

Keck Observatory Congratulates Akamai Interns

All News Releases

August 11, 2023

KECK OBSERVATORY CONGRATULATES AKAMAI INTERNS

**Ka'ala Deitch, Matthew Fujioka, Angelu Ramos,
Xavier Tablit**

Waimea (Kamuela), Hawai'i – A heartfelt congratulations to the members of our 2023 [Akamai Workforce Initiative](#) Cohort - Ka'ala Deitch, Matthew Fujioka, Angelu Ramos, and Xavier Tablit - who have successfully completed their summer internship with us.



The [Akamai Internship Program](#) provides kama'āina college students the opportunity to gain hands-on work experience in STEM (science, technology, engineering, and mathematics). Thanks to this career pathways initiative, our staff has been privileged to serve as mentors to talented local students every summer for the past 20 years.

Sending a warm aloha to our latest cohort and best wishes in their career journeys! Read on to learn more about the projects Ka'ala, Matthew, Angelu, and Xavier worked on:



Angelu Ramos of Hawai'i Island worked on the framework for Keck Observatory's data reduction pipelines (DRPs), which organize massive amounts of raw data that telescopes collect so they're easier for astronomers to analyze. She designed a demo DRP utilizing an industry standard plotting interface that turns messy data into clean, user-friendly visuals. With the demo DRP, she was able to identify what a plotting interface needs to do to run within the Observatory's DRP framework, which will help the Keck Scientific Software Group continue improving it. Angelu is a

Kohala High School alum and recently graduated from the University of Hawai'i at Hilo with a B.S. in Astronomy and Minors in Physics and Math.



Ka'ala Deitch developed a new Azimuth Cable Wrap to Telescope Access Platform for the Keck II Telescope. It can safely hold the weight of two people and tools while protecting the cables in the tray under the platform. Born and raised on Hawai'i Island, Ka'ala is a Ke Kula 'O Nāwahīokalani'ōpu'u graduate who is pursuing a B.S. in Mechanical Engineering and a Minor in Hawaiian Language at the University of Hawai'i at Mānoa.



Matthew Fujioka of O'ahu worked on [Keck Observatory's Green Initiative](#), which sets a climate action goal of net-zero carbon emissions by 2035. He helped investigate ways to reduce electricity consumption and analyzed greenhouse gas impacts from Scope 2 emissions. Matthew graduated from Roosevelt High School and is a Mechanical Engineering major at the University of Hawai'i at Mānoa.



University of Hawai'i at Hilo Astronomy and Physics student Xavier Tablit studied eclipsing binary systems, which consist of two or more stars that are bound together by gravity and sometimes block each other's light. Using data from thousands of binaries discovered by the Zwicky Transient Facility, he analyzed how the stars' brightness changed over time, along with their colors, to estimate their masses as well as distances from Earth. This allows for the probing of the Milky Way galaxy's larger structures. Xavier is from Hawai'i Island and is a Pahoa High

School alum.

[Business Directory](#) [Events Calendar](#) [Hot Deals](#) [Member To Member Deals](#)
[Job Postings](#) [Contact Us](#)

Printed courtesy of www.kona-kohala.com/ – Contact the Kona-Kohala Chamber of Commerce for more information.

75-5737 Kuakini Hwy. Suite #208 , Kailua-Kona, HI 96740 – (808) 329-1758 – info@kona-kohala.com