

CURRICULUM VITAE

Kāwika Winter

Director, Limahuli Garden and Preserve

P.O. Box 808

Hanalei, Hawai`i 96714

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Office: (808) 826-1668

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Education and Research Experience

- ❖ Ph.D. candidate in Botany (present)
 - University of Hawai`i at Mānoa
 - Emphasis in Theoretical Ethnobotany
 - Dissertation topic: Quantifying ethnobotanical evolution

- ❖ 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
 - 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

- ❖ 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 (*Melicope* 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

- ❖ Kaua`i Supervisory – Management Development Certificate Series (March-April 2008)
 - Eight workshops conducted by Hawai`i Employers Council
- ❖ Agricultural Leadership Program, Class XI (August 2006 – October 2007)
 - Sponsored by the College of Tropical Agriculture and Human Resources (UH)
- ❖ Constant Training
 - Running Successful Meetings (January 14, 2008)
 - Dealing with Difficult People and Conflict (January 20, 2006)
 - Building Positive Attitudes in the Workplace (January 20, 2006)
 - Managing and Motivating: Ten Keys to Success (January 19, 2006)
- ❖ Hazard Recognition and Safety Training (April 24, 2007)
 - Workshop conducted by Hawaii Employer’s Mutual Insurance Company

Board of Directors

- ❖ Hō`ola Lāhui Hawai`i (January 2008 – present)
 - Mission: To promote health and wellness through innovative and culturally appropriate services for Native Hawaiians, their families and others in need
- ❖ Mālama Kaua`i (December 2008 - present)
 - Mission: To *mālama*, or take care of, Kaua`i and the people who call Kaua`i home. Rooted in the core value of *aloha `āina* (love and connection to the land), we advocate, educate, and drive action towards a sustainable Kaua`i.

Employment Experience

- ❖ Director (April 2005 – present)
 - Limahuli Garden and Preserve (National Tropical Botanical Garden)
 - 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
 - Restoring ancient lo`i systemSupervisor: 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
- ❖ Graduate Research Assistant
 - Lyon Arboretum (January 2002 – May 2004)
 - Conducting ethnobotanical research on Hawaiian `Awa (*Piper methysticum*)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
 - Education about Hawaiian conservation and resource management practices
 - Managing collections of rare Hawaiian varieties of taro (*Colocasia esculenta*)
 - Coordinating and supervising workers and volunteer groupsSupervising Kupuna: Eddie Kaanaana

- ❖ Teaching Assistant (Fall 2003, Fall 2002)
 - Botany Department (University of Hawai`i at Mānoa)
 - Botany 105: Introduction to EthnobotanySupervisor: 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 questionsSupervisor: 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.

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

- ❖ Volunteer Educator (1997 – 2003)
 - Ānuenu 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
 - Three classes pertaining to `Awa
 - Introduction to `Awa: The Sacred Pacific Beverage
 - Growing, Economics, & Future of `Awa
 - The `Awa Beverages: Taste Comparisons

Publications: Peer Review

- ❖ **Winter K.** 2009. Social-ecological keystones and social-ecological redundants: Implications for managing social-ecological function and resilience. In McClatchey M. and R.J. Stepp (Eds) *Integrating Traditional Knowledge and Science: Emerging Ethnobiology Theory*. Submitted for review, January 1, 2009.
- ❖ **Winter K.** and McClatchey W. 2009. The Quantum Co-evolution Unit: An Example of `Awa (*Piper methysticum* G. Foster) in Hawai`i. *Economic Botany*, on-line (DOI 10.1007/s12231-009-9089-0).
- ❖ **Winter K.** and McClatchey W. 2008. Quantifying Evolution of Cultural Interactions with Plants: Implications for Managing Diversity for Resilience in Social-Ecological System. In: Albuquerque UP (Ed) *Ethnobotany: A Focus on Brazil. Functional Ecosystems and Communities 2* (Special Issue 1), 1-10.
- ❖ Prance GT, Aiona K, Balick MJ, Bennett BC, Bridges K, Burney DA, Pigott Burney L, Bye RA, Dunn L, Emshwiller E, Eubanks M, Flaster T, Kauka S, Lentz DL, Linares E, Lorence DH, McClatchey W, McMillen H, Merlin M, Miller JS, Moerman DE, Prance AE, Ragone D, Rashford JH, Raven P, Raven PH, Reedy D, Stepp JR, Tavana NG, Thaman R, Thomas MB, Ticktin T, Urban T, Van Dyke P, Wagner W, Whistler WA, Wichman CR Jr., Wichman H, **Winter K.**, Wiseman J, Wysong M, Yamamoto B. 2007. Ethnobotany, the Science of survival: A declaration from Kaua`i. *Economic Botany*, 61:1-2.
- ❖ McClatchey W. and **Winter K.** 2005. Publication of Ethnobotany Research in Local Languages. Editorial: *Ethnobotany Research and Applications* 3: 272-282.
- ❖ **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.

Papers Presented at International Conferences

- ❖ **Winter, K.** Seeing the *Waonāhele* from Amongst the Trees: A Culturally-Based, Whole-System View of Plant Biology. Annual meeting of the American Society of Plant Biologists. Hawai`i Convention Center, Honolulu. July 20, 2009.
- ❖ **Winter K.**, McClatchey W., Bridges K. 2009. The Role of Linguistics in Determining Social-Ecological Keystones. Supporting Small Languages Together: The First International Conference on Language Documentation and Conservation. University of Hawai`i at Mānoa, Hawai`i. March 14, 2009.

- ❖ **Winter K.** and McClatchey W. 2008. Ethnobotany as the Science of Survival: Lessons from Paradigms of Limited Resources. The Society for Economic Botany annual meeting, Duke University, North Carolina. June 3, 2008.
- ❖ **Winter K.** and McClatchey W. 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, Kauaʻi, Hawaiʻi. 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 ʻAwa (*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 Hawaiʻi at Mānoa. 10/14/2004.

Papers Presented at State and National Conferences

- ❖ **Winter, K.** 2009. Culturally-Based Solutions for a Multiplicity of Issues in a Changing Climate: Ahupuaʻa Lessons for Ecological, Agricultural, Fishery and Community Restoration. Hawaiʻi Conservation Conference: Hawaiʻi in a Changing Climate. Hawaiʻi Convention Center, Honolulu. July 28, 2009.
- ❖ **Winter K.** 2008. The Coupling of Cultural and Ecological Restoration: The Hāʻena Ahupuaʻa Project. The Hawaiʻi Hotel and Lodging Association's annual meeting. Poʻipū, Kauaʻi. October 31, 2008.
- ❖ **Winter K.** 2008. Culturally-Based Ecological Restoration. 2nd Kauaʻi Conservation Conference: Community-Based Conservation. Kauaʻi Community College, April 11, 2008.

- ❖ **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

- ❖ Au L, Ihara Jr. L, Love N, Shim P, Sproat K, **Winter K.** 2009. "The Ethics of Change" panel discussion. 5th Annual Envision Hawai`i Conference. State Capitol, Honolulu, Hawai`i. November 14, 2009.
- ❖ **Winter K.** 2009. Honoring Halele`a: Culture, History and Place. St. Regis Princeville grand opening employee training. Princeville, Hawai`i. September 25, 2009.
- ❖ **Winter K.** 2009. Traditional Resource Management of Ancient Hawai`i and its Application in a Modern Context. Guest lecture in the Department of Botany, University of Hawai`i at Mānoa (Botany 444 Ecological Ethnobotany, Dr. Tamara Ticktin). April 3, 2009.
- ❖ **Winter K** and DeMotta M. 2008. Native Plants: Cornerstones for Cultural and Ecological Restoration. Princeville Library Speakers Program. September 10, 2008.
- ❖ **Winter K** and Aiona M. 2008. Ahupua`a: People, Land and Water. National Tropical Botanical Garden's monthly lecture series. August 11, 2008.
- ❖ **Winter K.** 2008. Coastal Ecosystems in Hawai`i. Kilauea Point National Wildlife Refuge's annual seminar series. March 13, 2008.
- ❖ **Winter K.** 2008. `Iole: The Rat in Hawaiian Culture. Kaua`i Museum's "Year of the Rat Chinese New Year Celebration." February 2, 2008.
- ❖ **Winter K.** 2007. Teaching Through Culture. Hawai`i Tourism Authority's annual Industry Holiday Breakfast. December 7, 2007.
- ❖ McClatchey W, **Winter K**, and Bridges K. 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), April 17, 2003. 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) February 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, April 2003.
- ❖ **Winter K.** 2003. `Awa: A Gift to the Descendants. Hilton Hawaiian Village, Hawaiian Cultural Exhibit from Bishop Museum, June 27, 2003.
- ❖ **Winter K.** 2002. Cultural Restoration for Biodiversity Conservation in Hawai`i. Seminar in the Department of Botany, University of Hawai`i at Mānoa, December 2, 2002.
- ❖ **Winter K.** and Yee J. 2002. The Culture and Cultivation of `Awa in Hawai`i. Lyon Arboretum, October 19, 2002.

Publications: Non-Peer Review

- ❖ Brower A. and **Winter K.** 2009. Ahupua`a Management Offers Lessons. *The Garden Island*, Lihu`e, Hawai`i. February 22, 2009.
- ❖ **Winter K.** 2008. Walking a Hawaiian Forest. *The Bulletin of the National Tropical Botanical Garden* **25**(3): 22-25.

- ❖ **Winter K.** 2006. In the Days When Everything was Sacred. In S. Little and P. Ruthenberg (Eds), *Life in the Pacific of the 1700s* 3:46-47. Honolulu Academy of Arts, Honolulu.
- ❖ **Winter K.** 2005. Distinguished Economic Botanist 2005. *Plants and People*, Fall 2005.
- ❖ **Winter K.** 2005. He Makahiki Hou, E Kāpae I Ka Ino. “Kauakūkalahale” column of the *Honolulu Star Bulletin* (in Hawaiian), January 1, 2005.
- ❖ **Winter K.** 2003. No Ka `Awa. “Kauakūkalahale” column of the *Honolulu Star Bulletin* (in Hawaiian), September 28, 2003.
- ❖ **Winter K.** 2002. A Hua A Pane! “Kauakūkalahale” column of the *Honolulu Star Bulletin* (in Hawaiian), December 15, 2002.
- ❖ **Winter K.** 2002. He Kanikau no Ku`u Koko`olua. “Kauakūkalahale” column of the *Honolulu Star Bulletin* (in Hawaiian), December 1, 2002.
- ❖ **Winter K.** 2002. Current Ethnobotanical Research of Hawaiian `Awa. *Association for Hawaiian `Awa Annual Newsletter*, April 2002.

Popular Media and Interviews

- ❖ Kahoano K., Galuteria B., and Skylark. 2009. Na `Oiwi `Olino: OHA Morning Talk Show. Interview about culturally-based conservation in Hawai`i. KKNE 940AM, www.am940hawaii.com. July 13, 2009.
- ❖ Wall S. 2009. Preserving Land and Tradition: Young Professional Kawika Winter. *Pacific Edge Magazine: Hawai`i's Trends in business, culture, lifestyle and art*. April/May/June 2009, pp. 72-73.
- ❖ Zak J.C.K. 2006. *Pule Wailele*. DVD. Zakwest Productions Inc.

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 – 2008)
- ❖ The Ethnobiology Society at the University of Hawai`i at Mānoa
 - President (Fall 2003)
 - 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)
 - 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

References

- ❖ Dr. Carlos Andrade (Director, Nāmakakūokalani Center for Hawaiian Studies)
 - (808) 652-0841
 - carloso@hawaii.edu

- ❖ Dr. Will McClatchey (Cultural and Medical Ethnobotany)
 - (808) 956-8369
 - mcclatch@hawaii.edu

- ❖ Charles “Chipper” Wichman (Chief Executive Officer)
 - (808) 332-7324 ext. 201
 - wichman@ntbg.org