

AKAMA I WORKFORCE INITIATIVE

Hilo Symposium Program

Tuesday August 3, 2021 — 9:00am–12:00pm

Zoom Meeting ID: **873 9223 0679**

Passcode: **681585**

Quick link to Zoom meeting: <https://us02web.zoom.us/j/87392230679?pwd=N3ZXbS9FVWVJS3lnWIRaczA2Z2Ezd09>

Please see our Symposium booklet online:

tinyurl.com/akamai-symposium

Intern Host Organizations

- Academia Sinica Institute of Astronomy & Astrophysics (ASIAA)
- Air Force Research Laboratory (AFRL)
- The Boeing Company
- Daniel K. Inouye Solar Telescope (DKIST)
- KBR
- Maui High Performance Computing Ctr. (MHPCC)
- Smithsonian Astrophysical Observatory (SAO)
- Subaru Telescope
- Univ. of California Observatories (UCO)
- Univ. of Hawaii Institute for Astronomy (UH IfA)

Welcome & Opening Comments

Lisa Hunter, *Director, Akamai Workforce Initiative*

Intern Project Presentations — Concurrent Sessions

Session 1

Russ Masuda

KBR — *Unified Software Control of an Image Sensing System*

Dason Albano

UH IfA — *Developing Software Interfaces for the Robo-AO-2 Adaptive Optics System*

Hannah Blue

ASIAA — *Time Series Analysis of Active Galactic Nuclei*

Ryan Michaud

UH IfA — *Characterizing a Low-Cost Commercial Camera for Use with an AO Wavefront Sensor*

Chase Lee

KBR — *Simulating Drone Flight, Camera Aperture & Environment for Machine Learning Using Unity*

~ **BREAK** ~

Dane Payba

KBR — *Visualizing Natural Language Processing Results on Performance Work Statements*

Jacob Simons

SAO — *Development of a Visualization Front-End for an Updated Database*

Zayden Hora

UH IfA — *Modeling the UH 2.2-m Observatory with Photogrammetry Techniques*

Kyra Ikeda

Subaru — *Enhancing the Ginga Toolkit for Astronomical Image Viewers to Operate on the Web*

Intern Project Presentations — Concurrent Sessions

Session 2

Ka'ulu Ng

UCO — *SCALES Diffraction Grating Design for Efficient Exoplanet Spectroscopy*

Kyle Lingat

MHPCC — *Improving the Online Documentation Interface for the PEcoC Cybersecurity System*

Aidan Griffin

Boeing — *Using Machine Learning to Achieve Semantic Segmentation of Video*

Nikolas Conmy

UCO — *Deformation and Modal Analysis of the SCALES Optical Bench*

Lynzee Hoegger

DKIST — *Modeling Atmospheric Transmission for DKIST*

~ BREAK ~

George Villanueva

AFRL — *Creating an As-Built Mechanical Model for HiVIS to Identify Upgrade Locations*

Terric Abella

MHPCC — *Data Aggregation for PEcoC's Deep Learning Model:
Refining Network Traffic Data Workflow for PEcoC's Autoencoder*

Sebastian Rodriguez

DKIST — *An Interpolated Database of Atmospheric Transmission for
Assessing Thermal Strain on DKIST Optical Systems*

Brittany Ann Ramos

UCO — *Evaluating the Efficiency of Fiber-Optic Observations within FOBOS*

Closing Remarks & Thanks

Congratulations to our 2021 Interns!

The Akamai Workforce Initiative is a program of the Institute for Scientist & Engineer Educators at University of California, Santa Cruz.

***Advancing the next generation of
Hawaii's science, engineering and technology professionals***

