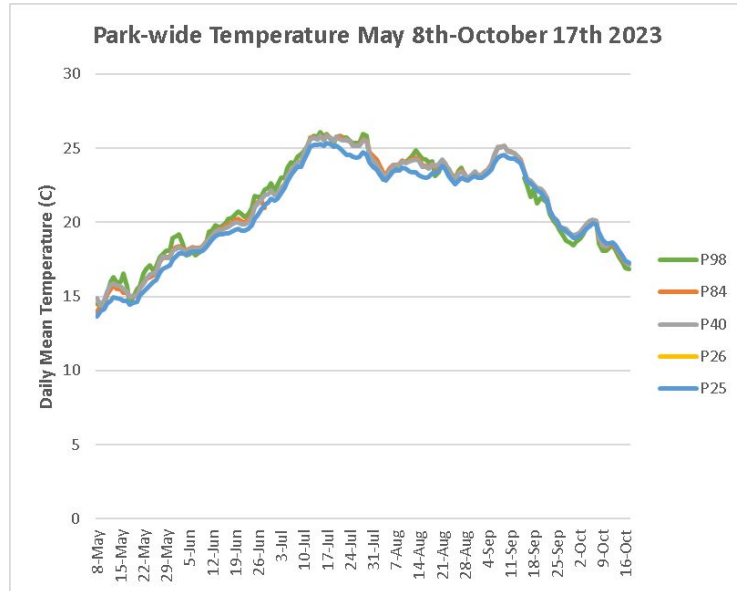
# SCIENCE 2023 RECAP

- **Fish Ecology Survey**
  - 2 sites!
  - 332 fishes of 16 species
- **Environmental DNA**
  - Norrie Point DEC, LDEO, CURB
  - 4 sites, 24 samples over 6 months
- **WasteShark & Plastic Pollution**
  - Welcome, Gulp!
  - ~5 pieces plastic per minute in trial deployment
- **Continuous Water Quality (HRECOS)**
  - ~60,000 data points of 7 parameters at two locations (15 mins intervals)
  - Pendant loggers at trap sites



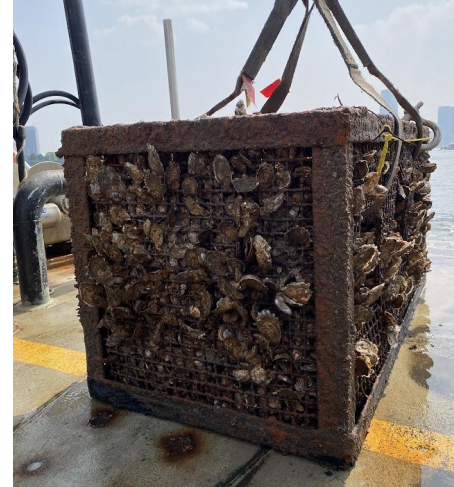
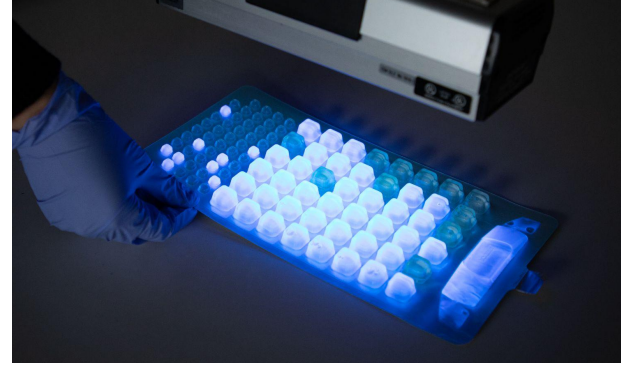
# SCIENCE 2023 RECAP

- **Park Temperature Comparisons**
  - Comparing Pier 84 & 25 HRECOS stations to SUNY Pier 98 (right)
  - Comparing to pendant loggers at fish survey sites, Piers 40 & 26 (left)



# SCIENCE 2023 RECAP

- **Pathogens**
  - 11 sites, 220 samples over 20 weeks
- **Tide Deck Epibiont Settlement**
  - 9 plates, 63 images over 7 months
- **Oysters & Habitat Enhancement**
  - 350+ enhancement structures set with combined ~35 million spat; 110 volunteers



# 2023 SCIENCE PARTNERSHIPS

## eDNA Metabarcoding



**Dr. Sam Chin, Monmouth University**

## Toadfish Acoustics & Neurochemistry



**Tom Quigley, Brooklyn College**

## Sessile Organisms Influence on Oyster Recruitment



**Dr. Allison Fitzgerald & Polgar  
Fellow Rashed Caraballo,  
New Jersey City University**

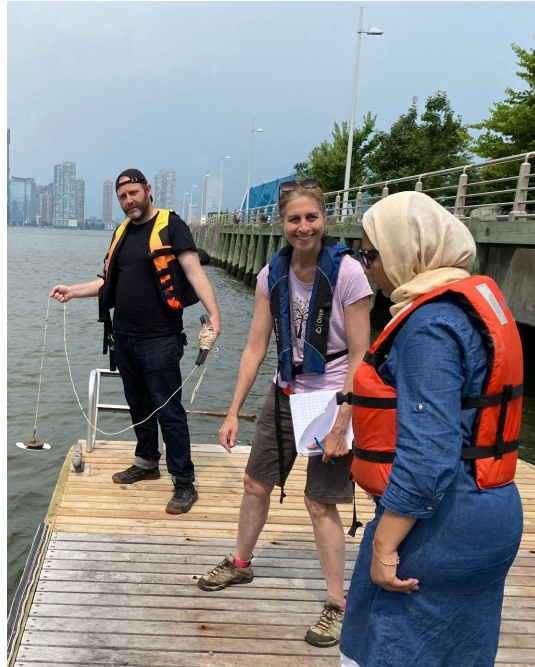
# 2023 SCIENCE PARTNERSHIPS

## Oyster Larval Recruitment



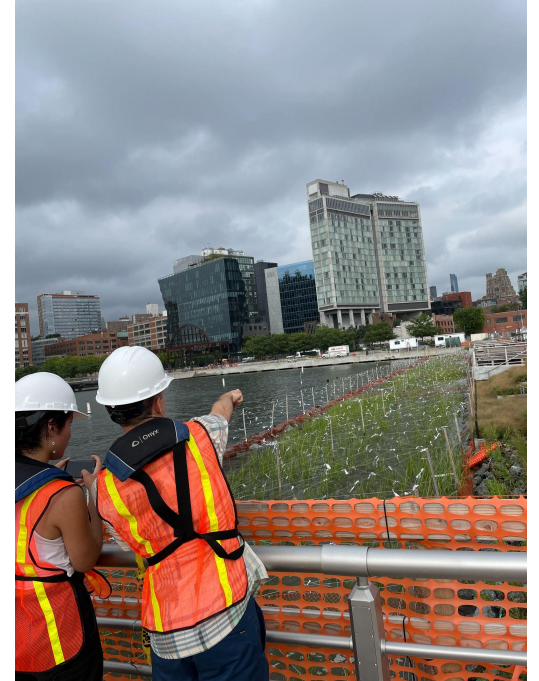
**Dr. Matt Hare & Polger Fellow  
Henry Hua, Cornell University**

## CSO Impacts on the River's Microbial Life



**Dr. Dianne Greenfield,  
Advanced Science Research  
Center at The Graduate Center**

## Carbon & Nitrogen Cycling at Gansevoort's Constructed Wetland



**Dr. Chester Zarnoch, Baruch  
College**

# 2023 SCIENCE PARTNERSHIPS

## Videographic Nekton Surveys at Gansevoort



**Dr. Chen Yong & Abigail Costigan,  
Stony Brook University**

## Nekton Assemblages in the Tribeca Habitat Enhancement Area



**Dr. Thomas “Motz” Grothues,  
Rutgers University**

## New Methods in CSO Remediation



**Dr. Abel Navarro & Polger  
Fellow Brandon Campo,  
BMCC**

# 2023 SCIENCE PARTNERSHIPS

- Baruch College
- Borough of Manhattan Community College
- Brooklyn College
- City College of New York
- Cornell University
- CUNY Graduate Center
- Hunter College
- Monmouth University
- New Jersey City University
- New York University
- Queens College
- Rutgers University
- SUNY Stony Brook University
- University of Oxford



Spat counting w/ Cornell University