

# 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 Ponders 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

1994

Associate in Arts Degree, Windward Community College, Kāne'ohe, Hawai'i

## Selected Academic Honors and Awards

2006 National Science Foundation Doctoral Dissertation Improvement Grant

2006 Arts & Sciences Advisory Council Award, University of Hawai'i at Mānoa

2005 Graduate Student Organization Travel Award, University of Hawai'i at Mānoa

2004 Graduate Student Organization Travel Award, University of Hawai'i at Mānoa

2003 Hawai'i Council for the Humanities Preservation Grant (with Michael Graves)

2001 Three-year Ford Foundation Predoctoral Fellowship Award

2000 The University of Hawai'i Foundation Rodney P. Santos Scholarship

## Selected Memberships

Register of Professional Archaeologists

Society for American Archaeology

Indo-Pacific Prehistory Association

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

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

## Selected Academic Publications

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.
- 2005 “Hawaiian Fishhook Classification, Identification, and Analysis, Nu‘alolo Kai (Site 50-30-01-196), Kaua‘i.” With Michael Graves. In *Na Mea Kahiko O Kaua‘i: Archaeological Studies in Kaua‘i*, edited by Mike Carson and Michael Graves, pp. 188-211. 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 more than 200)

- 2017 *Archaeological Monitoring Plan for the Proposed University of Hawai‘i at Mānoa Life Science Building, Waikīkī Ahupua‘a, Kona District, Island of O‘ahu*. With Dietrix Duhaylonsod. Prepared for G70. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2016 *Cultural Impact Assessment for Girl Scout Camp Improvements, Paumalū, Ahupua‘a, Ko‘olauloa District, Island of O‘ahu*. With Michael Graves and Dietrix Duhaylonsod. Prepared for G70. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2015 *Archaeological Monitoring Report for Revegetation Efforts at the Hakioawa Watershed, Kaho‘olawe, Hawai‘i*. With Dietrix Duhaylonsod. Prepared for the Kaho‘olawe Island Reserve Commission. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2014 *Archaeological Monitoring for Kaunakakai Wharf Improvements, Kaunakakai Ahupua‘a, Kona District, Island of Moloka‘i*. With Mina Elison. Prepared for Hawaiian Dredging Construction Company, Inc. 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*. With Mina Elison. Prepared for Mana Elua. Kaneohe: Keala Pono Archaeological Consulting, LLC.
- 2012 *Archaeological Inventory Survey for a Proposed Solar Farm in Kalaeloa, Honouliuli Ahupua‘a, ‘Ewa District, Island of O‘ahu*. Prepared for Mana Elua. Hau‘ula: 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 *Cultural Impact Assessment for Kaka‘ako, Ahupua‘a of Waikīkī, Kona District, Island of O‘ahu, Hawai‘i*. With Mina Elison. Prepared for Kewalo Development, LLC. Hau‘ula: Keala Pono Archaeological Consulting, LLC.
- 2010 *Archaeological Inventory Survey of the Glass House Property, Mapulehu Ahupua‘a, Kona District, Island of Moloka‘i TMK (2) 5-7-008:076*. Prepared for New West Land Company, Inc. Kailua: Garcia and Associates.
- 2009 *Archaeological Inventory Survey of Fiber Optic Cable Corridor, Spencer Beach, Kawaihae 2 Ahupua‘a, South Kohala District, Island of Hawai‘i. TMK (3) 6-2-002:008*. Prepared for AMEC Earth and Environmental, Inc. Kailua: Garcia and Associates.

- 2008 *Archaeological Monitoring Report for the Sandwich Isles Communication's Fiber Optic Duct Lines Project, Maunaloa and Waimānalo Ahupua'a, Kona and Ko'olaupoko Districts, Island of O'ahu, Hawai'i.* Prepared for Ku'iwalu LLC. Kailua: Garcia and Associates.
- 2008 *Cultural Impact Assessment for Pelekunu Valley, Ko'olau District, Moloka'i Island.* With Steven Eminger. Prepared for The Nature Conservancy. 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.* With Cassidy DeBaker, Carole Denardo, and Mike Desilets. Prepared for Tetra Tech, Inc. Kailua: Garcia and Associates.
- 2006 *Archaeological and Cultural Monitoring Plan for the Helemano Trail Construction Activities for the Stryker Brigade Combat Team, O'ahu Island, Hawai'i.* With Michael Desilets. Prepared for the U.S. Army Engineer District, Honolulu. 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.* With Thomas S. Dye and Elaine H.R. Jourdane. Prepared for Shaw Environmental, Inc. Honolulu: T.S. Dye & Colleagues, Archaeologists, Inc.
- 2005 *Reinterment Report for Burials of Site 50-80-02-1878 at TMK:5-8-9:41 Wainiha, Halele'a, Kaua'i.* Prepared for T. Matthew Hunter. Honolulu: T.S. Dye & Colleagues, Archaeologists, Inc.
- 2004 *Archaeological Investigation of Kaliuwa'a (Sacred Falls), Kaluanui Ahupua'a, Ko'olaupoko, O'ahu.* Prepared for Oceanit Laboratories, Inc. 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 Hālawa, (Hālawa 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 *Mohala Pono Ka 'Ike (Knowledge that is Rightfully Gained): Community Outreach and Educational Opportunities for the Next Generation of Hawaiian Archaeologists.* With Kelley Uyeoka. Session organized at the 23<sup>rd</sup> Annual Society for Hawaiian Archaeology Conference in Kapa'a, Hawai'i, October 15, 2010.
- 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 Līhu'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.

- 2004 *Variability in Poi Pounders of Kaua'i Island, Hawai'i*. Poster presented at the 69<sup>th</sup> Annual Society for American Archaeology Conference in Montreal, Canada. 1 April 2004.
- 2000 *Expanding the Role of Artifact Analysis in Hawaiian Archaeology: A Comparison of Coral and Basalt Artifacts of Nu'alolo Kai, Kaua'i*. Presented at the 13<sup>th</sup> Annual Society for Hawaiian Archaeology Conference in Hilo, Hawai'i, 7 October, 2000.

#### Selected Community Presentations

- 2014 *Careers in Archaeology*. Presented to Mina Elison's class of 7<sup>th</sup> to 10<sup>th</sup> graders in the Hui Mālama O Ke Kai program in Waimānalo, O'ahu, 17 April, 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.
- 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.
- 2008 *Wailau, Moloka'i and Pacific Clues*. Interview with Kehau Fernandez on *Aha'i 'Olelo Ola*, on Sunrise on KGMB 9 News. 15 October, 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.
- 2005 *Poi Pounders of Kaua'i*. Poster displayed as part of an archaeology exhibit at the Kaua'i Museum, Līhu'e, Hawai'i. January-December 2005.
- 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.
- 2004 *Soil Characterization in Archaeology*. Presented to Nalani Naluai's fifth grade class at Kamehameha Elementary School, Honolulu, Hawai'i. 5 February 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.
- 2001 *GPS Mapping the Kohala Field System*. Presented to Susan Fushikoshi's third grade class at Kamehameha Elementary School, Honolulu, Hawai'i, 27 September 2001.

#### 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 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'uanu 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.

## Experience

- Fall 2009-Present: *Principal*, Keala Pono Archaeological Consulting, LLC  
Experienced in fieldwork, laboratory work, and report writing for cultural resource management projects. Keala Pono is a small business, woman owned business and minority owned business that emphasizes community outreach and training. We have had federal, state, and private contracts.
- 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.
- Spring 2002-2004: *Archaeology Lab Supervisor*, University of Hawai'i at Mānoa  
Laboratory supervisor of students enrolled in Anthropology 210 (Introduction to Archaeology). Duties include teaching students to catalog, photograph, and classify artifacts from Nu'alolo Kai, Kaua'i.
- 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.
- Fall 1998-Spring 2000: *Volunteer*, University of Hawai'i Archaeology Lab  
Helped with the analysis of artifacts from the Nu'alolo Kai collection. Completed a paper each semester on this research.