

ELIZABETH MAKINGS
CURRICULUM VITAE

Arizona State University Herbarium (ASU)
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PROFESSIONAL STATEMENT: I am a botanist with expertise in the flora of the North American Southwest and over 25 years of curatorial experience in natural history collections. I have a deep appreciation and love for the plant world, which never ceases to inspire me. I am particularly interested in the diversity, distribution, and evolutionary history of plants, and applying this knowledge in teaching, conservation, and outreach. As a curator and educator, I am fortunate to be able to share my passion for plants with students and fellow life-long learners.

APPOINTMENTS

2004-present, Vascular Plant Herbarium Collections Manager, School of Life Sciences, Arizona State University, Tempe, Arizona.

2004-2010, Botanist, Terrestrial Ecological Unit Inventory, Southwestern Region 3, United States Forest Service, Phoenix, Arizona.

EDUCATION

M.S., Plant Biology, Arizona State University, 2003. Thesis: Flora and Vegetation of the San Pedro Riparian National Conservation Area, Cochise County, Arizona.

B.A., Environmental, Population, and Organismal Biology, University of Colorado-Boulder, 1988.

INSTRUCTOR at ASU

Sonoran Desert Field Botany
Grasses of Arizona
Flora of Arizona

AUTHORED BOOKS

Brown, D.E. and E. **Makings**. 2014. A Guide to North American Grasslands. *Desert Plants* Vol. 29(2):160 pp.
https://biokic.asu.edu/sites/g/files/litvpz936/files/2024-01/desert_plants_vol29-2_nagraslands-_brown_makings.pdf

SELECTED JOURNAL ARTICLES

Rothfels, C. J., J. Lee, M. A. Sundue, A. R. Smith, A. Kasameyer, J. Gross, G. Holman, et al. 2025. The PteridoPortal: A publicly accessible collection of over three million records of extant and extinct pteridophytes. *Applications in Plant Sciences* 13: e70003. <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/aps3.70003>

Moubset, O., D. Filloux, H. Fontes, C. Julian, E. Fernandez, S. Galzi, L. Blondin, S. B. Chehida, J. Lett, F. Mesleard, S. Kraberger, J. M. Custer, A. Salywon, E. **Makings**, A. Marais, F. Chiroleu, P. Lefeuvre, D.P. Martin, T. Candresse, A. Varsani, V. Ravigné, and P. Roumagnac. 2024. Virome release of an invasive exotic plant species in southern France. *Virus Evolution* 10(1):50 pp.
<https://academic.oup.com/ve/advance-article/doi/10.1093/ve/veae025/7624785>

- Yue M. Li, J. R. Simms, T. Condo, D. Wolkis, R. Wang, A. Hatch, E. **Makings**, S. Blackwell, M. Mayer. 2023. Population dynamics and life history of the endangered cienega endemic *Eryngium sparganophyllum* in Arizona. *Journal of Arid Environments*. 2014: 1-13. <https://doi.org/10.1016/j.jaridenv.2023.104984>
- Wright, E. R., E. **Makings**, and M. A. Johnston. 2023. Notes on the feeding and behavior of *Tegrodera aloga* Skinner, 1902 (Coleoptera: Meloidae). *The Pan Pacific Entomologist* 99(1):81-86. <https://doi.org/10.3956/2022-99.1.81>
- Carnahan, S.D., E. **Makings**, and J.D. Morefield. 2022. First report of *Lasiopogon glomerulatus* for Arizona, USA, and northern and western hemispheres. *Phytoneuron* 2022-34: 1-7. <https://www.phytoneuron.net/wp-content/uploads/2022/04/34PhytoN-LasiopogonArizona.pdf>
- Currier, C. M. and E. **Makings**. 2021. Solanaceae Part Seven: *Browallia* L. and *Salpichroa* Miers. *Canotia* 17: 46-60. <https://canotia.org/volume17.php>
- Stromberg, J. C., E. **Makings**, D. E. Brown, and D. Wolkis. 2020. Conservation of the cienega endemic, *Eryngium sparganophyllum* Hemsl. (Apiaceae). *Southwestern Naturalist* 65(2):173-184. <https://doi.org/10.1894/0038-4909-65.2.173>.
- *Winner of the Southwestern Association of Naturalists George Miksch Sutton Award in Conversation Research (2023).
- Makings**, E., T. R. Van Devender, A. L. Reina-Guerrero, and S. F. Hale. 2018. A Preliminary Flora of the Sierra Juriquipa, Sonora, Mexico. *Arizona Native Plant Society: The Plant Press* 41(2): 33-40. <https://aznps.com/PlantPress/2018.12.PP.pdf#page=33>
- Makings**, E., J. P. Selves. 2018. Vascular Plants of Arizona: Solanaceae Part Six: *Nicotiana* L. Tobacco. *Canotia* 14: 54-62. https://canotia.org/volumes/vol14/Canotia14-8_Solanaceae-Nicotiana.pdf
- Makings**, E. 2018. In Memoriam: Donald J. Pinkava (29 Aug 1933–25 Jul 2017). *Journal of the Botanical Research Institute of Texas* 12(1): 377-385.
- McNair, D. M., J. Fox, R. Lindley, S. D. Carnahan, M. E. Taylor, and E. **Makings**. 2018. Identifying *Abutilon parishii* (Malvaceae) and similar species in Arizona and Sonora. *Phytoneuron* 84:1-12. <https://www.phytoneuron.net/2018Phytoneuron/84PhytoN-AbutilonIDs.pdf>
- Brown, D.E., E. **Makings**, A. Neils, D. Jenness, R. L. Glinski, R. D. Babb, M. B. Traphagen. 2017. Biotic Resources of the Lower Santa Cruz River Flats, Pinal County, Arizona. *Desert Plants* 32(2):51 pp.
- Darrow, K. and E. **Makings**. 2016. New Records for the Flora of Arizona: *Hydrocotyle umbellata* (Araliaceae), *Bryophyllum daigremontianum* (Crassulaceae), *Malvastrum coromandelianum* (Malvaceae). *Canotia* 12:86-89. <https://canotia.org/volumes/Canotia12-NewRecords-Darrow-Makings8-13-16.pdf>
- Stromberg, J. C., E. **Makings**, A. Eyden, R. Madera, J. Samsky III, F. Coburn, and B. Scott. 2016. Provincial and cosmopolitan: floristic composition of a dryland urban river. *Urban Ecosystems* 19:429-453. <https://link.springer.com/article/10.1007/s11252-015-0482-4>

Bateman, H. L., J. C. Stromberg, M. J. Banville, E. **Makings**, B. D. Scott, A. Suchy and D. Wolkis 2015. Novel water sources restore plant and animal communities along an urban river. *Ecohydrology* 8:792–811.

<https://doi.org/10.1002/eco.1560>

Makings, E. 2013. Vegetation and Flora of the St. David and Lewis Springs Cienegas, Cochise County, Arizona. In L. Collins, L. Eskew, J. Gottfried, et al., technical coordinators, *Biodiversity and management of the Madrean Archipelago III: Merging Science and Management in a Rapidly Changing World*. Tucson, AZ. Gen. Tech Rep. RM-GTR Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. https://www.fs.usda.gov/rm/pubs/rmrs_p067/rmrs_p067_071_076.pdf

Makings, E., L. Butler, and M. Chew, J. C. Stromberg. 2011. ‘Found then Drowned’ Noteworthy Collections from Tempe Towne Lake Riverbed. *Desert Plants* 27(1):3-10.

Allred, K., E. **Makings**. 2010. Plant Distribution Reports, *Hackelochloa granularis*. *New Mexico Botanist* 51:3.

Bates, S. T., F. Farruggia, E. Gilbert, R. Gutierrez, D. Jenke, E. **Makings**, E. Manton, D. Newton, and L. R. Landrum. 2009. Solanaceae, Potato Family, Part Two: key to the genera and *Solanum* L. *Canotia* 5:1-16.

https://canotia.org/volumes/CANOTIA_2009_Vol5_1_Bates_et_al_Solanaceae2_Solanum.pdf

Makings, E. 2009. Elinor Lehto, Arizona Botanist 1915-2009. *Canotia* 5:53-55.

https://canotia.org/volumes/CANOTIA_2009_Vol5_1_Makings_Remembrance_Elinor_Lehto.pdf

Makings, E. 2006. Flora of the San Pedro Riparian National Conservation Area. *Desert Plants* 22(2): 104 pp.

https://www.researchgate.net/publication/34010886_Flora_of_the_San_Pedro_Riparian_National_Conservation_Area_Cochise_County_Arizona

Daniel, T. F., E. **Makings**, M. Chamberlain. 2005. Additions to the Acanthaceae of Arizona. *Proceedings of the California Academy of Sciences* 56:88-90.

Stromberg J. C., K. J. Bagstad, J. Leenhouts, S. J. Lite, E. **Makings**. 2005. Effects of stream flow intermittency on riparian vegetation of a semiarid region river (San Pedro River, Arizona). *River Research and Applications* 21:925-938. <https://doi.org/10.1002/rra.858>

Makings, E. 2002. Noteworthy collections, Arizona: *Mancoa pubens* (Brassicaceae) *Madrono* 49(2):132-133.

CONTRIBUTED CHAPTERS

Stromberg, J. C., K. Bagstad, E. Makings. 2009. Floristic Diversity (of the San Pedro River), pp. 89-104. In Stromberg, J. C. and B. Tellmann: *Ecology and Conservation of the San Pedro River*. The University of Arizona Press. 529 pp.

PUBLISHED REVIEWS

Makings, E. 2010. Review of “Field Guide to Forest and Mountain Plants of Northern Arizona” by J.D. Springer, M. L. Daniels, and M. Nazaire with forward by Bruce Babbitt. *Canotia* 6: 44-46.

Makings, E. and J. C. Stromberg. 2003. Review of D. S. Correll and H. B. Correll, “Aquatic and Wetland Plants of Southwestern United States.” *Native Plants Journal*.

AD-HOC MANUSCRIPT REVIEWS

Canotia

SELECTED ORAL PRESENTATIONS

“The San Pedro Riparian National Conservation Area: flora revisited.” Arizona Botanists Meeting invited speaker, field trip leader. Jul 28 & 29, 2019, Sierra Vista, Arizona.

“Flora of the Sierra Juriquipa, Sonora, Mexico.” Biodiversity and Management of the Madrean Archipelago IV. May 14- 18, 2018, Tucson, Arizona.

“A Perspective on the flora and vegetation of the Lower Santa Cruz River Flats.” October meeting for the Pinal County Open Spaces Committee. Oct 2, 2017, Florence, Arizona.

“A Perspective on the flora and vegetation of the Lower Santa Cruz River Flats.” Eighth annual Santa Cruz River Research Days. Mar 31, 2016, Tucson, Arizona.

“*Eryngium sparganophyllum* - Arizona eryngo, a rare cienega plant from southeastern Arizona and Mexico.” Arizona Native Plants Society. Feb 10, 2015, Phoenix, Arizona.

“The Salt River Flora, Then and Now.” Arizona Native Plants Society. Feb 11, 2014, Phoenix, Arizona.

“Found Then Drowned, Noteworthy Collections from Tempe Towne Lake.” Arizona Botanists Meeting. Feb 11-12, 2011, Phoenix, Arizona.

“Flora of the Valles Caldera National Preserve, New Mexico.” Arizona Native Plant Society. Apr 11, 2008, Phoenix, Arizona.

“Flora of the San Pedro Riparian National Conservation Area.” Arizona Native Plant Society. Desert Botanical Garden, Nov 11, 2005, Phoenix, Arizona.

“Flora of the San Pedro Riparian National Conservation Area.” Biodiversity and Management of the Madrean Archipelago II. May 11- 15, 2004, Tucson, Arizona.

SELECTED POSTER PRESENTATIONS

“The Arizona State University Vascular Plant Herbarium.” Makings, E. Arizona Native Plant Society Annual Meeting. Aug 17-18, 2024, Tucson, AZ.

“Combining Art and Ecology to Understand Changing Biotic Communities of the Urban Salt River.” Ramsey-Wiegmann, L. D., D. L. Childers, E. Makings, H. Bateman, H. Green. CAP LTER All Scientists Meeting. Jan 12, 2024, Tempe, AZ.

“Virome release of an invasive exotic plant species in Southern France.” Moubset, O., D. Filloux, V. Ravigné, H. Fontes, C. Julian, E. Fernandez, L. Claude, F. Chiroleu, F. Mesleard, S. Kraberger, J. Custer, A. Salywon, E. Makings, D. P. Martin, A. Varsani, and P. Roumagnac. Fifteenth International Symposium of Plant Virus Epidemiology. Jun 5-8, 2022, Madrid, Spain.

“Freshwater Restoration in a Changing Climate: Preliminary Findings from Santa Cruz Watershed Cienegas.” Wolkis, D., J. C. Stromberg, E. Makings. Arizona Botanists Meeting. Feb 22, 2014, Phoenix, Arizona.

“Beyond cottonwoods: floristic restoration in an urban floodplain.” Stromberg, J. C., D. Wolkis, B. Scott, E. Makings. 26th Meeting of the Arizona Riparian Council. Apr 4-6, 2013, Scottsdale, Arizona.

“Just add water: benefits of serendipitous restoration in an urban floodplain.” Stromberg, J. C., H. Bateman, J. Foltz-Sweat, D. Wolkis, E. Makings, B. Scott, A. Suchy, N. Wilson. CAP-LTER Fifteenth Annual All Scientists Meeting. Jan 11, 2013, Scottsdale, Arizona.

“Species diversity in restored and unrestored reaches of the urbanized Salt River.” Stromberg, J. C., H. Bateman, J. Foltz-Sweat, E. Makings, B. Scott, A. Suchy, D. Wolkis. Arizona Hydrological Society. Sep 17-20, 2012, Phoenix, Arizona.

“Plant and animal diversity in accidentally and intentionally restored reaches along the urbanized Salt River in central Arizona.” Bateman, H., A. Bridges, E. Makings, B. Scott, J. C. Stromberg, A. Suchy, D. Wolkis. Long Term Ecological Research Network, All Scientist’s Meeting. Sep 10-13, 2012, Estes Park, Colorado.

“Found Then Drowned, Noteworthy Collections from Tempe Towne Lake.” Makings, E. Botanical Society of America. Jul 9-13, 2011, St. Louis, Missouri.

“Desertlands of North America.” Brown, D. E., & E. Makings. Dynamic Deserts Conference, Arizona State University. Feb 26-28, 2009, Tempe, Arizona.

“Grasses of the San Pedro.” Makings, E. Arizona Native Plant Society. Oct 2005, Phoenix, Arizona.

“Gradient Analysis of Soil, Vegetation and Climate on the Tonto National Forest.” Robertson, G. & E. Makings. West Regional Cooperative Soil Survey Conference. Jun 19-23, 2006, Park City, Utah.

“Flora of the San Pedro Riparian National Conservation Area.” Makings, E. Ecological Society of America, 87th annual meeting. Aug 4-9, 2002, Tucson, Arizona.

ARTICLES

“Arizona wildflowers: Where are the best blooms?” Arizona Republic. Mar 20, 2025
<https://www.azcentral.com/story/travel/arizona/2025/03/20/where-to-see-wildflowers-in-arizona-2025/82406909007/>

“Grasses: An ecological perspective.” *The Plant Press* (Arizona Native Plant Society) 45 (2): pp 25-27. 2022.
<https://aznps.com/wp-content/uploads/anps-22ii-webfinal.pdf#page=25>

“The Arizona State University Herbarium” in “The Herbarium, a Priceless Resource for Botanical Documentation, Research, and Understanding.” *The Plant Press* (Arizona Native Plant Society) 37(1): 3-6. 2014.
https://aznps.com/wp-content/uploads/2014.06.PP_.pdf#page=4

“Asclepias in Arizona.” Arizona Riparian Council Newsletter, May 2013.

“Found Then Drowned, Three Noteworthy Collections from Tempe Town Lake.” *The Plant Press* 35(1):14-15. 2011. https://aznps.com/wp-content/uploads/2011.09.PP_.pdf#page=14

SELECTED OUTREACH

- Tanque Verde High School, Women in Science Club, Tucson, AZ. Invited speaker/Q & A, Jan 6, 2026.

- Friends of the San Pedro – Field trip leader. Sep 27, 2025, Sierra Vista, Arizona.
- Friends of the Huachucas – Field trip leader. Sep 28, 2025, Hereford, Arizona.
- The Player’s Tribune, video shoot in ASU Natural History Collections. Jun 17, 2025
<https://www.theplayerstribune.com/the-bug-gauntlet-cam-johnson-nba-basketball-denver-nuggets>
- “This Arizona botanist says non-native and invasive plants get a bad rap.” National Public Radio local KJZZ affiliate interview on “The Show.” Aired Jun 6, 2025.
<https://www.kjzz.org/the-show/2025-06-19/this-arizona-botanist-says-non-native-and-invasive-plants-get-a-bad-rap>
- Native Plant Society, Tonto Basin. Group hike leader, Bushnell Tanks, Tonto National Forest, Apr 2, 2025.
- “Art Under the Microscope” ASU Summer Camp at ASU Natural History Collections. Students aged 13-18 drawing, watercolor, collage, etc., inspired by herbarium, fossil, lichen, and mammal specimens. Jul 7-10, 2025; Jul 8-11, 2024; Jul 10-13, 2023; Jul 11-15, 2022.
- “What Does Phoenix’s Record Dry Monsoon Mean for Local Plants?” interview in The Copper Courier. Oct 6, 2023. <https://coppercourier.com/2023/10/06/phenix-record-dry-monsoon-plants/>
- OSHER Life Long Learner Institute at Arizona State University - Plant identification workshop. Sep 27, 2023.
- Diversity Equity and Inclusion (DEI) Scholars - planning, supervision, fieldwork, and mentoring under represented undergraduates in Natural History Collections. May 2- Jun 30, 2023; May-Jun 2022.
- Host for iDigBio mixer, Alameda Natural History Collections. Jun 5, 2023.
- ASU Staff Council Sustainability Committee, Campus plants tour. Apr 18, 2023.
- Arizona Federation of Garden Clubs – tour of collections and Grass family presentation and workshop. Apr 14, 2023.
- “A Spring Walk in the Sonoran Desert with Liz Makings.” Spur Cross Conservation Area, Maricopa County Parks and Recreation. Natural History Institute, Prescott, AZ. Mar 29, 2023.
<https://naturalhistoryinstitute.org/event/a-spring-walk-in-the-sonoran-desert-with-liz-makings-2/29-March-2023>
- Desert Humanities “Listening to the Land: Engaging with the Desert Landscape.” Papago Park, field trip co-leader. Mar 18, 2023.
<https://www.eventbrite.com/e/listening-to-land-engaging-with-the-desert-landscape-tickets-430010853037>
- Coyote Elementary 7th grade (~220 students) – interactive visit to ASU Natural History Collections. Feb 21, 2023.
- Dr. John Alcock Memorial. Invited speaker. Feb 20, 2023.
- The Coleopterists Bulletin – front cover featured photograph (*Moneilema gigas*: Cerambycidae). Sep 2022.
- “Designed to Move: Seeds That Float, Fly or Hitchhike through the Desert Southwest.” Exhibition using seeds and fruits from ASU collection – Scottsdale Civic Center Library Auditorium. Jul 7- 30, 2022.
<https://www.adelheidfischer.com/educator-landing/created-to-move>
- A Spring Walk in the Sonoran Desert with Liz Makings. Spur Cross Conservation Area, Maricopa County Parks and Recreation. Natural History Institute, Prescott, AZ. Mar 19, 2022.
- Central Arizona Chapter for the Society of Conservation Biology. ASU campus plants. Apr 15, 2021.
- Mirabella at ASU, Senior Living Residents – Campus plants tour. Mar 28, 2021.
- The Coleopterists Bulletin – front cover featured photograph (*Cypherotylus californicus*: Erotylidae). Sep 2020.
- Greatergood.org, Madrean Discovery Expeditions, Central Sonora Sky Islands. Botanical biodiversity surveys and collections. Summer 2017, 2018, 2019.
- Plant identification for capital murder case – Phoenix, PD, Yavapai County PD. 2019-2020

- “Vigneto: Yes or No?” Invited interviewee for Center for Biological Diversity film production. Jul 2019.
- Osher Lifelong Learning Institute at Arizona State University. “Botany For All: Learn Your Plants!” Sep 9 & 16, 2019.
- Botany workshop, Prescott College Center for Cultural and Ecological Studies, Kino Bay, Mexico. Mar 5-7, 2019.
- Site Steward, Mesquite Wash, Tonto National Forest, AZ State Parks Site Steward Program. 2013-present).
- East Valley Tribune interview “Tumbleweeds take shape in iconic Chandler Christmas tree.” Nov 27, 2017. https://www.eastvalleytribune.com/news/tumbleweeds-take-shape-in-iconic-chandler-christmas-tree/article_d8a392bc-d228-11e7-b51b-f7218ad4759f.html
- Central Arizona Butterfly Association, group leader, fall butterfly counts, Boyce-Thompson Arboretum. 2013 - present.
- McDowell Sonoran Preserve, group leader, bi-annual butterfly counts. 2013 - present.
- Wildflower walks and volunteer/staff wildflower identification training at Boyce Thompson Arboretum. Spring 2013, 2015, 2019.
- ASU School of Life Sciences, Night of the Open Door/Open Door (annual). <https://www.opendoor.asu.edu/>
- ASU School of Life Sciences: “Ask A Biologist,” Learning resource tool for K-12 teachers (ongoing).
- Prescott College botany students guest instructor. Sep 19, 2017.
- Donald J. Pinkava memorial. Jul 1, 2017.
- “The Nature of Creation, Joseph’s Hayden’s Oratorio and Beyond.” Plant fossil displays and 3D images for Hayden Library exhibit. Apr – Oct 2015. <https://news.asu.edu/content/creation-project-culminate-performance-haydns-masterpiece-asu-gammage>
- Grass Identification workshop, Plant Atlas Project of Arizona (PAPAZ). Seminar and field trip. Sep 19 & 20, 2015.
- Fossil Freeway Open House, ASU Natural History Collections Building, Sep 10, 2015.
- ASU School of Life Science: “ASU Explores Outdoors” Field trip leader for interpretive hikes in local natural areas. Spring 2013, 2014, 2015.
- Patten Herbal Collection - photo archive of 18th Century Herbals: Hanbury volumes. 2015.
- Botany class fieldtrips to ASU Rare Book Collections: Patten Herbal Collection. Spring 2015, 2017, 2019, 2023, 2024. <https://libguides.asu.edu/c.php?g=264014&p=1763022>
- SoLS Walking Club, interpretive hike of campus plants. Feb 2015.
- ASU Enterprise Marketing Hub - Field work and plant ID for desert plant wall photos in building remodel. 2015.
- Grass identification workshop, Arizona Native Plant Society. Sep 9-10, 2014.
- Guest instructor Canyon Ridge Elementary School 4th grade class. May 19, 2014.
- Tempe Historical Museum “Botany Day.” Jun 26, 2013.
- SEINet, on-line database tutorial for Forest Service Terrestrial Ecosystems Survey Team. Jun 4, 2013.
- Maricopa County Master Gardener’s plant identification workshop. May 10, 2013.
- Boy Scouts of America– desert plant identification field workshop at Phoenix South Mountain Park. Feb 23, 2013.
- ASU Campus plants digital database - Cooperative project with grounds crew identifying species on ASU campus. 2013.

GRADUATE MENTORING

Graduate/Honors degrees in progress

Brittany Burgard, MS

Arely Castillo, 4 +1 MS

Soon Flynn, PhD

Donna LaGuardia, MS
Noah Moon, Barrett Honor's College thesis
Daniel Moses, MS
Luke Ramsey-Weigmann, PhD
Annie Weaver-Bryant, PhD

Graduated

Zane Robertson, Jul 2024. The Genetic Identity of *Rumex orthoneurus*. MS
Kristen Countryman, Dec 2023. The Effects of Wildfire on the Sonoran Desert Seed Bank. MS
Luke Ramsey-Weigmann, May 2023. Accidental and Restored Wetlands of the Lower Salt River: A Portrait of Biodiversity and Community Composition Over a Decade of Urban Management. MS.
Bryce Sutter, May 2022. Structural Responses of *Bouteloua eriopoda* to Changes in Annual Precipitation: Interactive Effects of Amount and Duration. MS
Anthony Motta, May 2022. Nest Composition and Architecture of the Curve-billed Thrasher. MS
Zach Berry, May 2020. Flora of the Phoenix Zoo. MS.
Jean-Philippe Solves, May 2019. Chapter 1: A Preliminary Checklist of the Vascular Plants of Las Cienegas National Conservation Area. Chapter 2: New Insights into the Life History Traits of the Endangered Wetland Obligate *Lilaeopsis schaffneriana* subsp. *recurva* (Apiaceae). MS.
Cole Larson-Whittaker, May 2019. Flora of the Middle Verde River. MS.
Alison Willis, May 2019. Analysis of genetic diversity and clarification of species boundaries in *Echinomastus erectocentrus* var. *acunensis* and close relatives. MS.
Kara Baron, Dec 2018. Fire and reseeding effects on Arizona Upland plant community composition and a floristic inventory of Cave Creek Regional Park. MS.
Albatool Albedewi, Dec 2017. Developing a Virtual Flora Portal for Vascular Plants of Saudi Arabia. MS.
Danika Setaro, Dec 2016. A seed bank study of Southwestern riparian areas: temperature effects and diversity. MS.
Dustin Wolkis, May 2016. Plant Ecology of Arid-land Wetlands; a Watershed Moment for Ciénega Conservation. MS.
Frankie Coburn, Aug 2015. Flora of the Upper Verde River, Arizona. MS.
Lane Butler, Aug 2015. Ecological effects of stream flow permanence on butterfly and plant communities of Sonoran Desert streams. MS.
Doug Newton, Apr 2012. The vascular flora of the Eagletail Mountain Region. MS.
Darin Jenke, Apr 2011. The Phoenix Four Rivers Flora, Maricopa County, Arizona. MS.
Bethany Lester, Nov 2008. The vascular flora of the Hummingbird Springs Wilderness, Maricopa County, Arizona. MS.

UNDERGRADUATE, GRADUATE, ADULT VOLUNTEER, and K-12 MENTORING

Tabassum Tamima, Herbarium student worker 2026
Jana Shakarian, Herbarium student worker 2024, 2025
Colleen Burgess, Adult volunteer 2024, 2025
Harrison Healy, Barrett Honor's College thesis 2024
Rozetta Locksa, Herbarium intern 2024
Isabella Horton, Herbarium student worker 2023, 2024
Cameron Salas, Herbarium intern 2023, 2024
Marian Sarkis, Herbarium intern 2023
James Perry, Herbarium intern 2023
Alexandra Dubé, Herbarium intern 2023

Vanessa Gorlick, "Photography's Influence on Attitudes and Beliefs Toward Environmentalism and The Climate Conversation" Barrett Honor's College thesis, Apr 27, 2023.

Keri Inouye, Herbarium intern 2023

Alexander Fenlon, Herbarium intern 2023

Harrison Wickramasekera, Herbarium student worker 2022-2023

Luke Ramsey, Herbarium student worker 2022-2023

Kaidence Lewis-Quan, Herbarium student worker 2022-2023

Matthew Luna, Herbarium intern 2022

Kristi Spieleder, Herbarium intern 2022

Christopher Livingston, Herbarium intern 2022

Annessa Lyle, Herbarium intern 2022

Alice Sansonetti, Herbarium intern 2022

Alexander Fenlon, Herbarium intern 2022

Isabella Bernatt, Barrett Honor's College thesis "Botany on a Budget" Mar 16,2022.

Emma Knapp, undergraduate research 2021

Courtney Currier, Graduate research/Herbarium intern 2021, "Vascular Plants of Arizona: *Salpichroa* (Solanaceae) in Arizona." *Canotia* 17:46-49. https://canotia.org/volumes/vol17/3-Solanaceae_part7.pdf

Kristen Countryman, Herbarium intern 2021

Seth Wielgus, Herbarium intern 2021

Eric Lopez, Herbarium intern 2021

Ritvik Vallambhatla, Basis High School, Chandler, AZ. Herbarium intern (remotely) 2020

Elena Wegryn, Herbarium intern 2020

Isabella Bernat, Herbarium intern 2020

Eliem Smith, Herbarium intern 2020

Chrisovalantou Karakozis, Herbarium intern 2020

Kariah Slagel, Undergraduate research/Herbarium intern 2018 - 2019 "*Jaltomata* (Solanaceae)" *Canotia* 17: 55-56. https://canotia.org/volumes/vol17/3-Solanaceae_part7.pdf

Annie Wolf, Herbarium intern 2019-2020

Gabriel Garcia, Herbarium intern 2019-2020

Christian Parrinello, Undergraduate research 2019-2020

Sam Blevin, Herbarium intern 2019

Ana Kahn, Herbarium intern 2019

Chad Hauck, Honors Thesis, "The Diversity and History of the plants in the Alleyways of Tempe" 2018-2019.

Yasmine Parra, Undergraduate research, Digitizing the Cochise County Herbarium donation. 2018 – 2020.
Photographed and filed over 5,000 specimens.

Jonathon Maranville, Undergraduate research/Herbarium worker 2018 – 2019, "Capsicum L. (Solanaceae) in Arizona." *Canotia* 17:53-54. https://canotia.org/volumes/vol17/3-Solanaceae_part7.pdf/

Amariel DeMarchi, Herbarium intern 2018-2019

Cristina Port, Herbarium intern 2018-2019

Dena Bergman, Herbarium intern 2017

Victoria Canizales, Herbarium intern 2016-2017

Jean-Philippe Solves, Herbarium intern/Barrett Honor's College thesis, 2013-2018 "Solanaceae Part Six: Nicotiana L. Tobacco" *Canotia* 14:55-62. https://canotia.org/volumes/vol14/Canotia14-8_Solanaceae-Nicotiana.pdf

Alexandra Brunet-Giambalvo, Herbarium intern 2016-2017

Alexandra Votaw, Herbarium intern 2016

Linh Ngo, Herbarium intern 2014-2017

Lidia Peon, Herbarium intern 2014-2017

Valia Brannan, Herbarium intern 2014

Cris Brackenridge, Herbarium intern 2014
Anni Poetzl, Herbarium intern 2014- 2015
Aaron Boydston, Herbarium intern 2014- 2015
Alandon Joe, Herbarium intern 2014- 2015
Kara Barron, Herbarium intern/Barrett Honor's College thesis 2012
Katie Arrivas, Herbarium student worker 2011- 2013
Elizabeth Ochoa, Herbarium student worker 2011-2013
Robert Madera, Herbarium intern 2012- 2012
Darin Jenke, Herbarium intern 2007- 2008
Erin Manton, Barrett Honor's College thesis, "Flora of Escudilla Mountain, Apache County, AZ" 2007-2008
Emily Douglas, Herbarium intern 2008
Bianca Despotides, Herbarium intern 2007- 2008
Theresa Price, Herbarium intern 2004- 2005

PROFESSIONAL SOCIETIES

Society of Herbarium Curators
Arizona Native Plant Society
Arizona Riparian Council

MISCELLANEOUS

Ladies Professional Golf Association (LPGA) 1998, 1999
United States Women's Open Championship 1995, 1997, 1999 (Golf)
Big Eight Champion 1987 (Javelin)
University of Colorado - school record holder (Javelin)
High school All-American, Ft. Pierce Central HS, Ft. Pierce, FL. 1982 (Basketball)