

Ana Flores

School of Life Sciences, University of Hawai'i at Mānoa, Honolulu, HI

Email: flores29@hawaii.edu / anaifrs@gmail.com

Website: anaifrs.github.io

EDUCATION

- May 2025 (projected) Ph.D. Program in Botany (post-candidacy)
Graduate specialization in Ecology, Evolution, and Conservation Biology
School of Life Sciences, University of Hawai'i at Manoa, Honolulu, HI
Advisor: Dr. Kasey Barton, Associate Professor, School of Life Sciences
Dissertation title (tent.): *Exploring Phenotypic Plasticity and The Fitness Consequences of Ontogenetic Trajectories of Plant Functional Traits*
- Jul 2022 Graduate Program in Tropical Biology: An Ecological Approach
Organization of Tropical Studies, Costa Rica
- Dec 2018 B.Sc. in Biological Sciences
Florida International University, Miami, FL
Advisor: Dr. Jennifer Richards, Professor Emerita, Department of Biological Sciences

RESEARCH EXPERIENCE

- May 2018 – Aug 2019 Research Assistant, GIS and Remote Sensing Center
Florida International University, Miami, FL
PI(s): Dr. Jennifer Richards, Dr. Daniel Gann
- Jan – Apr 2018 Research Intern, Richards Macrophyte Lab
Florida International University, Miami, FL
Advisor: Dr. Jennifer Richards
- Nov 2017 – Aug 2019 Research Assistant, Richards Macrophyte Lab
Florida International University, Miami, FL
Advisor: Dr. Jennifer Richards
Grad student mentor: PhD candidate Nicole Sebesta
- Jun 2017 – Aug 2017 Research Intern, NSF Research Experience for Undergraduates
Chicago Botanic Garden, Glencoe, IL
Advisors: Dr. Andrea Kramer, Dr. Jeremie Fant, Christopher Woolridge, M.S.
Supported by NSF REU Grant DBI-1461007
- Jan 2017 – May 2017 Undergraduate Research Assistant, Conservation Genetics Lab
Florida International University, Miami, FL
Advisor: Dr. Eric von Wettberg

PUBLICATIONS

- Woolridge, C.B., Fant, J.B., **Flores, A.I.**, Schultz, K. and Kramer, A.T. (2023), Variation in overall fitness due to seed source: projections for predictive provenancing. *Restor Ecol*, 31: e13717. <https://doi.org/10.1111/rec.13717>

Barton, K. E., Carpenter, J., **Flores, A.**, Saez, L., Armani, M. (2024). Spinescence and the Island Plant Syndrome. In Moreira, X., and Abdala-Roberts, L. (Eds.), Ecology and evolution of plant-herbivore interactions on islands. Springer.

PRESENTATIONS

Oral

- Aug 2024 **Flores, A.**, Barton, K.; Early ontogenetic variation in a heteroblastic island endemic. ESA 2024, Long Beach, California (Ecological Society of America Annual Meeting)
- Mar 2024 **Flores, A.**; Drought response across development in Hawaii's endemic prickly poppy. Hawai'i Experimental Tropical Forest Webinar Series, Institute of Pacific Islands Forestry, Hilo, HI
- Dec 2022 **Flores, A.**; Profile of a successful invader: Old World Climbing Fern (*Lygodium microphyllum*). Plant of the Month feature, Hawai'i Botanical Society quarterly meeting, Honolulu, HI
- Jul 2022 **Flores, A.**, Barton, K.; Trait variation as plants grow up: Simultaneous effects of ontogeny and phenotypic plasticity. Botany 2022, Anchorage, Alaska (Botanical Society of America Annual Meeting), University of Hawai'i at Mānoa, Honolulu, HI
- Apr 2022 **Flores, A.**, Barton, K.; Trait variation as plants grow up: Simultaneous effects of ontogeny and phenotypic plasticity. 46th Albert L. Tester Research Symposium, University of Hawai'i at Mānoa, Honolulu, HI
- Flores, A.**, Barton, K.; Phenotypic Plasticity in Ontogenetic Trajectories of Plant Functional Traits. EECB (Ecology, Evolution, and Conservation Biology) EvoLuncheon Seminar Series
- Aug 2021 **Flores, A.**, Barton, K.; The role of phenotypic plasticity in the ontogenetic trajectories of plant functional traits.; ESA 2021 Virtual (Ecological Society of America Annual Meeting)
- Jul 2021 **Flores, A.**, Barton, K.; The role of phenotypic plasticity in the ontogenetic trajectories of plant functional traits. Botany 2021 Virtual (Botanical Society of America Annual Meeting)

Posters

- Apr 2018 **Flores, A.**, Richards, J. H.; What Lies Beneath: Exploring Soil Distribution in Florida Everglades REMAP Collection Sites; GIS Day 2018, Florida International University and the Geographic Information Systems & Remote Sensing Center, Miami, FL
- Aug 2017 **Flores, A.**, Woolridge, C., Kramer, A., Fant, J.; Does the frost tolerance of *Chamaecrista fasciculata* seedlings differ along a regional gradient in the Midwest?; Southeastern Ecology and Evolution Conference (SEEC), Fort Myers, FL
- Flores, A.**, Woolridge, C., Kramer, A., Fant, J.; Does the frost tolerance of *Chamaecrista fasciculata* seedlings differ along a regional gradient in the Midwest?; REU Research Symposium, Chicago Botanic Garden, Glencoe, IL

TEACHING EXPERIENCE

- January 2024 Teaching Assistant, Marine Ecology & Evolution (BIO301L)
Prof: Peter Marko
School of Life Sciences, University of Hawai'i at Mānoa
- Aug 2019 – Present Teaching Assistant, Plant Form and Function (BOT420)
Spring semesters only; Prof: Dr. Kasey Barton
School of Life Sciences, University of Hawai'i at Mānoa
- Aug 2020 – Present Teaching Assistant, Plants, People, and Culture (BOT107)
Fall semesters only; Prof: Dr. Anthony Amend (2020), Dr. George Wong (2021), Dr. Mark Merlin (2022, 2023)
School of Life Sciences, University of Hawai'i at Mānoa

Aug – Dec 2019 Teaching Assistant, Ecology (BOT305)
Prof: Dr. Kasey Barton
Resource Management and Conservation Biology (BOT350)
Inst: Tina Lau, M.S.
School of Life Sciences, University of Hawai'i at Mānoa

MENTORSHIP & OUTREACH

March 2024 Hawai'i Experimental Tropical Forest Webinar Series, "Drought response across development in Hawaii's endemic Pricky Poppy, Pua kala
Jul 2023 Junior Botanist: Plant Exploration, Liliha Public Library Summer Reading Program, Honolulu, HI
2022 PLANTS mentor, Botany 2022, Anchorage, AK – Undergraduate Cesar Avila
2021 PLANTS mentor, Botany 2021 – Undergraduate Al Lichamer
2020 – Pres Liaison and Mentor, Planting Science, Botanical Society of America – High School and Middle School student groups
2017 College First Mentor – Plant Ecology and Conservation REU Program – High School student Kyrel McDavid

SYNERGISTIC ACTIVITIES & LEADERSHIP ROLES

Jun 2024 Panelist, Belonging in Botany: Perspectives on Success in the Botanical Sciences, Botany 2024, Grand Rapids, Michigan (Botanical Society of America Annual Meeting)
2023 – 2024 Organizer/Presenter, Teaching a Science Lab Workshop, Teaching Assistant Training, University of Hawai'i at Mānoa
2023 Organizer, 47th Albert L. Tester Research Symposium, School of Life Sciences, University of Hawai'i at Mānoa
2022 Member, Social Events Subcommittee, 46th Albert L. Tester Research Symposium, School of Life Sciences, University of Hawai'i at Mānoa
2022 – Present Member, Early Career Advisory Board, Botanical Society of America
2021 Outreach Coordinator, BSA Hawai'i Student Chapter, University of Hawai'i at Mānoa
2021 – Present Graduate Student Representative, Ecology, Evolution, and Conservation Biology (EECB) Graduate Specialization Program, University of Hawai'i at Mānoa

PROFESSIONAL AFFILIATIONS

- Hawai'i Botanical Society (Since 2021)
- Society for the Study of Evolution (SEE) (Since 2021)
- Botanical Society of America Hawai'i Student Chapter (Since 2021)
- Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) (Since 2020)
- Ecological Society of America (ESA) (Since 2018)
- Botanical Society of America (BSA) (Since 2017)