

University-National Oceanographic Laboratory System ~UNOLS ~ DeSSC New User Participants

Part II Yang Liao to Kristin Yoshimura















yliao@whoi.edu

Department of G&G, Woods Hole Oceanographic Institution

Research Tools

Fluid dynamics / Material Sciences / Newton's 2nd law / Stability analysis

Research Interests

- Physical Volcanology chamber & conduit dynamics
- Hydrothermal circulations on & beyond earth
- Geophysical fluid dynamics & simple experiments
- Turbulent flows,

Looking for -

- Collaborators and ideas
- Observation and data that could benefit from and/or test analytical models

Emma McCully -MS Student at Boise State University-

I am working with Dr. Dorsey Wanless, looking at along and across-axis chemical variability at the MAR ~14°N

I hope to continue utilizing deep submergence facilities in future research





Nwankwo, Uchenna Chizaram

- Presently a PhD student at USM
 - My current research is offshore GNSS-MR
- Research experiences
 - Land surveying
 - Hydrography
 - Physical Oceanography
- Future research interest
 - Operation of remotely operated vehicles and autonomous underwater vehicle

Gustavo A. Ramírez

Affiliation: Postdoc at the University of Rhode Island, Graduate School of Oceanography.

Research:

- 1. Life in Subseafloor Habitats: Sediment and Crust.
- 2. Molecular Ecology: 'Omics
- 3. Long-term Microbiological and Chemical Monitoring
- 4. Extracellular DNA in Marine and Terrestrial Habitats

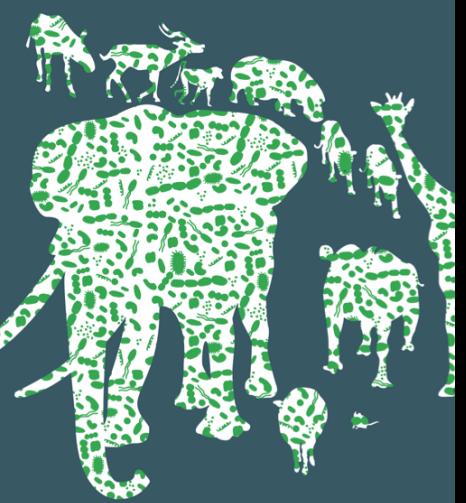
Next: Looking for a job.

Thanks!

Aspen T. Reese Junior Fellow, Harvard areese@fas.harvard.edu

Research interests

- Ecology of the gut microbiota
- Role of the microbiota in host acclimation and adaptation



Current projects

- Dynamics of microbiota in diel migrating invertebrates
- Microbiota responses to climate change
- Impacts of domestication on the microbiota





Jennifer Salerno, Ph.D.

- Assistant Professor, Department of Environmental Science and Policy, George Mason University
- Environmental microbiologist (deep sea inverts, shallow and deep corals, biofilms, soil, sediment, oysters, built environment, maybe bees)
- Looking for graduate students!!!
- E-mail: jsalerno@gmu.edu

Cherise Spotkaeff



Masters Student at Hawaii Pacific

University

Advisor: Dr. Olivia Nigro

Email: cspotkae@my.hpu.edu

Research Interests: Marine Microbiology Current Research: Deep subsurface Viruses

James Townsend PhD, June '18

Current: Biophysicist, ctenophorologist, baby taxonomist *Future:* Molecular phylogenetics, gut microflora, microplastics

I'm interested in,

- Postdoc opportunities and collaborations on the above, etc.
- Increasing access to research facilities and opportunities for 1st gen/minority students
- Promoting the social relevance of marine exploration and biodiversity

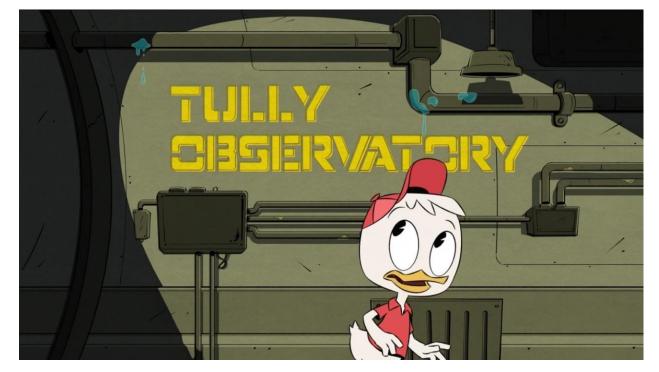
"Science is a force for social justice."

Benjamin Tully

Postdoc at the Center for Dark Energy Biosphere Investigations

Currently looking for: Faculty position

Interests:



- Microbial ecology and genomics in marine environments spanning from the surface ocean to subseafloor crustal environments
 - Future endeavors to examine microbial ecology of particle attached organisms through the deep water column and sediments
- Application of large-scale "omic" techniques metagenomics and metatranscriptomics
- Experience:
- Oligotrophic sediments South Pacific Gyre & subseafloor crustal environments North Pond

Alexis M. Weinnig

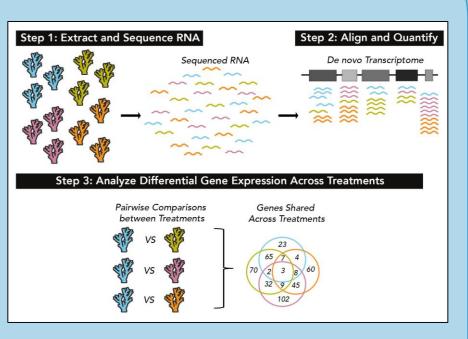
PhD Candidate, Temple University

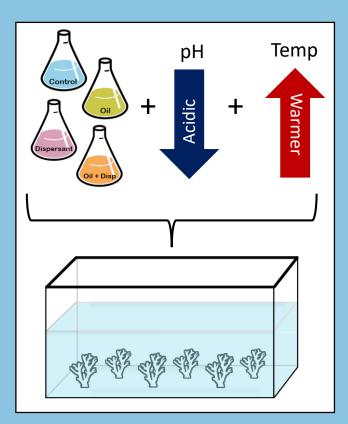
aweinnig@temple.edu

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Live Cold-Water Coral Experiments

Molecular Analysis





Shipboard Operations and Collections



Postdoc Summer/Fall 2020

Cold-water coral microbiome

Influence of surrounding environment/conditions on coral persistence

Subbarao Yelisetti, Assistant Professor

<u>What I work on</u>

- Marine gas hydrates
- Submarine landslides
- Seismic crustal structure of the continental margins earthquakes, oil and gas

What tools I use

- Seismic reflection and refraction

 Travel time and full waveform
 inversion
- Bathymetry, magnetics, gravity
- Physical properties of sediments

- Interested in plate tectonics and geophysical structure
- Looking for collaborators



Kristin M. Yoshimura

kristiny@udel.edu @kmyoshimura

Education: PhD candidate @ UD with Dr. Jennifer Biddle **Expertise:** Microbial ecology and metagenomics **Dissertation focus:** Particle-associated microbes from estuaries to deep sea and development of sediment communities

Interested in: Genomics and activity of microbes in deep sea and sediment environments & implications on geochemical cycling

Experience: DSV Alvin, ROV Jason

Graduating: Feb 2019- *looking for post doc!*