

# Akamai Internship Program:

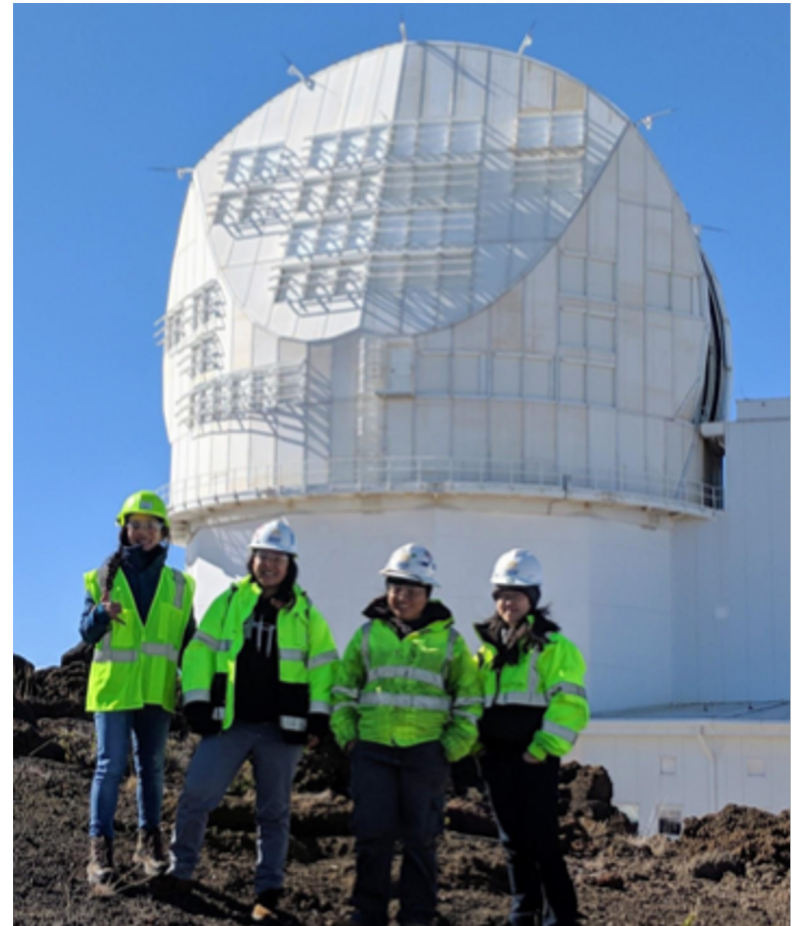
## *Advancing the Next Generation of Hawaii's STEM Professionals*

Akamai is a program for Hawaii college students, placing them with summer projects at telescopes and tech industry in Hawaii.

The goals are to keep students in STEM, and increase participation of groups currently underrepresented\* in STEM.

The following slides report recent outcomes.

\*African American/Black, Hispanic/Latinx, Native American/Alaska Native, Native Hawaiian/Pacific Islander



Four Akamai alumna who are now engineers at the Daniel K. Inouye Solar Telescope on Maui

Akamai interns complete a project at a Hawaii telescope or tech company



## Organizations that have mentored Akamai interns include (# of interns):

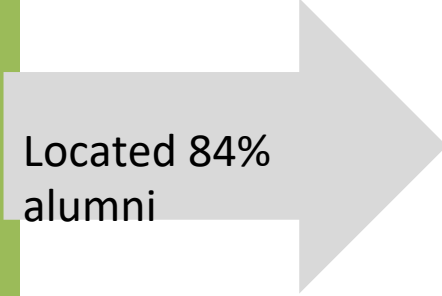
W. M. Keck Observatory (47)  
Institute for Astronomy, Maui (38)  
Gemini Observatory (38)  
Subaru Telescope (31)  
Akimeka (30)  
SMA/ASIAA (30)  
Trex (22)  
Institute for Astronomy, Hilo (25)  
Canada-France-Hawaii Telescope (22)  
AF Research Lab/MHPCC (21)  
Hnu Photonics (19)  
Thirty Meter Telescope (15)  
Oceanit (14)  
DKIST (14)  
Pacific Disaster Center (14)  
Centauri/PDS (11)  
Textron (11)  
UH Hilo (8)  
NELHA (8)  
PISCES (6)  
UC Observatories (4)  
Boeing (4)

# Outcomes measured by tracking STEM career progress of Akamai alumni

## 428 Akamai alumni (2003-19):

- 37% Women
- 23% Native Hawaiian
- 47% All underrepresented minorities

Located 84%  
alumni



*Key questions answered on next slides:*

- How many students stay in STEM?
- Are there gaps between demographic groups for those staying in STEM?
- How many are now in the Hawaii STEM workforce?

# 3 years after program: 88% of Akamai alumni stay in STEM

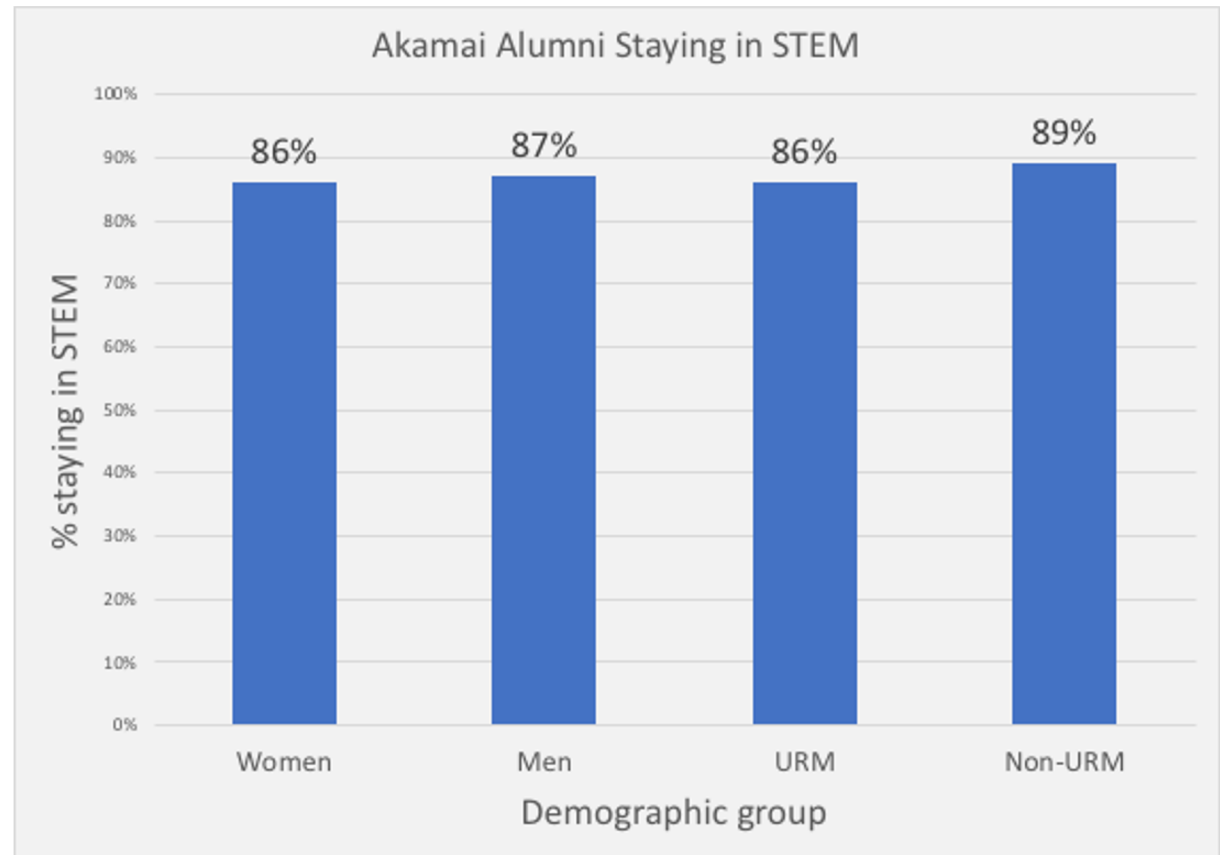
Nationally, about 40% of college freshmen who start as STEM majors complete a STEM degree

Subset: 2003-16 alumni (completed program 3+ years ago)	
<b>Alumni of this subset located</b>	<b>82%</b>
%’s below calculated from the 82% of participants located	
<b>A. In STEM Workforce</b>	<b>81%</b>
<b>B. Enrolled in STEM as undergrad or grad</b>	<b>7%</b>
<b>C. On STEM Pathway (A+B)</b>	<b>88%</b>



# All gender and ethnic groups stay in STEM at the same high rate of ~88%

Nationally, about 20% of URM students complete STEM degrees, compared to 40% for white and Asian



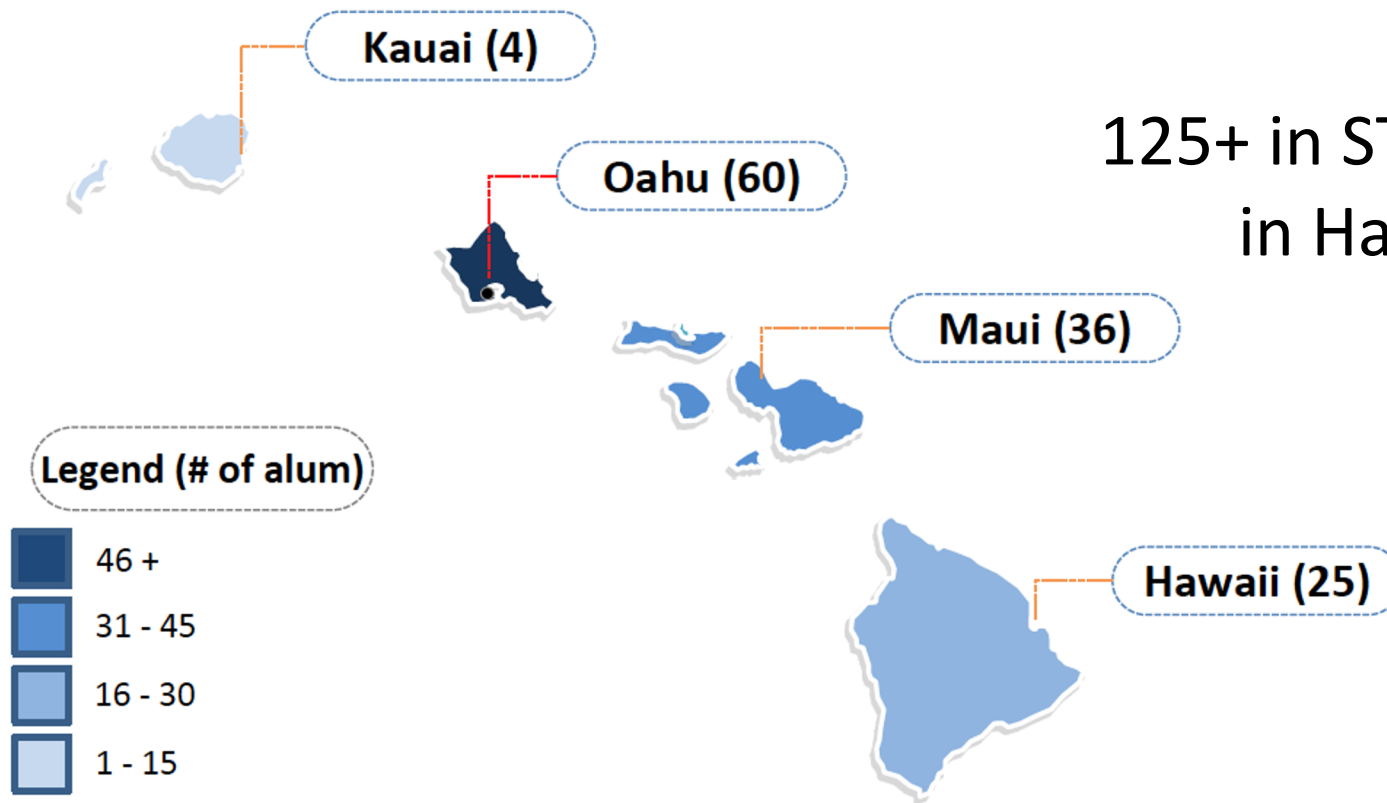
“Staying in STEM”= enrolled or working in STEM

URM=Native Hawaiians and other underrepresented minority groups

# At least 125 Akamai alumni (all cohorts: 2003-19) have STEM jobs in Hawaii

256+ in STEM jobs  
in Hawaii and beyond

125+ in STEM jobs  
in Hawaii



**Akamai is led by the  
Institute for Scientist & Engineer Educators  
at University of California, Santa Cruz  
in partnership with University of Hawaii,  
and Hawaii telescopes and tech  
organizations**

**Akamai funders  
(in order of funding level):**

National Science Foundation (NSF)  
U.S. Air Force  
Thirty Meter Telescope  
University of Hawaii  
Hawaii Community Foundation  
NSF Daniel K. Inouye Solar Telescope  
University of California Observatories  
W.M. Keck Observatory  
Maunakea Observatories  
Canada-France-Hawaii Telescope

In 2018 ISEE was given a Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM), the highest US award for mentoring.



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