

CURRICULUM VITAE

Kāwika Winter

Director, Limahuli Garden and Preserve

P.O. Box 808

Hanalei, Hawai`i 96714

kwinter@ntbg.org

Office: (808) 826-1668

Mobile: (808) 346-5708

Education and Research Experiences

- ❖ Ph.D. candidate in Botany (present)
 - University of Hawai`i at Mānoa
 - Emphasis in Cognitive Ethnobotany
 - Dissertation topic: The Reciprocal Influences that Cultures and Plants have on each other's Evolutionary Paths

- ❖ Masters of Science in Botany (August 2004)
 - University of Hawai`i at Mānoa
 - Emphasis in Cultural and Ecological Ethnobotany
 - Thesis topic: Hawaiian `Awa (*Piper methysticum*), A Study in Ethnobotany
 - Collected rare `Awa varieties from remote locations and farmers
 - Propagated `Awa for growth experiments
 - Conducted experiments using a common garden
 - Interviewed kūpuna (elders) about `Awa traditions
 - Archival research
 - Coursework focused in the area of ecology, conservation, and native plants

- ❖ Hālau Hula `o Kukunaokalā (active member 1997 – 2005)
 - Kumu Hula (Hula Master) John Ka`imikaua
 - Ancient chant and dance of pre-contact Moloka`i
 - Learning about the vast amount of information contained in ancient chants and dances – including ecological knowledge, resource management systems, philosophies, thought processes, cultural practices, history, etc.
 - Cultural excursions to Moloka`i to feel the spirit of the ancestors and of the land in the places we chant and dance about.

- ❖ Kūpuna Mānaleo (Native Speaking Elder) Training (1998 – 2005)
 - Learning Hawaiian language and traditional cultural practices
 - Eddie Kamakani Kaanaana (Miloli`i) 1925 - 2006
 - Lilia Wahinemaika`i Hale (Molokai) 1913 - 2003
 - Elia “Kawika” Kapahulehua (Ni`ihau) 1928 - 2007

- ❖ Lā`au Lapa`au (Hawaiian Herbal Medicine) Training (2002 – 2005)
 - Kumu Levon Ohai (Kaua`i), 7th generation healer
 - I have embarked on a lifelong road of learning the art of healing using both native and introduced plants.

- ❖ Ecological Ethnobotany Research (April 2003)
 - “Research on Impacts of Gathering Culturally Important Native Plants”
 - Coordinated by Dr. Tamara Ticktin and `Ilio`ulaokalani Coalition
 - Learning from kūpuna about traditional gathering and resource management
 - Collecting quantitative data on size and health of remote and non-remote Mokihana (*Pelea* spp.) for the purposes of making inferences on the effects of abandonment of traditional gathering practices on health of Mokihana populations.

- ❖ Cognitive Ethnobotany Research (Summer 2002)
 - Research assistant for Kamaui Aiona
 - Learning from kūpuna about names, habitat, and ecology of the *limu* (seaweed) of Hāna, Maui.
 - Collecting, identifying, and making herbarium specimens of the *limu* of east Maui.

- ❖ Bachelors of Art in Botany (December 2001)
 - University of Hawai`i at Mānoa
 - Coursework focused in ecology and conservation

- ❖ Maryknoll High School (1995)
 - Honolulu, Hawai`i

Managerial Training

- ❖ Agricultural Leadership Program, Class XI (August 2006 – October 2007)
 - Sponsored by the College of Tropical Agriculture and Human Resources (UH)

- ❖ Hazard Recognition and Safety Training (April 24, 2007)
 - Workshop conducted by Hawaii Employer's Mutual Insurance Company

- ❖ Managing and Motivating: Ten Keys to Success (January 19, 2006)
 - Workshop conducted by Constant Training

- ❖ Dealing with Difficult People and Conflict (January 20, 2006)
 - Workshop conducted by Constant Training

- ❖ Building Positive Attitudes in the Workplace (January 20, 2006)
 - Workshop conducted by Constant Training

Employment Experience

- ❖ Director (April 2005 – present)
 - Limahuli Garden and Preserve (National Tropical Botanical Gardens)
 - Stated goals: discovery, conservation, research, and education
 - Managing all aspects of the 1,000 acre botanical garden and nature preserve

- ❖ Graduate Research Assistant
 - Lyon Arboretum (May 2004 – April 2005)
 - Developing science curriculum based in Hawaiian culture that is also “standards-based,” “place-based,” and “practice-based”
 - Developing collections of Hawaiian canoe-plant varieties
 - Conducting research in cultural and medical ethnobotany utilizing intracultural research methods
 - Restoring ancient lo`i system
 - Liaison between the Arboretum and lo`i restoration partners

Supervisor: Dr. Pauline Chinn and Dr. Will McClatchey

- ❖ `Awa Festival Co-coordinator (2003 – 2005)
 - “The Hawai`i & Pacific Islands `Awa Festival: A Celebration of Traditions”
 - October 2003 and October 2004 (postponed) at the Lyon Arboretum
 - Coordinating cultural practitioners and entertainment
 - Coordinating vendors and volunteers
 - Logistical support
 - Mediate between practitioners and event planners

- ❖ Graduate Research Assistant
 - Lyon Arboretum (January 2002 – May 2004)
 - Conducting research on Hawaiian `Awa (*Piper methysticum*)
 - Interviewing kūpuna about `Awa culture in Hawai`i
 - Documenting biodiversity level of Hawaiian `Awa that once existed
 - Collecting all known remaining cultivars
 - Learning how to distinguish cultivars from expert Hawaiian farmers
 - Conducting a common garden experiment to determine the remaining biodiversity of Hawaiian `Awa

Supervisor: Dr. Alan Teramura, Lyon Arboretum Director

- ❖ Lo`i Hand (1997 – 2003)
 - Ānuenu Hawaiian Language Immersion School (K-12), Pālolo, O`ahu
 - Restoration and maintaining traditional agricultural systems
 - Managing collections of rare Hawaiian varieties of taro (*Colocasia esculenta*)
 - Coordinating volunteer groups (elementary – college, and various community groups)
 - Education about Hawaiian conservation and resource management practices
 - Supervising workers

Supervising Kupuna: Eddie Kaanaana

- ❖ Teaching Assistant (Fall 2003, Fall 2002)
 - Botany Department (University of Hawai`i at Mānoa)
 - Botany 105: Introduction to Ethnobotany
 - Producing curriculum for lab classes
 - Integrating Hawaiian language and knowledge into lecture and lab classes

Supervisor: Dr. Will McClatchey

- ❖ Harold St. John Courtyard Caretaker (1999 – 2001)
 - Maintaining and planting of botanical garden for the purposes of use by the botany department at the University of Hawai`i at Mānoa.
 - Assisted students with botanical questions

Supervisor: Dr. Gerry Carr

Teaching Experience

- ❖ Instructor (Summer 2007)
 - Botany 446: Advanced Hawaiian Ethnobotany
 - Department of Botany, Ethnobotany Track (University of Hawai`i at Mānoa) via Limahuli Garden and Preserve
 - Lead instructor: Dr. Will McClatchey

- ❖ Instructor/Coordinator (Summer 2007)
 - Hā`ena Summer Program
 - Aimed at passing on Traditional Resource Management to the youth of Hā`ena

- ❖ Education Specialist (May 2004 – April 2005)
 - Lyon Arboretum Education Program
 - Developing and testing curriculum, planning and teaching summer program, conducting field trips and guided tours, and maintaining an outdoor classroom.
 - Funded by a grant from: No Child Left Behind (May 2004 – September 2004)
 - Pilot tested new programs developed under NCLB in summer 2004
 - Funded by the grant: Pikoī Ke Kaula Kualena - Focus on the Essential Core (October 2004 – April 2005)
 - A Project to develop culturally relevant, standards-based science curricula for teachers of Hawaiian and Part Hawaiian students
 - CFDA 84.362A, U.S. Department of Education, through Consortium for Hawaii Ecological Engineering Education.

- ❖ Intern Supervisor / Instructor (Spring 2005)
 - Hawaiian Studies 640: Hawaiian Resources Internship
 - Hui Konohiki Program (University of Hawai`i at Mānoa)
 - Lead instructors: Dr. Carlos Andrade, Dr. Ka`eo Duarte, Dr. Lawren Sack, Dr. Cindy Hunter

- ❖ Instructor (Spring 2005, Fall 2003, Spring 2003)
 - Botany 444: Ecological Ethnobotany
 - Department of Botany (University of Hawai`i at Mānoa)
 - Lead instructor: Dr. Tamara Ticktin

- ❖ Instructor (Spring 2005)
 - Botany 446: Advanced Hawaiian Ethnobotany
 - Department of Botany (University of Hawai`i at Mānoa)
 - Lead instructor: Dr. Will McClatchey

- ❖ Instructor (Fall 2004)
 - Botany 105: Introduction to Ethnobotany
 - Department of Botany (University of Hawai`i at Mānoa)
 - Lead instructor: Dr. Tamara Ticktin

- ❖ Instructor (Summer 2004)
 - Education and Curriculum Studies 433: Interdisciplinary Science Curriculum, Malama I Ka 'Aina, Sustainability
 - Department of Education and Curriculum Studies (University of Hawai`i at Mānoa)
 - Lead instructor: Dr. Pauline Chinn

- ❖ Teaching Assistant (Fall 2003, Fall 2002)
 - Botany 105 Lab: Introduction to Ethnobotany Lab
 - Department of Botany (University of Hawai`i at Mānoa)
 - Lead instructor: Dr. Will McClatchey

- ❖ Volunteer Educator (1997 – 2003)
 - Ānuenue Hawaiian Language Immersion School (K-12)
 - Pālolo, O`ahu, Hawai`i
 - Practice-based, place-based, Hawaiian language education about traditional Hawaiian resource management
 - Supervisor: Eddie Kaanaana

- ❖ Lecturer (2001 – 2002)
 - Honolulu Community College
 - Continuing Education and Training Program
 - Team-teaching, with Jonathan Yee, three classes pertaining to `Awa
 - Introduction to `Awa: The Sacred Pacific Beverage
 - Growing, Economics, & Future of `Awa
 - The `Awa Beverages: Taste Comparisons

Papers Presented at International Conferences

- ❖ Winter, K., W. McClatchey 2007. "Tourism and Twisting of Ethnobotanical Concepts in Polynesia." The Society for Economic Botany annual meeting, Chicago, Illinois. June 6, 2007.
- ❖ Winter, K. 2007. "Limahuli Garden and Preserve: A Place of Refuge for the Living Hawaiian Culture." Ethnobotany Summit, National Tropical Botanical Garden, Kaua`i, Hawai`i. January 29, 2007.
- ❖ Winter, K. 2006. "Ethnobotanical Gardens: Beneficial or Detrimental to Indigenous Communities?" The Society for Economic Botany annual meeting, Chiang Mai, Thailand. June 7, 2006.
- ❖ Winter, K. 2005. "Hawaiian `Awa (*Piper methysticum*): A Look into Re-evolving Traditions and Quantum Ethnobotany Theory." The Society for Economic Botany annual meeting, Fort Worth, Texas. June 5, 2005.
- ❖ Austin S., Winter K., and Chinn P. 2005. "Place-based Education: A Hawaiian Perspective." The Society for Economic Botany annual meeting, Fort Worth, Texas. June 6, 2005.
- ❖ Winter, K. 2004. "Hawaiian Limu: Developing Culturally Relevant Science Curriculum." The Role of Indigenous Knowledge in Schools: Science and Mathematics in Pacific Island and Pacific Rim Nations Conference. College of Education, University of Hawai`i at Mānoa. 10/14/2004.

Papers Presented at State and National Conferences

- ❖ Winter, K. 2007. "Ahupua`a Restoration: Rebuilding Sustainable Communities in Hawai`i." Hō`ea Ea: Hands Turned the Soil Conference 2007. Hilo, Hawai`i. June 15, 2007.
- ❖ Winter, K. 2007. "Ahupua`a Restoration in Ha`ena, Kaua`i." IGERT Marine Conservation and Health Conference. University of Hawai`i at Manoa. March 8, 2007.
- ❖ Winter, K. 2006. "The Hā`ena Ahupua`a Project: Using Ancient Concepts to Solve Contemporary Problems in Hawai`i." Western Chapter International Erosion Control Association's Ahupua`a Conference. Waikiki, Hawai`i. December 14, 2006.

Invited Guest Lectures

- ❖ Winter, K. 2007. "Teaching Through Culture." Hawai'i Tourism Authority's annual Industry Holiday Breakfast. December 7, 2007.
- ❖ McClatchey, W., K. Winter & K. Bridges. 2007. "Ethnobotanical Basis of Plant Classification Systems in Polynesia." Jean Andrews Visiting Faculty Fellow of Tropical and Economic Botany, invited speaker, University of Texas, Austin. March 20, 2007
- ❖ Winter, K. 2007. "Impacts of Invasive Species on Hawaiian Culture." Hanalei, Hawai'i. March 15, 2007. Sponsored by the Kaua'i Invasive Species Council.
- ❖ Winter, K. 2005. "Hawaiian Taro (*Colocasia esculenta*) Varieties and How to Distinguish Them." Kaua'i Taro Festival, College of Tropical Agriculture and Human Resources (CTAHR) Agriculture Extension Station. Wailua, Kaua'i, Hawai'i.
- ❖ Winter, K. 2005. "`Awa Traditions in an Era of `Awa Bars." Guest lecture for the Hawai'i and Pacific Islands `Awa Festival. University of Hawai'i at Mānoa. October 9, 2005.
- ❖ Winter, K. 2005. "Traditional Ecological Knowledge and Traditional Resource Management in Ancient Hawai'i with Specific Examples from Pre-ali'i Moloka'i." Guest lecture in the Department of Botany, University of Hawai'i at Mānoa (Botany 444 Ecological Ethnobotany, Dr. Tamara Ticktin), 4/17/03. The same talk was also given in the Spring 2003 and Fall 2003.
- ❖ Winter, K. 2005. "Ethnographic Research Methodologies in Hawai'i." Guest lecture in the Department of Urban and Regional Planning, University of Hawai'i at Mānoa (Plan 751 Planning Practicum, Dr. Luciano Minerbi) 2/14/2005.
- ❖ Winter, K. 2003. "The Binomial Nomenclature and Classification Systems of Pre-contact Hawai'i." Seminar in the Department of Botany, University of Hawai'i at Mānoa, 4/03.

- ❖ Winter, K. 2003. “`Awa: A Gift to the Descendants.” Hilton Hawaiian Village, Hawaiian Cultural Exhibit from Bishop Museum, 6/27/03.
- ❖ Winter, K. 2002. “Cultural Restoration for Biodiversity Conservation in Hawai`i.” Seminar in the Department of Botany, University of Hawai`i at Mānoa, 12/2/02.
- ❖ Winter, K. and Yee, J. 2002. “The Culture and Cultivation of `Awa in Hawai`i.” Lyon Arboretum, 10/19/02.

Publications: Peer Review

- ❖ Winter, K. 2004. “Hawaiian `Awa (*Piper methysticum*): A Study in Ethnobotany.” Mater’s of Science Thesis. Department of Botany, University of Hawai`i at Mānoa. Hawai`i.

Publications: Non-Peer Review

- ❖ Winter, K. 2005. “Distinguished Economic Botanist 2005.” *Plants and People*, Fall 2005.
- ❖ Winter, K. 2005. “He Makahiki Hou, E Kāpae I Ka Ino” Kauakūalahale Column of the *Honolulu Star Bulletin* (in Hawaiian), 1/2/2005.
- ❖ Winter, K. 2003. “No Ka `Awa” Kauakūalahale Column of the *Honolulu Star Bulletin* (in Hawaiian), 9/28/2003.
- ❖ Winter, K. 2002. “A Hua A Pane!” Kauakūalahale Column of the *Honolulu Star Bulletin* (in Hawaiian), 12/15/02.
- ❖ Winter, K. 2002. “He Kanikau no Ku`u Koko`olua.” Kauakūalahale Column of the *Honolulu Star Bulletin* (in Hawaiian), 12/1/02.
- ❖ Winter, K. 2002. “Current Ethnobotanical Research of Hawaiian `Awa.” Association for Hawaiian `Awa Annual Newsletter, 4/02.

Awards, Fellowships, and Scholarships

- ❖ Koa Award (2007)
 - Hawai'i Tourism Authority's highest award at its annual Keep It Hawai'i ceremony
 - Awarded to Limahuli Garden and Preserve for its longstanding dedication for the perpetuation of Hawaiian Culture.
- ❖ Fellow of the National Wildlife Federation (2005)
 - Limahuli Lo'i and Riparian Zone Restoration
- ❖ Beatrice Krauss Scholarship (2002, 2003)
 - Offered by the Department of Botany, UH Mānoa
- ❖ Isabella Abbott Fellowship for Undergraduate Research (2001)
 - Offered by the Department of Botany, UH Mānoa
- ❖ Golden Key National Honors Society

Professional Societies and Other Organizations

- ❖ The Society for Economic Botany
 - Current member (2005 – present)
- ❖ Kaua'i Taro Growers Association
 - Current member (2006 – present)
- ❖ The Ethnobiology Society at the University of Hawai'i at Mānoa
 - President (Fall 2003)
 - Organized meetings
 - Documentation of dying Hawaiian practices
 - Member (2001 – 2003)
- ❖ Associated Students of the University of Hawai'i (1997 – 1998, 1998 – 1999)
 - Student Government
 - Senator of Arts and Sciences 1997-98
 - Re-elected 1998-99

Grants

- ❖ Hā`ena Ahupua`a Project (2005 – 2007)
 - Administered a \$300,000 grant over the course of three years
 - Granted by the Lannan Foundation

- ❖ Graduate Student Organization Travel Grant (2005)
 - For travel to the annual meeting of the Society for Economic Botany
 - \$800

Related Hobbies and Interests

- ❖ Hiking
 - I have hiked to remote valleys and mountains on the islands of O`ahu, Maui, Moloka`i, Kaua`i, and Hawai`i
 - Observed native plant and bird habitats
 - Collect rare varieties of canoe-plants
 - Educate children and adults about native/invasive plants, resource management, conservation, etc.

- ❖ Free Diving
 - I have observed the effects that the abandonment of traditional resource management systems has had on ocean biodiversity.

- ❖ Conversing with Kūpuna (elders) in the Hawaiian Language
 - Learning about life in old Hawai`i, the wisdom of the elders, and continuing my education of Hawaiian language.

- ❖ Collecting Hawaiian Cultivars of Canoe Plants
 - Taro, Banana, Sweet Potato, `Awa, Sugar Cane
 - Most of these cultivars are very rare and as they go extinct with them dies another part of Hawaiian culture. My goal is to prevent that.
 - Create networks between ethnobotanical collections and farmers

- ❖ Hawaiian Ethnogeography
 - Ancient place names, including district boundaries, and the stories associated with them.
 - Ancient rain, wind, cloud, rainbow, and current names, as well as the stories associated with them.

- ❖ Lo`i Restoration
 - I have played a significant role in the restoration of ancient lo`i on O`ahu
 - Pūkele in Pālolo
 - `Aihualama in Mānoa
 - I have helped and learned from taro farmers all over Hawai`i
 - Kaua`i: Hā`ena, Anahola
 - O`ahu: Waiāhole, Kānewai, Lā`ie
 - Moloka`i: Hālawa
 - Maui: Kahakuloa, Ke`anae, Kipahulu
 - Hawai`i: Waipi`o, Pāhoa, Kōhala

- ❖ Reading Hawaiian Mo`olelo and Ka`ao
 - Hawaiian stories and oral histories published in either the old Hawaiian language newspapers (1830's - 1940's) or as a book. I have read completely all of the below.
 - Anonymous. 1917. "He Moolelo Kaa No Namakaokapao." Serial in Ka Nupepa Kuokoa 1/5/1917 – 4/20/1917.
 - Bush J.E. 1891. "He Moolelo No Kamapuaa." Serial in Ka Hae Hawaii 6/22/1891 – 9/28/1891.
 - Desha, S.L. 1920 – 1924. "He Moolelo Kaa No Kekuhaupio." Serial in Ka Hoku o Hawaii 12/16/1920 – 9/11/1924.
 - Dibble et al. 1838. "He Moolelo Hawaii." Published by Lahainaluna.
 - Nakuina M.K. 1902. "Moolelo Hawaii o Kalapana: Ke Keiki Hoopapa o Puna, Buke I."
 - Poepoe J.M. 1909. "Ka Moolelo Hiwahiwa o Kawelo." Serial in Home Rula 1/1/1909 – 1910.
 - Uaua W.H. "He Moolelo Kaa no Kaehuikimanoopuuloo" Serial in Ke Au Okoa 11/24/1870 – 1871.
 - Various Authors. 1864 – 1865. "Hoomana Kahiko." Serial in Ka Nupepa Kuokoa 10/29/1864 – 4/14/1866.

References

- ❖ Kamaui Aiona (National Tropical Botanical Garden)
 - Director, Kahanu Garden
 - P.O. Box 95
Hana, Hawaii 96713
 - (808) 248-8912
 - kaiona@ntbg.org

- ❖ Dr. Carlos Andrade (Hui Konohiki)
 - Nāmakakūokalani Center for Hawaiian Studies, University of Hawai`i
Honolulu, Hawai`i 96822
 - (808) 652-0841
 - carloso@hawaii.edu

- ❖ Dr. Will McClatchey (Cultural and Medical Ethnobotany)
 - Department of Botany, University of Hawai`i
Honolulu, Hawai`i 96822
 - (808) 956-8369
 - mcclatch@hawaii.edu

- ❖ Charles “Chipper” Wichman (Chief Executive Officer)
 - National Tropical Botanical Garden
3530 Kalāheo, HI 96741
 - (808) 332-7324 ext. 240
 - wichman@ntbg.org