

## Windy Keala McElroy, PhD

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### Academic Background

- 2007 Doctor of Philosophy Degree  
University of Hawai'i at Mānoa, College of Arts and Sciences- Anthropology  
Dissertation title: *Development of Irrigated Agriculture in Wailau Valley, Moloka'i, Hawai'i*
- 2001 Master of Arts Degree  
University of Hawai'i at Mānoa, College of Arts and Sciences- Anthropology  
Thesis title: *Variability in Poi Pounders from Kaua'i Island, Hawai'i*
- 1998 Bachelor of Arts Degree with Distinction  
University of Hawai'i at Mānoa, College of Arts and Sciences- Anthropology

### Selected Academic Publications

In Publication "The Challenges and Rewards of Working at a Remote Site: Lessons Learned in the Valley of Four Hundred Waterfalls" in Suzanne Finney (ed.) *Realizing Archaeology: Personal Stories from Asia and the Pacific Islands*. Honolulu: University of Hawai'i Press.

In Preparation "Plant microfossil analysis reveals human activity in and around Hawaiian Island fishponds, including introduced Polynesian and European multi-cropping" with Mark Horrocks, Ena Sroat, Jillian Swift, Mara Mulrooney, and Tanya Lee-Grieg. *Journal of Polynesian Archaeology and Research*.

2018 "A Pedagogical Approach to Indigenous Community-Based Archaeology in Hawai'i: The North Shore Field School." With C.P. Lima, M.M.T. Labra, T.P.K. Tengan, and J.M. Bayman. *Journal of Community Archaeology & Heritage*, DOI: 10.1080/20518196.2018.1545627.

2015 "Modified Coral from Nu'alolo Kai." In *Abundance and Resilience: Farming and Foraging in Ancient Kaua'i*. Edited by Julie S. Field and Michael W. Graves.

2012 "Approaches to Dating Wetland Agricultural Features: An Example from Wailau Valley, Moloka'i Island, Hawai'i." In *Irrigated Taro (Colocasia esculenta) in the Indo-Pacific*. Edited by Matthew Spriggs, David Addison, and Peter J. Matthews. *Senri Ethnological Studies*.

2011 Anatomy of an Unfinished *Lo'i* System: The Ku'ele West Complex in Wailau Valley, Moloka'i. With Steven Eminger. *Hawaiian Archaeology* 12:47-64.

2010 Geochemical Sourcing of Basalt Artifacts from Kaua'i Island, Hawai'i. With P. Mills, S. Lundblad, J. Field, A. Carpenter, and P. Rossi. *Journal of Archaeological Science* 37:3385-3393.

2009 "Archaeological Sites of Moloka'i." With Steven Eminger. In *Archaeology in America An Encyclopedia*, edited by Francis P. McManamon, Linda Cordell, Kent Lightfoot, and George Milner. Preston, CT: Greenwood Publishing Group.

2005 "An Analysis of Coral, Basalt, and Sea Urchin Spine Abrading Tools from Nu'alolo Kai, Kaua'i." With Cyril Calugay. In *Na Mea Kahiko O Kaua'i: Archaeological Studies in Kaua'i*, edited by Mike Carson and Michael Graves, pp. 212-235. Society for Hawaiian Archaeology Special Publication 2. Honolulu: Society for Hawaiian Archaeology.

2003 Rethinking the Traditional Classification of Hawaiian Poi Pounders. *Rapa Nui Journal*. 17(2): 85-93.

### Selected Technical Reports (authored/co-authored more than 250)

2023 *Burial Site Component of an Archaeological Data Recovery Plan for Human Remains Found at the Hanalei Pavilion, SIHP 50-03-03-01428, Hanalei Ahupua'a, Halele'a District, Kaua'i*. Kaneohe: Keala Pono Archaeological Consulting, LLC.

- 2021 *Archaeological Monitoring Report for Geotechnical Drilling for Causeway Repair at Smiling Cove and Outer Cove in the American Memorial Park, Saipan, Commonwealth of the Northern Mariana Islands.* Prepared for the National Park Service. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2020 *Archaeological Monitoring Plan for the Proposed Mokio-Anapuka Conservation Fence Project within the Mokio Preserve, Kaluako'i Ahupua'a, Kona District, Island of Moloka'i, Hawai'i.* Prepared for the Moloka'i Land Trust. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2019 *Archaeological Survey for Geotechnical Testing at Kuaokala Ridge, Ka'ena and Keawa'ula Ahupua'a, Waialua and Wai'anae District, Island of O'ahu, Hawai'i.* Prepared for the Missile Defense Agency. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2018 *Archaeological Inventory Survey for Improvements to Girl Scout Camp Kilohana, Ka'ohe Mauka Ahupua'a, Hāmākua District, Island of Hawai'i.* Prepared for Girl Scouts of Hawai'i. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2017 *Archaeological Monitoring Report for Kamehameha Highway Resurfacing from Mālaekahana Stream Bridge to Kahawainui Stream, Mālaekahana and Lā'iewai Ahupua'a, Ko'olaupoko District, Island of O'ahu.* Prepared for Road and Highway Builders. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2016 *Burial Site Component of an Archaeological Data Recovery Plan for Piers 12 and 15, Honolulu Ahupua'a, Kona District, Island of O'ahu.* Prepared for Hawaiian Dredging Construction Company. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2015 *Archaeological Monitoring Report for Revegetation Efforts at the Hakioawa Watershed, Kaho'olawe, Hawai'i.* Prepared for the Kaho'olawe Island Reserve Commission. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2014 *Archaeological Assessment for 30 Pu'u in Hawai'i Volcanoes National Park, Kahuku, Kapāpala, Ka'ohe Mauka, and Humu'ula Ahupua'a, Ka'ū, Hāmākua, and Hilo Districts, Island of Hawai'i.* Prepared for The Carnegie Institution of Washington, D.C. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2013 *Archaeological Inventory Survey for a Proposed Solar Farm in Kalaeloa, Honouliuli Ahupua'a, 'Ewa District, Island of O'ahu.* Prepared for Mana Elua. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2012 *Archaeological Monitoring Report for Construction of an A-Side Remote Block Change Antenna at Kaena Point Satellite Tracking Station, Ka'ena Ahupua'a, Waialua District and Keawa'ula Ahupua'a, Wai'anae District, Island of O'ahu, Hawai'i.* Prepared for Honeywell Technology Solutions, Inc. Hau'ula: Keala Pono Archaeological Consulting, LLC.
- 2011 *Archaeological and Cultural Monitoring for Helemano Trail Construction Activities for the Stryker Brigade Combat Team, Wai'anae Uka, Wahiawā, Kamananui, and Pa'ala'a Uka Ahupua'a, Wahiawā and Waialua Districts, O'ahu Island, Hawai'i.* Prepared for the U.S. Army Engineer District, Honolulu. Hau'ula: Keala Pono Archaeological Consulting, LLC.
- 2009 *Traditional Hawaiian Occupation and Lō Ali'i Social Organization on O'ahu's Central Plateau: An Ethno-Historical Study.* Prepared for the U.S. Army Engineer District, Honolulu. Kailua: Garcia and Associates.
- 2008 *Archaeological Monitoring Plan for the Northern Tipalao Housing Project, Tipalao, Municipality of Santa Rita, Territory of Guam.* Prepared for Watts Constructors. Kailua: Garcia and Associates.
- 2007 *Historic Architectural Building Survey and Phase I Cultural Resource Survey for Military Housing and Privatization Actions at Schofield Barracks, Island of O'ahu, Hawai'i.* Prepared for Tetra Tech, Inc. Kailua: Garcia and Associates.
- 2006 *Archaeological Monitoring and Investigations During Installation of Leach Fields at Bellows Air Force Station and Hickam Air Force Base, Waimānalo, Ko'olaupoko, and Moanalua, Kona, O'ahu.* Prepared for Shaw Environmental, Inc. Honolulu: T.S. Dye & Colleagues, Archaeologists, Inc.
- 2004 *Archaeological Monitoring Report for Soil and Groundwater Investigation at the Pier Dump Site, Marine Corps Training Area at Bellows (MCTAB), O'ahu, Hawai'i.* Prepared for CH2M Hill Honolulu: T.S. Dye & Colleagues, Archaeologists, Inc.
- 2003 *Archaeological Monitoring for the Installment of Communication Lines at Hickam Air Force Station, Hawai'i.* Prepared for Henkels and McCoy. Honolulu: T.S. Dye & Colleagues, Archaeologists, Inc.

### Selected Presentations at Professional Meetings

- 2012 *Lawa Pono 'o Hālawā, (Hālawā is adequately supplied): The ahupua'a model demonstrated through stone tool economies of East Moloka'i, Hawai'i.* With L. Brandt, P. Lima, P. Mills, and S. Lundblad. Presented at the 25<sup>th</sup> Annual Society for Hawaiian Archaeology Conference in Keauhou, Hawai'i, October 20, 2012.
- 2010 *Incorporating Student Training in the Cultural Resource Management Industry: An Example from Ahu a 'Umi.* Presented at the 23<sup>rd</sup> Annual Society for Hawaiian Archaeology Conference in Kapa'a, Hawai'i, October 15, 2010.
- 2009 *Approaches to Dating Wetland Agricultural Features: An Example from Wailau Valley, Moloka'i Island, Hawai'i.* Presented at the 19th Congress of the Indo-Pacific Prehistory Association in Hanoi, Vietnam, December 5, 2009.
- 2008 *The Development of Wetland Agriculture in a Windward Hawaiian Valley: Evaluating Factors of Risk, Effort, and Production Output in Wailau, Moloka'i.* Presented at the 73rd Annual Society for American Archaeology Meeting in Vancouver, BC, March 27, 2008.
- 2006 *Teaching Applied Archaeology in the Community: The Moloka'i Archaeological Training Program.* With C. Calugay. Presented at the 19<sup>th</sup> Annual Society for Hawaiian Archaeology Conference in Kahului, Maui, October 8, 2006.
- 2005 *Making the Most of Museum Collections: Analyses of Kaua'i Poi Pounders and Artifacts from Nu'alolo Kai.* Presented at the Annual Meeting of the Kaua'i Historical Society in Lihu'e, Hawai'i, 19 May, 2005.
- 2004 *Advancing Archaeological Classification of Fish Hooks from Hawai'i: A Case Study from Nu'alolo Kai, Kaua'i.* With Michael Graves. Presented at the 17<sup>th</sup> Annual Society for Hawaiian Archaeology Conference in Kona, Hawai'i, 14 November, 2004.

### Selected Community Presentations and Outreach

2010–2014 Society for Hawaiian Archaeology, Publications Chair/Journal Editor 2010–2014

- 2012 *Getting to the Top: Lessons Learned from the Himalayas and Kilimanjaro.* Presented at Windward Community College, March 15, 2012 for Women's History Month.

2008–2010 Society for Hawaiian Archaeology, Communications Secretary/Webmaster 2008–2010

- 2010 *Merging Archaeology with the Local Community: The Moloka'i Archaeological Training Program and Wailau Research Project, Moloka'i Island, Hawai'i.* Presented at the University of Hawai'i at Mānoa Department of Anthropology Spring 2010 Colloquium Series, March 11, 2010.
- 2008 *Wailau, Moloka'i.* Episode aired on the television series *Pacific Clues*. PBS Hawai'i, 25 November, 2008.
- 2007 *Lo'i Agriculture in a Remote Valley: Results of the Wailau Archaeological Research Project, Moloka'i Island, Hawai'i.* Presented at the Bernice Pauahi Bishop Museum, Honolulu, April 5, 2007.
- 2004 *Archaeology of Bellows Air Force Station.* Presented at the Environmental Justice Workshop, sponsored by the 15<sup>th</sup> Airlift Wing, Hickam Air Force Base Environmental Restoration Program. Held at Bellows Air Force Station, Waimānalo, Hawai'i, 13 May 2004.
- 2003 *History of Bellows Site O-18.* Presented to the Waimānalo community and the University of Hawai'i West O'ahu Anthropology Club at Bellows Air Force Station, Waimānalo, Hawai'i, 25 January 2003.

### Training

Spring 2009 National Preservation Institute NEPA Compliance and Cultural Resources Seminar.

Spring 2006, Spring 2008, Spring 2010 Comprehensive Basic Life Support course. Certified in adult CPR, child and infant CPR, emergency basic first aid, and cognitive AED skills.

Spring 2004, Spring 2005, Spring 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010, Spring 2018 Hazardous Waste Operations and Emergency Response (HAZWOPER) 8-hour refresher course. A yearly review of material covered in the 40-hour course.

Spring 2003 Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-hour training course. Focused on identifying and working safely around hazardous materials.

Summer 2000 University of Arizona Archaeological Field Training Program. Five weeks of excavation, survey, mapping, artifact processing, lectures, and field trips. Excavations were conducted in east-central Arizona at the Bryant Ranch Site, a pueblo occupied between ca. AD 1250 and 1300.

Summer 1999 University of Hawai'i Archaeological Field School at Kaniakapupu in Nu'uuanu Valley. Six weeks of fieldwork included archival research, mapping, photography, profiling, survey, and excavation of the 19<sup>th</sup> century summer estate of King Kamehameha III.

Selected Experience (practicing archaeologist for more than 20 years)

Fall 2009-Present: *Principal*, Keala Pono Archaeological Consulting, LLC

Experienced in fieldwork, laboratory work, and report writing for cultural resource management projects for federal, state, and private contracts.

Summer 2023: *Field Technician*, Human-Environment Interactions in Central Eastern Polynesia Project

Assisted Dr. Jennifer Kahn with one week of excavations of a rockshelter site on Rurutu in the Austral Islands.

Spring 2013-Summer 2015: *Assistant Professor*, University of Hawai'i at Mānoa

Responsible for leading an archaeological field training program every Saturday on the North Shore of O'ahu. This program was unique in that it involved high levels of community engagement, with community members participating in many of the activities.

Spring 2006-2011: *Senior Archaeologist*, Garcia and Associates

Field supervisor, project manager, and principal investigator experienced in archaeological inventory survey, monitoring, data recovery, laboratory work, and report writing. Worked continuously on federal projects for approximately four of the six years with this firm.

Summer 2010: *Field School Director*, University of Hawai'i at Hilo

Directed the first ever cultural resource management internship program, co-sponsored by the University of Hawai'i at Hilo and Kamehameha Schools. Three weeks of fieldwork were conducted at the 5,200-ft. elevation ceremonial site of Ahu a 'Umi on Hawai'i Island. Trained Native Hawaiian interns in survey, mapping, and excavation, and mentored the interns with individual research projects.

Summer 2010: *Field Technician*, Uxbenká Archaeological Project

Three weeks of excavation at Uxbenká, a Maya polity dating from 1900-1200 BP in the tropical lowlands of Belize. Conducted excavations at a mountain shrine complex, Mayan tombs, and an elite residential group.

Spring 2003-Fall 2005: *Supervisory Archaeologist*, T.S. Dye & Colleagues, Archaeologists, Inc.

Directed archaeological inventory survey, data recovery, and burial relocation projects throughout the state of Hawai'i. Worked on federal projects throughout my tenure.

Summer 2005: *Field School Director*, University of Hawai'i Maui Community College

Ran an archaeological field training program in the remote valley of Wailau on Moloka'i. Eight weeks of fieldwork consisted of survey, mapping, and excavation of wetland agricultural complexes and historic habitation sites. Trained 17 students and volunteers in archaeological field methods.

Spring 2005: *Lecturer*, University of Hawai'i Maui Community College

Instructor for Anthropology 290 (Heritage Sites in Archaeology) taught on Moloka'i Island. This 3-credit course consisted of classroom lectures that focus on issues germane to practicing archaeology in Hawai'i and has a fieldwork component that includes survey and mapping in Kamalō Ahupua'a.

Summer 2003: *Field Technician*, Huahine Project, French Polynesia

Three weeks of fieldwork included excavation and plane table and alidade mapping of *marae* on Mata'ire'a Hill, Huahine.

Spring 2002: *Field Technician*, Sigatoka, Fiji

Two weeks of fieldwork assisting Julie S. Field on her dissertation research on ring ditch fortifications in the Sigatoka Valley. Conducted survey, excavation, photography, and auto level mapping.

Summer 2001: *Field Technician*, Kohala, Hawai'i

Assisted Dr. Michael Graves with a GPS survey of the extensive Kohala field system, an area in excess of 20 square miles which contains some of the best evidence of ancient dry land agriculture in Hawai'i. Four weeks of fieldwork included survey, excavation, and GPS mapping.