



UNIVERSITY  
of HAWAII™  
HILO



# Pacific Internship Programs for Exploring Science 2018 Student Symposium

August 2 - 3

Hale'ōlelo, University of Hawai'i at Hilo

## DAY 1

8:30 Welcome/Introduction

### *Conservation Strategies for Endangered Endemic Species*

9:00 **Kira Rowan**

*Hand pollination and cloning of Bonamia menziesii*

9:15 **Qindasi Silva**

*Nalo Meli 'āpa'akuma Project: Investigating non-lethal genomic sampling methods of Hylaeus bees for conservation genetics*

9:30 **Corbin Banua**

*Outplanting missing ex situ collections of Hibiscus waimeae in Limahuli Garden and Preserve in order to promote genetic diversity for seedlings to grow in the 21st century*

9:45 **Miles Thomas**

*Impact of bryophytes on the germination of native Hawaiian Plants at Hakalau National Wildlife Refuge, Hilo Hawai'i*

10:00 **BREAK**

### *Approaches to Understanding Our Coastal Ecosystems*

10:15 **Kahiau Miranda**

*REMS: An immersive place-based marine science program for Hawai'i high school students and recent graduates*

10:30 **Kiani Halushka**

*Human use surveys and symbolic fence post installation on the offshore islands of O'ahu*

10:45 **Christian Francis-Flores**

*Researching and creating a protocol for traditional mākāhā construction*

11:00 **Paige Hamada**

*Increasing dissolved oxygen levels in pua pond to enhance population of pua 'ama (Mugil Cephalus)*

11:15 **Sheldon Rosa**

*Effects of water characteristics on fish diversity within loko i'a*

11:30 **LUNCH**

### *'Alalā: The collaborative Effort to Restore Hawai'i's Last Native Corvid*

12:30 **Heather Lee**

*Vigilance of released 'alalā (Corvus hawaiiensis) at feeding stations in Pu'u Maka'ala Natural Area Reserve, Hawai'i*

12:45 **Amy Durham**

*Habitat composition surveying in Pu'u Maka'ala Natural Area Reserve for release of the endangered Hawaiian 'alalā (Corvus hawaiiensis)*

1:00 **Jesse Leavitt**

*Genomic diversity of the critically endangered 'alalā (Corvus hawaiiensis): Management of captive breeding population*

1:15 **BREAK**

*\*Day 1 schedule continued on next page*





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### *Conservation & Technology: Visualizing Resources in Our Changing World*

**1:30 Jamie Colvin**

*Understanding the relationship between 'Ōhi'a lehua tree size and the susceptibility of a tree being infected by the invasive fungus Ceratocystis, on Hawai'i Island*

**1:45 Tazman Shim**

*National Park Service alien species management*

**2:00 Kawainohiaakalani Navares**

*The effect of topography on lava movement*

**2:15 Talace Pai**

*Miloli'i marine monitoring*

**2:30 BREAK**

### *Coral Reef Management Across the Pacific*

**2:45 Hannah White**

*Development of programming and outreach materials for community education on coral reef ecosystems found in War in the Pacific National Historical Park*

**3:00 Elizabeth Claudia Thompson**

*Strengthening coral reef conservation through education and outreach*

**3:15 Theresa Aten**

*The effectiveness of regulation enforcement and management of the Ngarchelong Marine Managed Area*

**3:30 Kiara Ringang**

*Non-bleached vs. bleached jellyfish in Jellyfish Lake, Palau*

**3:45 End of Day 1**





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## DAY 2

8:00 Welcome

8:05 **Guest Intern Presentation**  
**Jason Henson & Charlie Tommy**

### *Mauna Kea: Understanding Land Use and Environmental Change*

8:25 **Timothy Medina**  
*Mapping erosion and generating baseline data of Mauna Kea*

8:40 **Uli'i Miyajima**  
*Characterization of freezing conditions on Maunakea*

8:55 **Sebastian Wells**  
*Native habitat rehabilitation and wildlife monitoring on Maunakea*

9:10 **William Dela Cruz**  
*Surveys at Kanakaleonui and Waipahoehoe*

9:25 **Jasmin Curiel**  
*Using camera traps to evaluate frugivory within Hawaiian forests located on Hawai'i Island*

9:40 **BREAK**

### *Understanding the Impacts of Soil and Water Quality*

9:45 **Angelica Melone**  
*Measurement of soil properties under various vegetation covers in Mākaha Valley, West O'ahu*

10:00 **Darrian Muraoka**  
*Post Kaua'i's recent historical flooding: Data collection of limu abundance, fish populations, and sedimentation*

10:15 **Ann Albert**  
*Water quality and currents: How ground water and sewage influence the coral reefs at Puakō, Hawai'i Island*

10:30 **Leilani Sablan**  
*Assessing sewage pollution using fecal indicators at Puakō and adjacent resorts*

10:45 **BREAK**

### *Adapting Conservation Strategies Across Ecosystems*

11:00 **David Russell**  
*Updating and refining site maps for Ka'ūpūlehu Dryland Forest Preserve*

11:15 **Sasha Kahanu Giron**  
*Post-planting protocols to improve growth of native plantings at Pālehua*

11:30 **Katherine Hiu & Travis Toriki**  
*Science, culture and restoration at Kāko'o 'Ōiwi, O'ahu*

11:50 **Samantha Shizuru**  
*The O'ahu Army Natural Resources Program Makua and O'ahu Implementation Plans for Rare Native Plants*

12:05 **LUNCH**

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### *Engaging the Communities as Partners in Conservation*

**1:15 Stephanie Pasco**

*Understanding the realities and engagement potential of key audiences for Rapid 'Ōhi'a Death*

**1:30 Marissa Kwon**

*Developing a low-cost sensor system to remotely monitor environmental changes and growth of rare native plants*

**1:45 Justin Higa**

*Developing a community outreach protocol for Kawainui Marsh*

**2:00 Marche' Kamalei Matsumura**

*Lōkahi: Conservation and education for future generations*

**2:15 Teuila Sinclair**

*Reducing plastic waste in the streams of Fagaalu, American Samoa by 50% by 2020*

**2:30 BREAK**

### *Wildlife Conservation in Island Ecosystems*

**2:45 Veronica Coston**

*Site preparation for kiwikiu reintroduction*

**3:00 Tavai Ieremia**

*Linking GPS/accelerometer data to fruit bat (*Pteropus* spp.) behavior*

**3:15 Yubee Isaac**

*Hawaiian monk seal (*Monachus schauinslandi*) monitoring in Kalaupapa, Molokai*

**3:30 BREAK**

**3:45 Ho'omohala Project**

**4:00 End of Student Symposium**