
Saumalu Mataafa

EXPERIENCE

- Commissioner** Kaho'olawe Island Reserve Commission(KIRC) *July 2019-present*
Serves on the KIRC and manages the restorative operations for Kaho'olawe's Island reserve
- Executive Assistant** Maui County Department of Management *March 2019 – present*
Manages county systems, policies, grants, and initiatives
- Policy and Legislative Liaison** Maui County Office of the Mayor *January 2019 – March 2019*
Lead legislative team for the Office of the Mayor • Facilitated discussions and problem solving strategies for affordable housing, water supply, and transportation
- Legislative Analyst** Maui County Office of Council Services, Wailuku, HI *August 2017 – January 2019*
Researched and drafted county legislation relating to housing, land use, transportation • Managed several Maui County Council committees and contracts
- Legislative Research Analyst** Hawai'i State Capitol, Honolulu, HI *December 2016 - May 2017*
Researched and drafted legislation and solutions related to drug decriminalization, zoning, economic development, food security, and prison overcrowding
- Research Associate** NASA Ames Research Center, Moffett Field, CA *May 2015 - August 2015*
Researched human interactions with technology in remote environments • Conducted remote sensitivity training experiments
- Program Coordinator** NASA Ames Research Center, Moffett Field, CA *May 2015 - August 2015*
Managed the Space Life Sciences Training Program development curriculum • Organized space biosciences enrichment and career training program for twenty NASA interns
- Human Factors Specialist** Embry-Riddle Aeronautical University, Daytona Beach, FL *August 2014 - May 2015*
Managed university's contract with the Federal Aviation Administration on air traffic controller study • Conducted experiments related to aviators' interaction with user interfaces • Managed university's Aerospace Physiology laboratory and outreach
- Research Associate** NASA Ames Research Center, Moffett Field, CA *May 2014 - August 2015*
Developed prototypes for NASA's Space Biosciences Division's funded research on the effects of space on biology
- Research Assistant** Embry-Riddle Aeronautical University, Daytona, Beach, FL *January 2013 - May 2015*
Researched and developed virtual training programs for military combat pilots • Conducted experiments and demonstrations on the effectiveness of proposed training program

PROJECTS

~County of Maui~

High Performance Leadership Academy

Leadership program which provides tools for leadership, organizational development, change management, negotiation and collaboration, effective communication, and high performance management.

Maui Affordable Housing Initiative

Member of working group consisting of housing stakeholders, which is sponsored by Hawaii Community Foundation and coordinated with Strategies360, to work on housing solutions specific to Maui.

Attainable Housing for Maui Nui Task Force (AHMN)

Facilitates and creates discussion among county departments to increase affordable housing inventory • Develop long term and short term affordable housing goals to meet the housing demand for county residents • Coordinates housing forums with private and non-profit entities

Affordable Housing Fund Scoring Committee

Prioritizes and scores affordable housing project proposals for County funding

Ka Ipu Kukui Fellowship

Community-based leadership training program • Reviewed and interacted with community and business leaders to determine challenges facing Maui Nui • Participated in the Focus Maui Nui process and planning processes

Affordable Housing Policy Analysis and Implementation Plan

Developed the scope and request for proposals (RFP) for an affordable housing policy analysis and implementation plan • Managed contract agreements with vendor • Reviewed project milestones, data collection methods and implementation plan and policy reports • Developed result-driven legislation for the County

Maui Metropolitan Planning Organization's Long-Range Transportation Plan 2040 Think Tank

Reviewed facts and findings from Maui's long-range transportation plan • Facilitated discussion on transportation issues and recommended solutions for future planning • Reviewed data collection methods

Audit of the County's Department of Transportation

Managed contract agreements with auditor • Reviewed project milestones, data collection methods and transportation audit report • Developed result-driven legislation for the County

Hawaii State Association of Counties 2019 Annual Conference

Coordinated and planned for the 2019 annual conference events

Precinct Chairman

Managed precinct during the 2018 primary and general elections

~State of Hawaii~**Drug Decriminalization**

Researched and reported on international efforts to decriminalize certain drugs • Considered the consequences of implementing administrative penalties for certain drug usage

Drug Probation Programs

Met with stakeholders and collected data on the Hawaii State Judiciary's Hawaii's Opportunity Probation with Enforcement program • Reported on the program's operation and efficiency

State Prison Overcrowding

Met with stakeholders and collected data on state prison overcrowding • Reported facts and findings

~NASA Ames Research Center~**Habitat Development for Multigenerational Rodent Research on the International Space Station**

Conducted stakeholder needs analysis with biologists and hardware engineers to prototype a habitat to promote neonatal growth in space • Utilized decision matrices and quality function deployment (QFD)

Hindlimb Unloading (HU) Device Redesign

Redesigned the HU device to address principal investigator's need for more efficient, portable device for long duration space studies • Created decision matrices, and used commercial off-the-shelf technology to facilitate prototyping

Remote Sensing and Virtual Reality

Helped develop a user interface for long duration spaceflight and remote controlling robots • Conducted usability research on the maneuverability of using remote flight control with displays

~Embry-Riddle Aeronautical University~**EcoCar, Advanced Vehicle Technology Competition**

Conducted task analysis, stakeholder needs analysis & usability tests on electrical component for vehicle • Generated requirements for vehicle's electrical component

Shared Mental Models between Veterans and Traditional Students

Conducted research on relationships between students and veterans in classroom •

Utilized heuristics evaluation and card sorting exercises

Federal Aviation Administration Design Competition

Conducted research on Runway Incursions at Southeast airports • Conducted Stakeholder interviews • Implemented Systems Development Model and Packaged solution to combating Runway Incursions

Federal Aviation Administration Color Vision Project

Conducted research to promote enhanced color displays for NextGen Air Traffic controllers •

Utilized usability and user experience research to understand the difficulty in interpreting outdated displays

Climate Change in Hawaii

Co-authored an article on the effects of climate change in Hawaii in the Encyclopedia of Global Warming and Climate Change.

EDUCATION

Embry-Riddle Aeronautical University
M.S. Human Factors & Systems – GPA: 3.92
Daytona Beach, Florida
August 2013 – May 2015

Embry-Riddle Aeronautical University
B.S. AERONAUTICS –GPA: 3.86
Minors: Aviation Law, Aviation Safety
Human Factors, Meteorology
August 2009 – May 2013

Relevant Courses:Systems Engineering ▪ Systems Concepts Theory and Tools ▪ Simulating Humans in Complex Systems ▪ Human Factors in Systems ▪ Behavioral Neuroscience ▪ Systems Safety in Aviation ▪ Crew Station Design
Human Factors in Aviation Safety ▪ Aviation Law **RESEARCH SKILLS:** Stakeholder Needs Analysis ▪ Task Analysis ▪ Crew
Resource Management ▪ Usability Testing ▪ Systems Development Models ▪ Human Factors Analysis and Classification System (HFACS)

AWARDS & RECOGNITION

Ka Ipu Kukui Fellow • Space Life Sciences Training Outstanding Program Award • Ronald E. McNair Scholar
Federal Aviation Administration Design Competition – 3rd Place • Silver Wings National Outreach Award