

STEPHANIE F. DUNBAR-CO

EDUCATION

PhD – “Island evolution: phylogeny, adaptive radiation, and biogeography of *Plantago* (Plantaginaceae) in the Hawaiian Islands”

University of Hawai‘i at Mānoa; Botany Department; Ecology, Evolution, and Conservation Biology Specialization

MSc – “Evolutionary and biogeographic patterns in *Plantago* (Plantaginaceae) in the Hawaiian Islands”

University of Hawai‘i at Mānoa; Botany Department; Ecology, Evolution, and Conservation Biology Specialization

BA – Biology Major, Chemistry Minor
University of San Diego, Honors Program
School for Field Studies, Queensland, AUS

High School
Seabury Hall, Makawao, HI

WORK EXPERIENCE

EAST SLOPE PROJECT MANAGER

The Nature Conservancy, Moloka‘i Program

- Develop and oversee forest conservation actions in the EMoWP’s East Slope management area
- Engage and collaborate with East Slope landowners, community members, and agency partners in project development and implementation

EAST SLOPE CONSULTANT

Hawai‘i Community Foundation Funded
State of Hawai‘i DLNR/DOFAW Contractor

- Initiate, design and develop a 10-year management plan for the East Slope
- Engage and collaborate with East Slope landowners, community members, and the EMoWP in project design, development, and implementation
- Write and manage grants

BOTANICAL CONSULTANT

Dunbar & Co, Inc.

- Secure contracts
- Perform botanical surveys for EAs and EISs
- Conduct field work throughout the MHI
- Competent in identifying a broad list of plant species in the field

ALA PĀLA‘AU PROJECT PLANNER

Ke ‘Aupuni Lōkahi, Inc.

- Designed a trail and native plant restoration project at Pāla‘au State Park
- Performed community outreach
- Wrote Environmental Assessment and 5-year management plan

FIELD BOTANIST

Plant Extinction Prevention Program, DLNR/USFWS

██████████
O'ahu, HI

- Surveyed areas on O'ahu for endangered plant species
- Monitored populations of endangered plant species in remote locations
- Collected material for *ex situ* propagation
- Highly competent in identifying endangered plant species in the field

VOLUNTEER EXPERIENCE

PROGRAM MANAGER

Kainalu Ranch

2007-Present

- Lead strategic planning for Kainalu Ranch
- Assist with the development of two conservation easements (FRPP, closed 2007; Forest Legacy, in process)
- Lead native plant restoration (grant management, plant acquisition, site preparation, planting, monitoring)
- Engage with the East Molokai community and agency and business partners

TEACHER

Kamehameha Schools

May 2007
O'ahu, HI

- Taught high school freshman about plant species and communities occurring in and around Kawainui Marsh, O'ahu

TEACHER

DNA Kids, UH CTHAR

Spring 2007
O'ahu, HI

- Taught elementary school students aspects of basic molecular biology

THE NATURE CONSERVANCY VOLUNTEER

Alien Algae Clean-Up

2003-2008
Honolulu, HI

- Assisted in the removal of alien algae from O'ahu's reefs and beaches
- Competent in identifying native and alien algae species

TEACHER

NSF GK-12 Graduate Fellowship Program

Summer 2003
Palmyra Atoll

- Taught high school students aspects of botany and conservation biology on Palmyra Atoll

BOTANIST

National Tropical Botanical Garden

Summer 2002
American Samoa

- Surveyed *Pisonia grandis* forests on Ta'u for National Park of American Samoa
- Provided habitat descriptions, species lists, and voucher specimens

PROFESSIONAL INTERESTS

Conservation project design and development, Island evolution, Pacific island floras, Natural resources management, Population genetics, Ahupua'a (place) based management, Holistic animal husbandry.

SKILLS

- Computer literate in Word, Excel, PowerPoint, Keynote, various email software programs
- Proficient in the statistical softwares Minitab and Sigma Plot
- Extensive field skills including plant identification, restoration, maintenance, monitoring, and specimen collection
- Effective communication skills including proposal grant writing, management plans, scientific publications, and public speaking

MAJOR GRANTS/AWARDS

University of Hawai'i Graduate Division's 'Ōiwi Ake Akamai Doctoral Completion Fellowship	██████ UH Mānoa
Environmental Protection Agency STAR: GRO Graduate Fellowship entitled, "Island evolution: phylogeny, adaptive radiation and island biogeography of <i>Plantago</i> (Plantaginaceae) in the Hawaiian Islands." (PhD degree)	██████████ UH Mānoa
DLNR/DOFAW Safe Harbor Agreement Grant for <i>Pritchardia munroi</i> restoration on private lands.	██████ Moloka'i, HI
Environmental Protection Agency STAR: MAI Graduate Fellowship entitled, "Evolutionary and biogeographic patterns in <i>Plantago</i> (Plantaginaceae) in the Hawaiian Islands." (MSc degree)	██████████ UH Mānoa
Graduate of the Honors Program	██████ USD
Departmental Honors in Biology	██████ USD
Presidential Scholar and Dean's List	██████████ USD

PUBLICATIONS

- Dunbar-Co, S. and A.M. Wiczorek. 2011. Genetic structure among populations in the endemic Hawaiian *Plantago* lineage (Plantaginaceae): insights from microsatellite variation. *Plant Species Biology* 26(1): 134-144.
- Dunbar-Co, S., L. Sack, and Margaret Sporck. 2009. Leaf trait diversification and design in seven rare taxa of the Hawaiian *Plantago* radiation. *International Journal of Plant Sciences* 170(1): 61-75.
- K. Wolff and S. Dunbar-Co. 2009. Cross species amplification of primers developed from *Plantago major* and *P. intermedia* in two Hawaiian *Plantago* species from the section *Plantago*. *Molecular Ecology Resources* 981-984.
- Dunbar-Co, S., A.M. Wiczorek, and C.W. Morden. 2008. Molecular phylogeny and adaptive radiation of the endemic Hawaiian *Plantago* species (Plantaginaceae). *American Journal of Botany* 95(9): 1177-1188.
- Dunbar, S.F. 2006. Phylogeny and evolution of *Plantago* (Plantaginaceae) in the Hawaiian Islands. *Pacific Science* 60(2): 305-314.
- Hoggard, R.K., N. Rønsted, S.F. Dunbar, P.J. Kores, and W.J. Nilsen. 2003. The origin and biogeography of the Hawaiian and South Pacific Ocean island endemic species of *Plantago* section *Plantago*. *Botany 2003 Abstracts, Botanical Society of America*.
- Dunbar-Co, S., D.L. Lorence, and C.W. Morden (in prep.). A revision of the Hawaiian *Plantago* (Plantaginaceae) radiation.

INVITED CONFERENCES AND PRESENTATIONS

- Dunbar-Co, S. The East Slope Update. East Molokai Watershed Partnership Annual Partners Meeting. Molokai, HI. August 8, 2014.
- Dunbar-Co, S. Bridging agriculture and conservation on private land. Hawai'i Conservation Conference. Honolulu, HI. July 16, 2014.

- Dunbar-Co, S. The East Slope: the proposed expansion of the East Molokai Watershed Partnership. 'Aha Kiole Community Meeting. Molokai, HI. September 20, 2013.
- Dunbar-Co, S. and E. Co. Kainalu Ranch: making a living out of a way of life. Kamehameha School Land Assets Division, Hawai'i Investment Ready Incubator Program. Honolulu, HI. August 23, 2013.
- Dunbar-Co, S. The East Slope. East Molokai Watershed Partnership Annual Partners Meeting. Molokai, HI. August 9, 2013.
- Dunbar-Co, S. The East Slope: the proposed expansion of the East Molokai Watershed Partnership. 'Aha Kiole Council Meeting. Molokai, HI. April 2, 2013.
- Dunbar-Co, S. Management planning for additional lands to the East Molokai Watershed Partnership. East Molokai Watershed Partnership Annual Partners Meeting. Molokai, HI. August 10, 2012.
- Dunbar-Co, S. Rare plant restoration on private land: a landowner's perspective. Hawai'i Conservation Conference. Honolulu, HI. August 2-5, 2011.
- Dunbar-Co, S. and A.M. Wieczorek. The role of molecular systematics in the conservation of rare species: a case study of *P. princeps* var. *princeps* on O'ahu. Hawai'i Conservation Conference. Honolulu, HI. July 26, 2007.
- Dunbar-Co, S., A.M. Wieczorek, and C.W. Morden. New islands, new species: a case study of *Plantago* (Plantaginaceae) in the Hawaiian Islands. Evolution Meetings. Christchurch, NZ. June 18-21, 2007.
- Dunbar-Co, S., L. Sack, and M. Sporck. Leaf trait diversification and design in seven Hawaiian *Plantago* taxa radiated across habitats. University of Hawai'i Botany Seminar Series. Honolulu, HI. April 28, 2007.
- Dunbar-Co, S., A.M. Wieczorek, and C.W. Morden. The importance of taxonomy in representing biodiversity: one *Plantago*, two *Plantago*, three *Plantago*, more? Hawai'i Conservation Conference. Honolulu, HI. July 26-28, 2006.
- Dunbar, S.F. and C.W. Morden. A DNA library of Hawaiian plants for taxonomic and natural products research. XVII International Botanical Congress. Vienna, Austria. July 17-23, 2005.
- Dunbar, S.F. Phylogeny and evolution of *Plantago* (Plantaginaceae) in the Hawaiian Islands. 30th Annual Albert L. Tester Memorial Symposium. Honolulu, HI. March 16-18, 2005.
- Dunbar, S.F. Island evolution: Speciation and phylogeny of *Plantago* (Plantaginaceae) in the Hawaiian Islands. Environmental Protection Agency STAR Graduate Fellowship Conference. Washington D.C. October 14-16, 2004.