

David W. Taylor: Academic Curriculum Vitae

Academic Appointments

Associate Professor, University of Portland, Department of Biology, May 2016 - present.
 Assistant Professor, University of Portland, Department of Biology, January 2010 - May 2016.
 Joint appointment: Teaching Faculty, Northwestern University Program in Biological Sciences and the Graduate School Program in Plant Biology and Conservation; and Teaching Faculty, The School of the Chicago Botanic Garden, 2005 - 2009.
 Postdoctoral Visiting Research Scholar, National Taiwan University, College of Life Science, Taipei, Taiwan, 2005.
 Postdoctoral Research Fellow, University of Michigan, Ecology and Evolutionary Biology Department, 2003 - 2004.
 University of Michigan / Kalamazoo College Postdoctoral Teaching Fellow, 2001 - 2003.
 Graduate Student Instructor and Research Assistant, University of Michigan, Ecology and Evolutionary Biology Department and University of Michigan Herbarium, 1994 -2001.

Education

Ph.D., Biology, University of Michigan, Ecology and Evolutionary Biology Department, Ann Arbor, conferred 2001.
 M.S., Biology, University of Michigan, Ecology and Evolutionary Biology Department, Ann Arbor, conferred 1996.
 B.S., Ecology and Evolutionary Biology; Summa Cum Laude, Honors Scholar in Biological Sciences, and University Scholar (highest ranked academic award conferred at this institution); University of Connecticut, Storrs; conferred 1994.
 B.A., Spanish; Summa Cum Laude and University Scholar (highest ranked academic award conferred at this institution); University of Connecticut, Storrs; conferred 1994.

International Professional Experience

International Language Ability

Spanish: fluent speaking, proficient reading and writing.
 Mandarin Chinese: advanced beginner level conversation.
 French, Portuguese: advanced beginner level conversation, reading, writing.
 Arabic: have taken introductory college course.

Cross-cultural Botanical Research Experience

Carried out botanical fieldwork (more than thirty research seasons) with local collaborators in the following regions:

Americas: Costa Rica, Cuba, the Dominican Republic, Guatemala, Honduras, Mexico, Nicaragua, Panama, and Puerto Rico.
 Asia: Japan, People's Republic of China, Taiwan R.O.C., and Vietnam.
 Oceania: Australia and New Caledonia.

Teaching Experience at the University of Portland, Department of Biology (27 semesters):

Plants as Food and Medicine (BIO 107); Introduction to Evolution and Ecology (BIO 206/208); Introduction to Evolution and Ecology Laboratory (BIO 278); Plants and Civilizations (BIO 325); The Nature of Plants (BIO 341); Plants and Civilizations Laboratory (BIO 350); Field Botany (BIO 371); Service Learning in Biology (BIO 387); Research in Botany (BIO 493); Herbarium Internship (BIO 497); Senior Thesis, Honors (BIO 499H).

Teaching Experience prior to arriving at the University of Portland:

Northwestern University, Program in Biological Sciences and the Graduate School Program in Plant Biology and Conservation (10 quarters):

Plant-Animal Interactions (BIOL SCI 333, PBC 410); Spring Flora (BIOL SCI 316, PBC 415); The Nature of Plants (BIOL SCI 109); Freshman Writing Seminar (BIOL SCI 105-6: Science Writing for the Lay Reader).

The School of the Chicago Botanic Garden (4 years):

Core curriculum courses for Certificate Programs: Botany 1 and Botany 2
 Representative other courses: Pollination Biology; Volo Bog Adventure!; Local Flora: Spring; Plants and People Series (*e.g.* Potatoes, Tomatoes, and Chili Peppers: Crops the Americas have Given the World); Ferns and Mosses: Mysteries Revealed!; Botany for Beginners; How Sweet It Is! The Story of Sugar and Honey; Plants of the Spice Trade.

Kalamazoo College, Department of Biology, Postdoctoral Teaching Fellowship (2 years):

General Botany for biology majors and non-majors; Evolution and Genetics (co-taught).

University of Michigan, Ecology and Evolutionary Biology Department (10 semesters):

Laboratory Coordinator for Systematic Botany.
 Graduate Student Instructor for: Systematic Botany, Plant Kingdom, Practical Botany, Woody Plants, Introductory Biology for Science Majors, Biology for Non-Science Majors.

University of Connecticut, Department of Ecology and Evolutionary Biology (2 summers):

Summer Flora (EEB 4272)

Advising and Service while at the University of Portland:**Advising**

Undergraduate Academic Advisor, 21 - 48 students each semester, Fall 2010 - present.
 Faculty advisor to University of Portland Vietnamese Student Association, Fall 2021 - present.
 Faculty advisor to University of Portland Swing Dance Club, Fall 2015 - Spring 2020.

Service for the University

Teaching and Scholarship Committee, Fall 2019 - Spring 2022.
 Institutional Review Board Committee, Fall 2019 - Spring 2022.
 Phi Beta Kappa Faculty Committee, Spring 2019 - present.
 Academic Senate representative for the College of Arts and Sciences, Fall 2015 - Spring 2017.
 Presidential Advisory Committee on Health and Safety representative to the Academic Senate, Fall 2015 - Spring 2017.
 Presidential Advisory Committee on Health and Safety, Fall 2012 - Spring 2017.
 Faculty Welfare Committee member, Fall 2015 - Spring 2016.
 UP River Campus Bluff Floristic Survey and Analysis, needed by UP before construction could begin, 2013 - 2014.
 CORE Science Committee, Fall 2012.
 Alpine Garden Organizing Committee, Spring 2010.

Service for the Department of Biology

Co-Chair Department of Biology's Assessment Committee, Fall 2022 - present.
 Member Department of Biology's Assessment Committee, Fall 2013 - Spring 2022 (except for 2017-18 sabbatical year).
 Department of Biology's Awards Committee, Fall 2018 - present.
 Department of Biology's Introductory Biology Courses Organization Committee, Fall 2013 - present.
 Department of Biology's Hiring Practices Committee, Fall 2020 - Spring 2021.
 Department of Biology's Faculty Representative to the Honors Program, Fall 2015 - Spring 2017.
 Department of Biology, Search Committee member for two faculty positions, 2011 - 2012.

Service for the University of Portland Community

Invited speaker for Honors Orientation, August 2013 - August 2019.
 Invited speaker as "Rainforest Researcher" for three fifth-grade classes at Kelly Creek Elementary School, Gresham, OR (organized by Teacher Amanda Francois, UP alumna), February 2020.
 Invited speaker in LDR/ENV 391B on Ethnobotany, Spring 2019.

Dancer in Hawaii Club Luau, faculty dance performance, 2016, 2017, 2019, 2020 (on-line), 2022, 2023.

Leader of BIO 371 Field Botany as team responsible for University Park Street Tree Inventory, in collaboration with Portland Parks and Recreation, Urban Forestry Division, Fall 2011 - Fall 2016.

Building Community – Serving to Learn, Freshman service-learning experience, 2011 - 2013.

Service for the Professional Botanical Society

National Taiwan University, College of Life Science, external member of Ph.D. committee, 2023 - present.

Editorial board member and reviewer for *Taiwania International Journal of Life Sciences*, 2015 - 2022.

Reviewer for the *American Journal of Botany*, a premier peer-reviewed print journal published by the Botanical Society of America, 2015 - 2016.

Reviewer for the *Journal of Ethnobiology*, a peer-reviewed print journal published by the Society of Ethnobiology, 2013.

Chair of the Conservation, Restoration, and Community session, Society of Ethnobiology Conference, Denver, CO, 2012.

University Advising and Service prior to arriving at the University of Portland:

Freshmen Academic Advisor, Northwestern University, 2006 - 2008.

Faculty Fellow, International Studies Residential College, Northwestern University, 2006 - 2008.

Undergraduate Honors Committee, Program in Biological Sciences, Northwestern University, 2005 - 2008.

Masters Thesis Committee Member (for five students), Plant Biology and Conservation, the Graduate School, Northwestern University, 2006 - 2008.

Publications while at the University of Portland:

Manuscripts in Progress:

Thomas Mione, **David W. Taylor**, Karena Kulakowski, Patrick J. Kudewicz. Floral biology of *Jaltomata antillana* (Solanaceae) of the Greater Antilles.

David Taylor and Jer-Ming Hu. Reproductive Biology of *Mussaenda* (Rubiaceae) in Taiwan.

Published:

Anderson, G. J., J. Pérez de Paz, M. Anderson, G. Bernardello, and **David W. Taylor**. 2021. A leaky dimorphic sexual system and breeding system characterize a successful island colonist: The reproductive biology of *Plocama pendula* (Rubiaceae). *Botanical Journal of the Linnean Society*, XX: 1-16. <https://doi.org/10.1093/botlinnean/boab026>

D.W. Taylor and G. J. Anderson. 2020. Culinary Cultural Conservation and Cultural Keystone Food Groups: Concepts in Ethnobotanical Studies. *Human Ecology* 48(2): 189-198. DOI: [10.1007/s10745-020-00137-5](https://doi.org/10.1007/s10745-020-00137-5)

Katelin D. Stanley* and **D. W. Taylor**. 2015. Effect of Manual Ivy Removal on Seedling Recruitment in Forest Park, Portland, OR. *American Journal of Undergraduate Research* 12(4): 31-41.

(* former University of Portland undergraduate research student.)

David W. Taylor. 2014. “*Wandersong* (Rubiaceae), a new genus from the Greater Antilles,” *Journal of the Botanical Research Institute of Texas* 8(2): 529-530.

Capers, R.S. and **D. W. Taylor**. 2014. “Slow recovery in a Mount Washington, New Hampshire, alpine plant community four years after disturbance,” *Rhodora* 116(965): 1-24.

David W. Taylor and G. J. Anderson. 2014. “Key plants preserve elements of culture: A study over distance and time of fresh crops in Puerto Rican markets in Hartford, Connecticut, ‘A moveable feast’,” *American Journal of Botany* 101: 624-636.**

****Our research was featured as the cover image in this issue of the American Journal of Botany.**

D. W. Taylor. 2012. “ ‘*Chione* DC.’ in Rubiaceae,” *Flora Mesoamericana, Rubiaceae a Verbenaceae*. 4(2): 51-52.

Himes, C., E. Carlson, R. J. Ricchiuti, **D. W. Taylor**, B. Otis, B. A. Parviz. 2010. "Using plants for directly powering nanoelectronic circuits," *Nanotechnology Perceptions* 6: 29-40.

Publications prior to arriving at the University of Portland:

- Qiu, Y.-L., L. Li, B. Wang, Z. Chen, O. Dombrovska, J. Lee, L. Kent, R. Li, R. W. Jobson, T. A. Hendry, **D. W. Taylor**, C. M. Testa, M. Ambros. 2007. "A non-flowering land plant phylogeny inferred from nucleotide sequences of seven chloroplast, mitochondrial and nuclear genes," *International Journal of Plant Sciences* 168(5): 691-708.
- Qiu, Y.-L., L. Li, B. Wang, Z. Chen, V. Knoop, M. Groth-Malonek, O. Dombrovska, J. Lee, L. Kent, J. Rest, G. F. Estabrook, T. A. Hendry, **D. W. Taylor**, C. M. Testa, M. Ambros, B. Crandall-Stotler, R. J. Duff, M. Stech, W. Frey, D. Quandt, C. C. Davis. 2006. "The deepest divergences in land plants inferred from phylogenomic evidence," *Proceedings of the National Academy of Sciences, USA* 103(42): 15511-15516.
- Qiu, Y.-L., L. Li, T. A. Hendry, R. Li, **D. W. Taylor**, M. J. Issa, A. J. Ronen, M. L. Vekaria, A. M. White. 2006. "Reconstructing the basal angiosperm phylogeny: evaluating information content of the mitochondrial genes," *Taxon* 55(4): 837-856.
- Lendl, A., I. Werner, S. Glasl, C. Kletter, P. Mucaji, A. Presser, G. Reznicek, J. Jurenitsch, **D.W. Taylor**. 2005. Phenolic and terpenoid compounds from *Chione venosa* (SW.) URBAN var. *venosa* (Bois Bande'). *Phytochemistry* 66: 2381–2387.
- D. W. Taylor**. 2003. "*Colleteria* D. W. Taylor (Rubiaceae), a new genus from the Caribbean," *Systematics and Geography of Plants* 73: 199-208.
- D. W. Taylor**. 2003. "A Taxonomic Revision of the Genus *Chione* (Rubiaceae)," *Systematics and Geography of Plants* 73: 171-198.

Presentations at Professional Meetings while at the University of Portland:

- Goldin, A. *, K. Klassen*, D. Salgado Huicochea*, A. Temple*, M. Thibado*, H. Worku*, **D. W. Taylor**. 2020. Sigma Xi and Oregon Academy of Science annual conference. Poster presentation, "Reproductive Biology of *Clerodendrum trichotomum*, a non-native ornamental shrub in Portland, OR", Portland, OR. *= **University of Portland undergraduate students**
- D. W. Taylor**. 2019. BOTANY 2019 Conference. Poster presentation, "Reproduction of fungal endophyte in anthers of *Stigmaphyllon* subgenus *Ryssopterys* (Malpighiaceae)", Tucson, Arizona.
- D. W. Taylor**. 2019. BOTANY 2019 Conference. Poster presentation, "The sexual system of *Stigmaphyllon* subgenus *Ryssopterys* (Malpighiaceae)", Tucson, Arizona.
- D. W. Taylor**. 2018. International Congress of Ethnobotany. Oral presentation, "Caribbean crops and conservation in migrant communities." Belem, Brazil.
- D. W. Taylor**. 2017. International Botanical Congress. Oral presentation, "Crops of migrant communities", Shenzhen, China.
- D. W. Taylor**. 2017. International Botanical Congress. Poster presentation, "Cryptic dioecy in *Stigmaphyllon* subgenus *Ryssopterys* (Malpighiaceae)", Shenzhen, China.
- D. W. Taylor**. 2017. International Botanical Congress. Poster presentation, "Report of fungal endophyte in anthers of *Stigmaphyllon* subgenus *Ryssopterys* (Malpighiaceae)", Shenzhen, China.
- Capers, R.S. and **D. W. Taylor**. 2013. Northeast Natural History Conference. Oral presentation (given by R.S. Capers), "Recovery of an alpine plant community four years after a major disturbance." Springfield, MA.
- D. W. Taylor** and V. Duong. 2012. Society of Ethnobiology Conference. Oral presentation, "Cultural Keystone Plant Usage Groups and Conservation of Culinary Customs: Examples from Puerto Rico and Vietnam." Denver, CO.
- D. W. Taylor** and V. Duong. 2011. Botany Annual Conference. Oral presentation, "Our Daily Soup: Variability in Vietnamese Plant Utilization in Canh." St. Louis, MO.
- D. W. Taylor** and V. Duong. 2011. Society of Ethnobiology Conference. Poster presentation, "Our Daily Soup: Variability in Vietnamese Plant Utilization in Canh." Columbus, OH.
- D. W. Taylor**. 2010. Botany Annual Conference. Oral presentation, "Cultural Persistence Over Time and Space: Viandas in the Diet of the Puerto Rican Community of Hartford, CT, and Botanical

Teaching Opportunities." Providence, RI.

- D. W. Taylor.** 2010. Society of Ethnobiology Conference. Oral presentation, "Taking a Little Bit of Home Along: 'Viandas' (Starchy Crops) in the Diet of the Puerto Rican Population of Hartford, CT (U.S.A.)." Victoria, BC, Canada.

Presentations at Professional Meetings prior to arriving at the University of Portland:

- D. W. Taylor.** 2002. Global Partners/GLCA East Africa Seminar, "East Africa in Transition: Economics, Ethnicity, and Ecology,". Oral presentation, "Crops of migrating communities." University of Nairobi, Kenya.
- D. W. Taylor.** 2001. Botany Annual Conference. Oral presentation, "Systematics and Phylogeny of *Chione* DC (Rubiaceae)." Albuquerque, NM.
- D. W. Taylor.** 1999. XVI International Botanical Congress. Poster presentation, "A Taxonomic Revision and Biogeographical Analysis of the Genus *Chione* DC. (Rubiaceae)." Saint Louis, MO.

Invited Talks while at the University of Portland:

- D. W. Taylor.** 2019. "Biology and history of cacao." Taipei, National Taiwan University, Institute of Ecology and Evolutionary Biology, Plant Systematics course.
- D. W. Taylor.** 2018. "Biology of spice plants" and "Biology and history of cacao." Taipei, National Taiwan University, Institute of Ecology and Evolutionary Biology, Plant Systematics course.
- D. W. Taylor.** 2017. "Advances in studies of *Stigmaphyllon* (Malpighiaceae) reproductive biology." Guangxi Botanic Institute, Guilin, China.
- D. W. Taylor.** 2016. "Conservation of crop plant utilization in U.S. immigrant/migrant communities." Taipei, National Taiwan University, Institute of Ecology and Evolutionary Biology Seminar.
- D. W. Taylor.** 2016. "Biology of plants used as sources of sugar." Taipei, National Taiwan University, Institute of Ecology and Evolutionary Biology, Plant Systematics course.
- D. W. Taylor.** 2014. "Cultural Keystone Food Groups and Culinary Cultural Conservation in the Hartford Puerto Rican Community." University of Connecticut, Department of Ecology and Evolutionary Biology, Plants in a Changing World course.

Invited Talks prior to arriving at the University of Portland:

- D. W. Taylor.** 2009. "A Festival of 'Viandas': The Diversity and Importance of Starchy Food Crops in Hartford Puerto Rican Cuisine." Central Connecticut State University, Biology Department Seminar.
- D. W. Taylor.** 2007. "Evolution and Ecology of *Chione* DC (Rubiaceae) and Leaf-Mite Mutualisms." Taipei, National Taiwan University, Institute of Ecology and Evolutionary Biology Seminar.

Grants while at the University of Portland:

- Applied:** Spring 2024 University of Portland Butine Grant (\$2,000), Registration and Travel Expenses for the XX International Botanical Congress, Madrid, Spain, July 21-27, 2024.
- Funded:** Fall 2023 University of Portland Butine Grant (\$4,880), Taxonomy and Biogeography of Taiwanese *Mussaenda* (Rubiaceae), a genus of ecologically important woody vines.
- Funded:** Spring 2021 University of Portland Butine Grant (\$350), Registration for Botany 2021 on-line conference.
- Funded:** Fall 2019 University of Portland Butine Grant (\$5,000), Plant-Pollinator Interactions and Reproductive Isolation in the Taiwanese Endemic species of *Mussaenda* (family Rubiaceae).
- Funded:** Fall 2018 University of Portland Butine Grant (\$5,000), A Comparative Study of Sexual Systems in *Mussaenda taihokuensis* and *Mussaenda formosana* (Rubiaceae).
- Funded:** Fall 2017 Guangxi Botanic Institute (Guilin, China) Visiting Scholar Funding (approximately \$5,000), Travel Funds for giving invited talk and carrying out botanical exploration with local botanical colleagues in southern China.
- Funded:** Spring 2017 University of Portland Butine Grant (\$2,000), Conference Travel Funds for International Botanical Congress, Summer 2017, China.
- Submitted, not funded:** Fall 2016 Franklin Research Grant, The American Philosophical Society (\$10,000), "The Reproductive Biology of *Stigmaphyllon* subgenus *Ryssopterys*, a Group of

Tropical Woody Vines.”

Funded: Fall 2015 University of Portland Butine Grant (\$4,994), “The Reproductive Biology of *Stigmaphyllon* subgenus *Ryssopterys*, a Group of Tropical Woody Vines.”

Funded: Three-year (2014-2016) Research Grant (\$30,000) from Myra Camille Holland Foundation for Riparian Restoration Research and Monitoring on the University of Portland River Campus (proposed with Andrew Keippela, UP Development Office) to fund student summer research. Two Senior Biology majors carried out this research in Summer 2014 and Summer 2015, and two more Biology majors will continue this work in Summer 2016.

Funded: 2014 University of Portland CISGO Faculty Seed Grant (\$500), to carry out ethnobotanical project “A Comparison of Food Crop Diversity and Utilization among Portland-area Asian and Latino Immigrant Communities” with UP students with the goal of internationalizing their education. Seven Biology majors worked with me on this research in 2014.

Funded: Spring 2011 University of Portland Butine Grant (\$1,500), Conference Travel Funds for Society of Ethnobiology conference, Summer 2011, Columbus, Ohio.

University Awards and Fellowships prior to arriving at the University of Portland:

Northwestern University

Faculty Fellow of the Year Award, International Studies Residential College 2006 - 2007.

University of Michigan

Matthaei Botanical Gardens Research Award, 1998-2000.

Herbarium Assistantship/Fellowship, Herbarium, Spring 1997, Summer 1997, 1999, and 2000.

Travel Grant, Horace H. Rackham School of Graduate Studies, 1999.

Block Grant Award, Department of Biology, Spring 1997. Emma J. Cole Fellowship, Department of Biology, Spring 1996.

Research and Travel Grant, Horace H. Rackham School of Graduate Studies, Winter 1996.

Summer Research Study Grant, Latin American/Caribbean Studies Center, 1995 and 1996.

University of Connecticut

Botanical Society of America's Young Botanist Recognition Award, 1994.

Ecology and Evolutionary Biology Award, 1994.

Babbidge Honor Scholar Award, 1993.

New England Scholar Award, 1993.

University Scholar Award (highest ranked academic award conferred at this institution), 1991.

Membership in Professional and Honor Societies:

Professional

American Society of Plant Taxonomists, Botanical Society of America, International Society of Ethnobiology, Society for Economic Botany, Society of Ethnobiology, Native Plant Society of Oregon, Washington Native Plant Society, Council for Undergraduate Research.

Honor

Phi Beta Kappa, Phi Kappa Phi.