

Curriculum Vitae

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EDUCATION:

- * Masters of Science in Tropical Conservation Biology & Environmental Science (2009 –2011)
 - University of Hawai`i at Hilo
 - Emphasis in Hawaiian botany, atmosphere /vegetation interactions specifically in tropical montane cloud forests, physical geography of Hawai`i, conservation biology, landscape ecology.
 - Masters Thesis: “The Anatomy of Light Precipitation Events and Their Influence on Canopy Water Balance at The Alakahi, Kohala, Hawai`i Island”
- *Bachelors of Science in Environmental Science (2004-2007)
 - University of Hawai`i at Hilo
 - Emphasis in Hawaiian botany, physical geography of Hawai`i, island biogeography, soil science, conservation biology, restoration ecology, landscape ecology, horticulture.

PUBLICATIONS:

- Hansen, E.** and J. Juvik. 2010 Performance of a Louvered Screen Fog Gauge as a Proxy for Canopy Throughfall in a Hawaiian Montane Cloud Forest. *Pacific Agriculture and Natural Resources* 2: 17-21.
- Juvik, J., Delay, J., Kinney, K. and **E. Hansen**. 2011. A 50th Anniversary reassessment of the seminal “Lāna`i fog-drip study” in Hawai`i. *Hydrological Processes* 25: 402-410.
- Juvik, J., Rodomsky, B., Price, J.P., **Hansen, E.** and C. Kueffe. 2011. The upper limits of vegetation on Mauna Loa, Hawai`i: a fiftieth-anniversary reassessment. *Ecology* 92 (2) 518-525.

EXPERIENCE:

Program Coordinator/ Farm Coach (Dec 2014 – Present)

Go Farm Hawai`i, Kaua`i Community College

Puhi, Kaua`i

Teach courses in sustainable agriculture for tropical regions. Topics taught include both the science and business aspects of agriculture. Responsible for grant money to purchase farm supplies for Go Farm program. Installed and maintain farm infrastructure including greenhouses, farm plot, orchard, equipment sheds, fencing and irrigation. Responsible for maintaining farm equipment including foliar applicators, chain saws, gas powered pole saws, hand tools, lawn mowers, tractor and tillers. Coordinate guest speakers for program. Work with other departments on campus and other campuses within the University of Hawai`i system. Develop relationships with government and private sectors of agriculture, water, alternative energy and other inter-related groups across the State of Hawai`i.

Farm Operations Field Logistics Manager (Nov 2015- April 2016)

Rising Sun Organic Farms

Moloa`a , Kaua`i

Managed field operations of organic production farm. Managed a staff of ten personnel. Managed for soil fertility, pest and disease control, field operations. Coordinated with nursery staff and harvesting and marketing staff regarding production scheduling, farm operations and long term goals.

Horticulture Specialists, (July 2014 – Dec 2014)
McBryde Garden, National Tropical Botanical Garden
Lāwā`i, Kaua`i

Applied skills and knowledge of landscape installation and maintenance procedures for the largest ex-situ collection of native Hawaiian flora in existence. Assigned jobs, projects and areas to maintain or over see with minimal or no supervision, train or lead others in such areas and supervise volunteers and interns working on certain sections or projects. Identified and managed pest infestations and nutrient deficiencies in garden collections. Controlled weeds using physical, mechanical and chemical methods. Wrote reports as needed and maintained records of plant records and plant care practices. Communicated with visitors, school groups and other who have questions about the gardens and its collections.

Conservation Technician (Sept. 2013- July 2014)
Limahuli Garden & Preserve, National Tropical Botanical Garden
Hā`ena, Kaua`i

Involved with multiple ongoing conservation projects in the Limahuli Preserve on the island of Kaua`i. Projects include in-situ restoration, ex situ-conservation, incipient weed control and vertebrate pest control programs and other remote fieldwork. Responsibilities: include plant collection, plant propagation, site preparation, maintenance of nursery stock for out-planting, weed removal using manual methods and chain saws, weed eaters, brush cutters, saws and herbicide, animal control of barn owls, cats and rats using conibear, leg-hold and good nature traps and dispatching of these species to protect native plants and endangered seabirds: Newell's Shearwater (*Puffinus newelli*) and Hawaiian Petrel (*Pterodroma sandwichensis*), pesticide application to protect endangered out-plantings, data entry associated with grant-funded projects and plant records. Lead and educated volunteers, interns, educational groups and community members in restoration practices in the forest and farm work in the Valley. Provided work to lower farm/garden and canoe garden during work time and afterhours time. Work at farm and canoe garden includes management of lo`i and `auwai, propagation of seedlings and establishment of cuttings, establishing row crops of leafy greens, fruits and vegetables, weed and pest management.

Operations Manager (Jan 2013 – Sept 2013)
Kua`Āina Farms, Landscape and Consultation
Umauma, Hawai`i Island

Harvested, packaged and sold taro, ginger, avocado, citrus, bananas, lychee, longan, pole beans, tomatoes, leafy greens along with other fruits and vegetables. Farm duties include weed and pest management, pruning and fertilizing of orchard and row crops. Maintained nursery crops, installed and maintained irrigation equipment and built greenhouses. Farm tools include spray applicators, chain saws, gas powered pole saws, machetes, lawn mowers, tractor, tillers etc. Also provided landscape design consultation, installation and maintenance for private landowners focusing on edible, medicinal and native plants. Contracted numerous bids and sourced all material equipment, plants and tools provided plant propagation and air layers for landscape projects. Also provide integrated pest and disease management for landscape projects.

Farm Technician (Jan 2013 – Sept 2013)
Jem Orchids and Exotic Fruits
Hakalau, Hawai`i Island

Responsible for harvesting, packaging and selling rambutan, longan, lychee, mangosteen, durian, avocado, citrus and bananas. Other duties include weed and pest management, pruning and fertilizing of orchards. Tools for the job include: spray applicators, chain saws, gas powered pole saws, machetes, lawn mowers, tractor etc.

Co-Manager (June 2012 – Dec 2012)

Maui Orchards and Gardens

Pā`ia, Maui

Provided landscape design consultation, installation and maintenance of private landowners focusing on edible, medicinal and native plants in a diversity of climates on Maui. Contracted numerous bids and sourced all material equipment, plants and tools provided plant propagation and air layers. Also provide integrated pest and disease management for landscape projects.

Farm Technician (June 2012– Dec 2012)

Young's Farm

Wailua, Maui.

Planted, harvested, performed pest and weed management, fertilized and established new banana, sweet potato and lo`i taro patches. Routinely harvested and packaged tī leaf for hālau hula.

Biological Technician (March 2012- May 2012)

Private Forest Owner

Volcano, Hawai`i Island

Project was part of private landowners contract with U.S. Department of Agriculture's NRCS conservation program. Controlled and managed non native grasses, herbs, shrubs and trees (most notably *Psidium cattleianum*, *Tibouchina* sp., *Clidemia hirta*) in Native Wet Forest of the upper Puna district of Hawai`i Island. Utilized chain saws, weed eaters, brush cutters, saws and herbicide. Native species were also out-planted during this project.

Field Crew Leader (May 2011 – Oct 2011)

Mauna Kea Baseline Botanical Survey

Mauna Kea, Hawai`i Island

Conducted intensive botanical studies of entire mountain in alpine and subalpine zones (9,000-13,796 ft elevation), established vegetation survey transect and helped create research study design. Performed data entry and managed large Excel botanical transect data sets along with GIS database. Conducted data analysis and prepared data summaries and displays. Provided maps and assisted in writing, reviewing and editing of reports to Office of Mauna Kea Management. Maintained all field equipment, off road vehicles and facilitated daily field logistics.

Biological Technician (Jan 2011 – April 2011)

Private Forest Owner

Volcano, Hawai`i Island

Project was part of private landowners contract with U.S. Department of Agriculture's NRCS conservation program. Controlled and managed non native grasses, herbs, shrubs and trees (most notably *Psidium cattleianum*, *Tibouchina* sp., *Clidemia hirta*) in Native Wet Forest of the upper Puna district of Hawai`i Island. Utilized chain saws, weed eaters, brush cutters, saws and herbicide. Native species were also out-planted during this project.

Resource Conservation Intern (June 2010 – Aug 2010)

**U.S Department of Agriculture, Natural Resources Conservation Service
Hilo, Hawai'i Island**

Assisted field staff in implementation and management of conservation plans and contracts (CREP, ECP, EQIP). Worked with private landowners and other State and Federal agencies in developing and providing technical assistance for conservation plans. Performed land surveys and other field work for conservation plans, contracts and monitoring purposes. Assisted in creating, editing and reviewing reports for conservation plans. Land uses covered under these plans included: cropland, pasture & multistory cropping forest areas. Also created database for conservation practices of windbreak, silvopasture & agroforestry. This database project was under the direction of NRCS State Forester and covered Hawai'i and all U.S. Pacific Island Areas (Guam, FSM, CNMI, Am. Samoa). Utilized ARCGIS, Microsoft Excel, Word, Garmin G.P.S units.

Soil Scientist Intern (June 2009 – Aug 2009)

**U.S Department of Agriculture, Natural Resources Conservation Service
Hilo, Hawai'i Island**

Performed soil descriptions, collected soil samples and assisted in soil transects for surveys in a variety of climates often-in unfavorable weather. Digitized soil maps using ArcMap, SCAN weather station maintenance, assisted field office with transition to organic ratings for EQIP, organic initiative project for private land owners on the island.

Farm Technician (August 2009 – June 2012)

**Hāmākua Coast Farm
Umauma, Hawai'i Island**

Seasonal worker involved in harvesting, fertilizing, pruning and weed managing in various field systems. Production focus was on lychee and taro. Maintenance of fencing for sheep pastures was also involved in this work.

Farm Manager (Feb 2008 – March 2012)

**Mañana Farms
Ola'a, Hawai'i Island**

Farm manager for nine-acre operation. Harvested, packaged and sold taro, ginger, avocado, citrus, bananas, bell pepper, pole beans, tomatoes, leafy greens and chicken eggs. Farm duties include weed and integrated pest management, pruning and fertilizing of orchard and row crops, feeding and caring for chicken operation, fencing and feral animal control. Maintained nursery crops, installed and maintained irrigation equipment and built greenhouses. Activity restored Hawaiian wetland forest on three acres of the property. Farm tools include spray applicators, chain saws, gas powered pole saws, machetes, lawn mowers, tractor, tillers etc.

Data Analyst / Field Crew Technician (Jan 2008 – April 2009)

**The Lāna'i Watershed Fog – Drip Project
Lāna'i**

A climate/hydrology project by Pacific Environmental Planning & Island of Lāna'i. Collected field data, performed statistical analysis and prepared data summaries and displays for technical reports. Installed and maintained weather stations on Lāna'i summit. Assisted creating, editing and reviewing reports to the island's managers.

Botanical Surveyor (Feb 2008 – Oct 2008)

Environmental Impact Statements

Pohakuloa Training Area and Lai`opua, North Kona Hawai`i Island.

Surveys at Pohakuloa Training Area and Lai`opua, North Kona. Surveyed endangered species of Aupaka (*Isodendron pyrifolium*) *Stenogyne angustifolia*, Honohono (*Haplostachys haplostachya*) and Uhiuhi (*Caesalpinia kawaiensis*). Non-endangered native and non-native grass, herb, shrub and tree species were also identified during these surveys.

Forestry Technician (Aug 2008 – Oct 2008)

Hawai`i Permanent Plot Network (HIPNET)

Laupāhoehoe Natural Area Reserve and Pu`u wa`awa`a, Hawai`i

Worked as part of a team establishing plots, measuring, tagging and mapping trees and shrubs in both Hawaiian rain and dryland forests. Collected and recorded large amounts of data identifying flora utilizing Juniper Allegro Field PC. Navigated with GPS units, compasses, and maps. Network consists of permanent plots in Laupāhoehoe Natural Area Reserve and Pu`u wa`awa`a. A collaborative study with University of Hawai`i, USDA Forest Service and UCLA.

President (September 2007 – May 2008)

Honua, UHH Geography and Environmental Science Club

University of Hawai`i- Hilo

Hilo, Hawai`i

Facilitated club field excursion to UC Berkley field station on Mo`orea in French Polynesia with Hawai`i Community College Forest Team members. Examined littoral, lowland and montane forests of Mo`orea. Assisted in study of Miconia (*Miconia calvescens*) dispersal by native and alien birds of the island. Worked with community on Hawai`i Island and Mo`orea in educating about the affects of invasive species in the ecosystems.

Farm Technican (September 2005 – December 2007)

University of Hawaii at Hilo Pana`ewa Agricultural Farm,

Pana`ewa, Hawai`i Island

Maintained orchards by mowing, weed and pest management, fertilizing, pruning and harvesting. Maintained fence paddocks, constructed greenhouses, installed irrigation systems, propagated seedlings, performed air layers, maintained nursery plants. Painted structures, welded nursery tables, maintained farm equipment, recorded data and recognized diseased plants; gained knowledge of experimental design requirements and farming methods in following: crop propagation; care of farm animals and poultry; safety precautions and use of fertilizers, insecticides or herbicides; care and use of pastures.

COMMUNITY VOLUNTEER WORK:

- ***Hui Maka`aina o Makana (2014- Current)***
Hā`ena, Kaua`i
- ***Mālama Kaua`i (2014 – Current)***
Kīlauea, Kaua`i
- ***Waipā foundation (2014- Current)***
Waipā , Kaua`i
- ***Kaua`i Community Radio (2014- Current)***
Hanalei, Kaua`i
- ***Kaiao Community Garden (September 2005- October 2009)***
Hilo, Hawai`i

CERTIFICATIONS AND TRAINING:

A-219 Helicopter Transport of External Cargo –(June 2014)

Repelling and Ropes Safety Training –(May 2014)

A-100 Basic Aviation Safety –(March 2014)

Hawai`i Hunter Education Course – (Dec. 2013)

Wilderness First Responder Course – (Nov. 2013)

Wilderness First Aid Course – (Nov. 2013)

CPR Course including AED – (Nov. 2013)