



Fred (center) and Judith (right) Mackenzie on a hike in Torres del Paine National Park, Peru, with their friend, Joe.

About the Program

The Department of Oceanography launched the undergraduate Global Environmental Science program in 1998 with the generous support of the Pauley Foundation. The vision and brainchild of Oceanography Emeritus Professor Dr. Fred Mackenzie, the GES program is known for its rigorous math and science foundation, integrated study of environmental- and sustainability-related issues, and faculty-mentored research thesis requirement. This research experience results in every GES graduate having completed a faculty-mentored research project, written a thesis, and presented their research results in a public forum. As a result of the challenging curriculum and research thesis requirements, GES graduates are well-prepared to enter the workforce in environmental science-related fields and industries or continue on to graduate studies in many different subjects in the sciences, social sciences, law, medicine, and engineering.

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The University of Hawai'i at Mānoa Department of Oceanography presents SPRING 2020



GLOBAL ENVIRONMENTAL SCIENCE

Friday, May 8, 2020
2:30pm - 3:00pm HST



Alyssa Renteria (right) and her fellow Mentorship for Environmental Scholars intern Ki'Ana Speights meeting the President of the Navajo Nation at the Department of Natural Resources Summit in summer 2019. (Photo taken by Angelita Denny)

GES Symposium

Global Environmental Science (GES) students presenting at this symposium conducted basic research, analyzed their results, and compiled their findings into a thesis format. Many theses are converted into peer-reviewed journal publications; a feat usually accomplished by students once in graduate school. The GES Symposium is a celebration and culmination of undergraduate research efforts and experiences, so join us in supporting, engaging, and applauding today's presenters.

Agenda

2:30 Welcome

2:35 Cherryle Heu

Comparing REU Student vs. Advisor Ratings of Student Performance Suggests Low Student Self-Efficacy Particularly Among Underrepresented Students

Mentor: Barbara Bruno (Hawai'i Institute of Geophysics and Planetology)

2:50 Marisol Plazas

Mineral Composition Found in Blue Mud Samples Taken from the Mariana Forearc Aboard IODP Expedition 366

Mentor: Patricia Fryer (Hawai'i Institute of Geophysics and Planetology)

Biographies



Cherryle Heu

Mentor: Barbara Bruno

Cherryle had always taken an interest in nature from a young age. After taking a course in environmental science in high school, she was captivated by the field and was set to major in GES. During her second semester of college, she met Dr. Barb Bruno and Dr. Jenny Engels, who introduced her to a thesis project related to STEM education research – something

Cherryle had a great interest in. There, she had the opportunity to learn about research, gain insight on her interests and skills, and grow as a scientist. Cherryle also took advantage of UH Mānoa's international exchange program to study abroad in Kyoto, Japan for an academic school year. Funded by the Undergraduate Research Opportunities Program, she also collaborated with the Office of Sustainability to research the carbon and nitrogen footprint of UH Mānoa. Cherryle was born and raised in Honolulu, HI.



Marisol Plazas

Mentor: Patricia Fryer

Marisol was intrigued by the possibilities that possessing a degree in GES can provide. With her degree in hand, she plans to help create new jobs that are needed to tackle climate change issues, and hopes to start a conservation business. Marisol has always been fascinated by the deep sea and chose to expand her knowledge by pursuing her research topic. Her proudest achievement to

date is knowing that her research will become a published report for IODP Expedition 366. Marisol was born in Fremont, CA, and raised in Katy, Texas.