

EDUCATION:

University of Hawai‘i at Mānoa (UHM) Fall 2014 - present

• Ph.D. Student, Department of Botany, Ethnobotany concentration. 4.0 GPA. Interdisciplinary specialization in Ecology, Evolution, & Conservation Biology. Advisor: Dr. Orou Gaoue

Cornell University

May 2014

• B.S., *summa cum laude*, Plant Sciences, concentration in Plants & Health. 4.0 GPA. Advisor: Dr. Michael Scanlon. Additional coursework at State University of New York at Potsdam (SUNY Potsdam)

HONORS AND AWARDS:

2015 ComSciCon National Workshop Travel Scholarship, \$900

2015 Professional Development Program Travel and Registration Scholarship, \$5400

2015 Honorable Mention, Graduate Research Fellowship Program, National Science Foundation

2015 Beatrice Krauss Fellowship, UHM, \$1500

2014 Charles A. Ring Memorial Award, Cornell University, \$200

2014 Kenneth Post Award, Cornell University, \$175

2014 Collegiate Scholar Award, American Society for Horticultural Science

2012 - 2014 Cornell University Dean's List

2013 H.R. Schenkel Sr. Memorial Fund Award, Cornell University, \$500

2010 - 2012 SUNY Potsdam President's List

2011 Bob Cerwonka Memorial Scholarship, SUNY Potsdam, \$1000

RESEARCH GRANTS:

\$4000 (6/28/2015 – 4/12/2016) American Philosophical Society Lewis & Clark Fund for Exploration & Field Research, *Intraspecific medicinal plant selection in North Malaita, Solomon Islands*

\$4500 (6/28/2015 – 4/12/2016) Garden Club of America Anne S. Chatham Fellowship in Medicinal Botany, *Intraspecific medicinal plant selection in North Malaita, Solomon Islands*

\$1234 (12/22/2014 – 1/23/2015) UHM Graduate Student Organization, *Intraspecific medicinal plant selection in Solomon Islands*

\$1000 (6/2/2013 – 7/26/2013) Cornell University Dextra Undergraduate Endowment Fund, *Biomedical potential of invasive plants in the Dominican ethnobotany*

PUBLICATIONS:

Bond, M., Aregullin, M., & Laux, M. 2014. Antimicrobial, cytotoxic, and antiproliferative properties of native and invasive orchids in the Dominican ethnobotany. *PennScience*, 12: 23-28.

Bond, M. 2013. Cross-cultural comparison of biomedical and ethnobotanical treatments for type II Diabetes Mellitus in Cree Nation of Eeyou Istchee. *Collegiate Anthropologist*, 33: 15-23.

PRESENTATIONS AND GUEST LECTURES: *primary presenter, † contributor, § poster

Danies, G., Romero-Navarro, J. A., Gonzalez-Garcia, L. N. Myers, K., Bevels, E., **Bond, M.**†, Wu, Y., Restrepo, S., & Fry, W. E. *Genetic architecture of complex traits of Phytophthora infestans determined through genome-wide association mapping*. American Phytopathological Society Annual Meeting. Pasadena, CA. (8/3/2015)

Bond, M.*§, Perez, K., & Tateno, A. *Engaging high school students in authentic research to classify unknown organisms*. ComSciCon National Workshop, Cambridge, MA. (6/20/2015)

Bond, M.* *Understanding medicinal plant selection and harvesting practices*. UHM Department of Botany Proposal Symposium, Honolulu, HI. (5/8/2015)

Bond, M.*§ & Gaoue, O. *Intraspecific medicinal plant selection in Solomon Islands*. UHM Tester Memorial Symposium, Honolulu, HI. (4/9/2015)

Bond, M.* *Intraspecific medicinal plant selection in Solomon Islands*. UHM BOT101, General Botany. Honolulu, HI. (2/18/2015)

Danies, G., Myers, K., Bevels, E., **Bond, M.†**, & Fry, W. *Phenotypic characterization of a sexual population of *Phytophthora infestans* in northeastern United States and Canada*. North American Late Blight Symposium. Minneapolis, MN. (7/8/2014)

Bond, M.*§, Danies, G., Myers, K., Bevels, E., Small, I., Patev, S., & Fry, W. *Effect of temperature on mycelial growth of recent clonal lineages of *Phytophthora infestans* in the United States and Mexico*. Cornell Summer Scholars Program. Geneva, NY. (8/1/2014)

Bond, M.*§ & Aregullin, M. *Evaluation of the medicinal potential of orchids cited in ethnobotanical accounts*. Cornell Undergraduate Research Board Annual Spring Research Forum. Ithaca, NY. (4/16/2014)

Bond, M.*§ & Aregullin, M. *Biomedical potential of native and invasive orchids in the Dominican ethnobotany*. Cornell Undergraduate Research Board Annual Fall Research Forum. Ithaca, NY. (11/13/2013)

Bond, M.*, Aregullin, M., & Laux, M. *Biomedical potential of native and invasive orchids in the Dominican ethnobotany*. MHIRT Medicinal Plants Symposium. Punta Cana, Dominican Republic. (7/23/2013)

Bond, M.*§, Bridgen, M., & Lamb, E. *Ethnobotanical survey of Easter Island*. Cornell University Horticulture Department Seminar. Ithaca, NY. (4/22/2013)

Bond, M.*§ & Ewy, R. *The efficacy of nepetalactone as an antibiotic: Comparison of essential oil extraction methods*. Northern New York chapter of The American Chemical Society Research Symposium. Potsdam, NY. (4/21/2012)

APPOINTMENTS:

At-large Student Committee Member June 2015 - present

- Society for Economic Botany

Initiate and maintain communication and outreach initiatives, including social media platforms.

Teaching Assistant Spring 2015

- University of Hawai'i at Mānoa. BOT 101, General Botany

Teach weekly lab sessions, created and revised lab protocol, and graded assignments.

Teaching Assistant Fall 2014

- University of Hawai'i at Mānoa. BOT 105, Ethnobotany

Taught weekly lab sessions, created and revised lab protocol, and graded assignments.

Research Assistant May 2014 - July 2014

- Cornell University. Lab of Dr. William Fry

Hired to assist graduate students, conduct individual research projects analyzing *Phytophthora infestans* (late blight of potato and tomato) isolates, and develop disease modeling software.

Undergraduate Teaching Assistant Fall 2011

- SUNY Potsdam. BIOL 151, General Biology I lab

Revised lab protocol, assisted students, and supervised lab set up and clean up.

Tutor Fall 2011

- SUNY Potsdam. BIOL 105, Introduction to Human Genetics

Organized groups of 3-6 tutees. Created individual study plans and guided group discussions.

INTERNATIONAL FIELD EXPERIENCE:**Understanding medicinal plant selection and harvesting practices** June 2015 - April 2016

- North Malaita, Solomon Islands

Dissertation fieldwork: exploring why your relationships, environment, and culture affect your medicinal plant knowledge.

Intraspecific Medicinal Plant Selection in Solomon Islands Dec. 2014 - Jan. 2015

- North Malaita, Solomon Islands

One month exploratory trip to prepare for future field work. Identified study villages, secured community support, procured research permits, and learned local languages.

Flora of Patagonia Field Study Jan. 2014

- Argentina and Chile. Cornell University, BIOPL 2300, Global Plant Biodiversity & Vegetation

Investigated diverse Patagonian ecosystems and vegetation types. Identified dominant species, collected and pressed herbarium specimens, performed line transect and basal area analyses.

Biodiversity and Ethnobotany of Easter Island Spring 2013

- Easter Island, Argentina. Cornell University, HORT 4940, Biodiversity on Easter Island

Explored ecological and cultural history of Easter Island and the Rapa Nui community. Designed and performed individual research project, "*Ethnobotanical Survey of Easter Island*".

Biomedicines and Control of Tropical Infectious Diseases and Vectors Summer 2013

- Punta Cana, Dominican Republic. Cornell University Minority Health and Health Disparities International Research Training (MHIRT) Program

Field and lab exploration of medical anthropology, plant taxonomy, phytochemistry, ecology, & pharmacology. Conducted individual research project, "*Biomedical Potential of Native and Invasive Orchids in the Dominican Ethnobotany*". Sponsored by NIH

Tropical Ecology and Conservation Internship Summer 2012

- Los Arboles Preserve, Tres Piedras, Costa Rica. Tropical Forestry Initiative

Conducted reforestation, biomass and diversity surveying, and erosion control projects. Constructed garden and wood-fired oven for community outreach and education.

PROFESSIONAL DEVELOPMENT:**ComSciCon National Workshop** June 18 - 20, 2015

- Harvard University. Boston, Massachusetts

Used art, writing, teaching, and public speaking to communicate science to diverse audiences and the general public both directly and in collaboration with media organizations.

Professional Development Program March - June 2015

- Institute for Scientist & Engineer Educators. Monterey, California; Waikoloa, Hawai'i

Designed equitable and inclusive inquiry-based learning activity for Science in Action (UHM). Taught high school students how to characterize Hawaiian algae by collecting and analyzing genetic, morphological and ecological data.

LANGUAGE SKILLS:

English: native
 Pijin (Solomons Pidgin): fluent
 Mbaelelea: conversant

OUTREACH:

Volunteer: Gene-ius Day 2015 Graduation May 30, 2015

• University of Hawai‘i at Mānoa

Led local students from grades 1-12 in a microscope activity to learn about plants and animals.

Participant: Gender, Identity, and Justice Apr. 25, 2015

• Hawai‘i People's Fund. Kapi‘olani Community College

Engaged in participatory training workshop for social justice organizers and practitioners.

Volunteer: Expanding Your Horizons Apr. 18, 2015

• University of Hawai‘i at Mānoa

Taught local middle school students about Hawaiian algae and led pressing activity.

Volunteer: UHM Ethnobiology Society Mar. 21 - 28, 2015

• Moloka‘i, Hawai‘i

Performed ecological, cultural, and native plant restoration projects in Kalaupapa National Historic Park and ‘Āina Pulapula farm.

Volunteer: Honolulu District Science and Engineering Fair Feb. 14, 2015

• Kapi‘olani Community College

Judged poster presentations of local middle school students.

Western Director, President, Past President Oct. 2009 - Oct. 2014

• National Junior Horticultural Association

Presided over, fundraised for, planned, and organized annual convention of ~300 delegates. Led and delegated tasks to 7 member officer team. President from Oct. 2011-2013, Western Director from Oct. 2009-2011. Member since Oct. 2007.

Resource Counselor June 18 - 22, 2012

• Rock County 4-H, Camp at Upham Woods, Wisconsin Dells, Wisconsin

Planned and led outdoor projects, games, and activities for six groups of 10-30 4-H youth.

Garden Coordinator May 2007 - Dec. 2011

• Ogdensburg Youth Garden Club

Created and maintained large community gardens. Planned educational activities and field trips.

Mentored groups of 3-5 youth. Member since 2001.

PROFESSIONAL AFFILIATIONS:

American Association for the Advancement of Science

International Society for Ethnopharmacology

Society of Ethnobiology

Society for Economic Botany

Botanical Society of America

Torrey Botanical Society

American Society for Horticultural Science

Association for Social Anthropology in Oceania

Association for Tropical Biology and Conservation

Pi Alpha Xi, the national horticulture honor society, Alpha chapter, Cornell University
Ho-Nun-De-Kah, the junior and senior honor society, Cornell University
Beta Beta Beta, national biological honor society, SUNY Potsdam
Phi Eta Sigma, national freshman honor society, Lambda Xi chapter, SUNY Potsdam

PROFESSIONAL CERTIFICATIONS:

Collaborative Institutional Training Initiative (CITI) Health Information Privacy and Security
(HIPS) for Clinical Investigators (Reference ID: 14255803)
Collaborative Institutional Training Initiative (CITI) Social & Behavioral Research
Basic/Refresher Curriculum (Reference ID: 14255802)
EPA Agricultural Worker Protection Standard Training. Verification number: NW0051526
Cornell University Environment, Health, and Safety Laboratory Training, in compliance with
OSHA Laboratory Standard