UNIVERSITY OF HAWAI'I MANOA

The beautiful Mānoa Valley
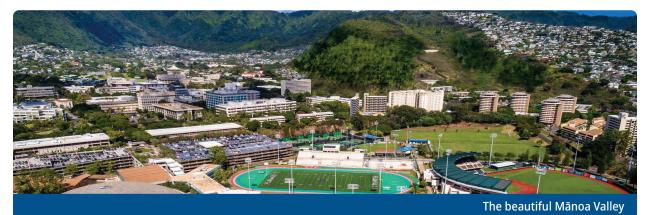
The cyber security research at the **University of Hawaii at Manoa (UHM)** covers many critical areas, including cryptography, cloud security, IoT security, information assurance, machine learning/AI security, mobile/wireless security, network security, privacy, smart grid security, software/hardware security, supported by AFOSR, AFRL, EPSRC, NASA, NSA, NSF, NRL, ONR, ODNI, and industrial partners. UHM faculty have published 400+ papers in prestigious peer-reviewed journals and conferences, mentored security-focused graduate students, served as journal editors and reviewers, led research conferences, and given keynotes/invited talks at research conferences. These research successes made UHM designated as a CAE-R in May 2015.

UHM CAE-R provided many opportunities for broad Hawaiian communities. We have then established the NSF CyberCorps SFS program in 2016. We have enhanced computer science BA/BS degrees with Security Science Concentration and a management MS degree with Information Security. We have collaborated with local government, education institutions, and industry communities and founded CyberHawaii in 2016, which broadens our outreach with high schools, community colleges, Hawaii DOD, Hawaii DOE, etc. We have hosted 20+ NSF/NSA GenCyber Camps across 4 islands with 800+ campers since 2015.

We have improved our curriculums with new security courses, including digital forensics, special topics in security (AI, IoT, CPS, drone, ML, penetration testing, reverse engineering, SACDA, wireless security, etc.). We have worked with the UHM Airforce/Army/Naval ROTC programs and built the Cyber Spectrum Collaborative Research Environment program at UHM.

DESIGNATIONS

• CAE-Research

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GenCyber Camp