



# UNOLS RVTEC MEETING

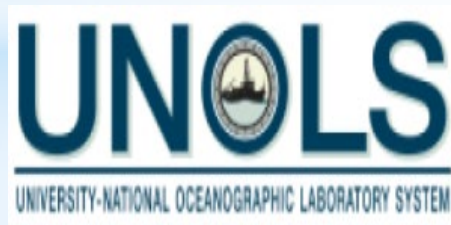
Next Up

Marine Advanced Technology Education – Maria Osiadacz  
(remote presenter)

# UNOLS-MATE At-Sea Technical Internship Program

Funded by the National Science Foundation  
current OCE AWARD 1757373

**Maria Osiadacz**  
**Internship Coordinator**

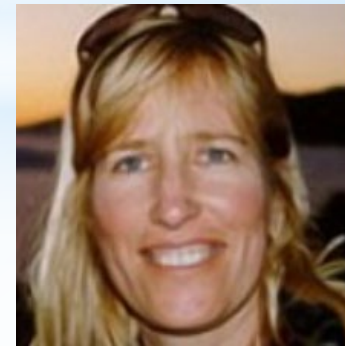


**Marine Advanced Technology Education (MATE) Center**  
**University-National Oceanographic Laboratory System**

# Program Overview & Updates

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- **MATE Internship Program started with a NSF/UNOLS grant in 1999**
- **Help meet demand for multi-skilled marine technicians**
- **Provide opportunities for mentoring/training by marine technicians working on science missions aboard research vessels**
- **Program transferring to UNOLS office (pending funding approval) in 2023**
- **Thank you & congratulations to Deidre Sullivan on her retirement!!**



# MATE Interns 1999 to 2022

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- **Demographic data of former interns**
- **Data collected for 328 interns at-sea and land-based**

	<b>Total responses*</b>	<b>Percent</b>
Community College Students	171 out of 328 responses	<b>52.1%</b>
Female students	159 out of 328 responses	<b>48.5%</b>
Students from underrepresented groups	80 out of 301 responses	<b>26.6%</b>
Financially disadvantaged students **	119 out of 171 responses	<b>69.6%</b>

\* Based on completed surveys; omitted if declined to respond

\*\* Financial status collected since 2008

- **Starting with 2023 program: recruit  $\geq 30\%$  from underrepresented groups**

# MATE Interns 1999 to 2022

- **Updating employment status of former interns**
- **More active tracking since 2008**
  - Email, surveys, LinkedIn, networking

	<b>Total Responses: 87</b>	<b>Percent</b>
Marine Technician or closely related job *	48 responses	<b>55.1%</b>
UNOLS Fleet **	31 responses	<b>35.6%</b>
STEM related position	85 responses	<b>97.7%</b>

\* Working on marine vessel or institution supporting oceanographic research  
\*\* Including tech pool or other temporary work, visiting student, or prior job

- **Results similar to 2017 survey with 91 respondents**
  - over 90% were employed in a STEM-related field
  - over 50% held positions in marine technology or closely-related ship-based job

# Miguel Sanchez

Hosted by the University of Alaska Fairbanks on the R/V *Sikuliaq* (8 weeks)

Mentor: Ethan Roth, Science Operations Manager

Naval Architecture and Marine Engineering, Webb Institute



# Tyler Peterson

Hosted by WHOI on the R/V Armstrong (6 weeks)

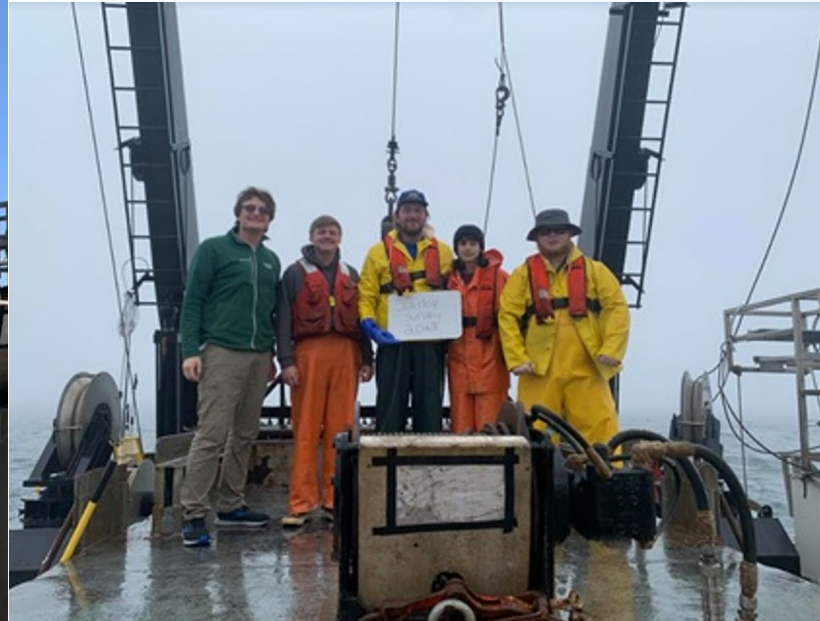
Mentors: Marine Technicians Emily Cheung and Croy Carlin

UNOLS Tech Pool, USCGC Healy as Marine Technician, joining OSU



# Jackson Hollocker

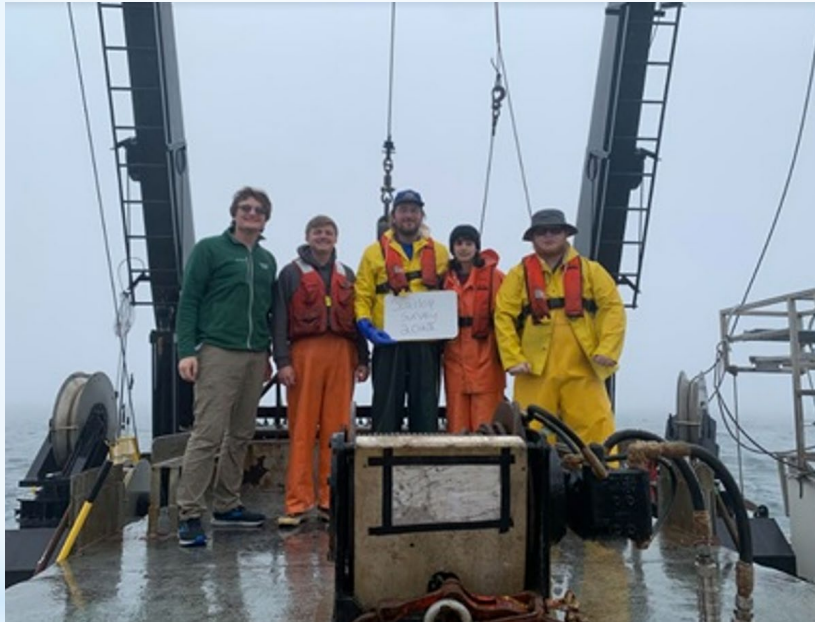
Hosted by the University of Delaware (5 weeks)  
Mentors: Christian Kernisan and other crew on R/V Hugh Sharp  
Marine Technology at Northwestern Michigan College





# Daniel Brunet

Hosted by the University of Delaware (5 weeks)  
Mentors: Christian Kernisan and other crew on R/V Hugh Sharp  
Marine Biology at University of Alaska Southeast



# Sarah Sergent

Hosted by NDSF Lab, WHOI (6 weeks)

Mentors: Matt Heintz and the Jason Team on R/V Thompson  
Marine Technology at Northwestern Michigan College



# Syenna Graham

Hosted by NDSF Lab, WHOI on R/V Thompson (9 weeks)  
Mentors: Sean Kelley and the Sentry Team with Judy Fenwick  
Aerospace and Ocean Engineering, Virginia Polytechnic State University



# Kyle Hebert

**Hosted by RSMAS, UMiami, R/V Walton Smith (15 weeks)**  
**Mentors: Don Cucchiara, Denis Ilias, Jonathan Raymond and other crew**  
**hired by WHOI, Communications Electronics Technician, R/V Atlantis**



# Alesha Gregoire

**Hosted by RSMAS, UMiami, R/V Walton Smith (16 weeks)**  
**Mentors: Don Cucchiara, Denis Ilias, Jonathan Raymond and other crew**  
**hired by RSMAS, Ship's Mate, R/V Walton Smith**



# Anastasia Elmendorf

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**Hosted by WHOI on the R/V Armstrong (8 weeks)**  
**Mentors: Emily Cheung and other Marine Technicians**  
**Currently on board, transit from Greenland to Woods Hole**



# What the community gains

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## Hosts/Mentors:

- **Extra help on board, enthusiastic, eager to learn**
- **Direct involvement training next generation of marine technicians**
- **Preview of best graduates from marine technology programs for hiring!**
- **UNOLS Fleet uses Internship Program to recruit new talent**

## Interns:

- **Job experience essential for employment, often the most important step; with best role models**
- **Better understand the diversity of ocean careers**
- **Hands-on experience with cutting-edge technologies not available at educational institutions**

# Intern selection process

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- **Consider hosting interns in 2023**
- **Complete online host form**
- **Candidates carefully matched to host's requirements**
  - **Summer internships - host receives application responses of 3-5 applicants that best match mission needs**
  - **Long-term internship – MATE/UNOLS review applicants, determine top finalists and provide host for selection**
  - **Host encouraged to interview candidates**
  - **Host makes final selection**
  - **MATE checks references, makes offer, handles travel logistics**
- **After – please complete post-internship host surveys**
- **Continue to use internship to promote marine technical careers**
- **You are great mentors and role models - THANK YOU!**



# Thank you! Any Questions?

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For more information visit:  
[www.marinetech.org/internships](http://www.marinetech.org/internships)

Online host survey available  
[2023 MATE Internship Program Host Survey](#)

Contact:  
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MATE Internship Coordinator  
[mosiadacz@mpc.edu](mailto:mosiadacz@mpc.edu)

