

ELIZABETH MAKINGS

3931 E. Carson Road
Phoenix, Arizona 85042
Cell: 623/692-4405 Work: 480/965-6162
elizabeth.makings@asu.edu

PROFESSIONAL INTERESTS: I am a botanist with expertise in Southwestern floristics. I am particularly interested in the diversity, distribution, and evolutionary history of plants and applying this knowledge toward teaching, conservation, and outreach.

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

“Flora of Arizona”

“Sonoran Desert Field Botany”

“Grasses of Arizona”

AUTHORED BOOKS

Brown, D.E. and E. Makings. 2014. Grasslands of North America. *Desert Plants* Vol. 29(2):160 pp.

SELECTED JOURNAL ARTICLES

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 ciénega 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 alaga* Skinner, 1902 (Coleoptera: Meloidae). *The Pan Pacific Entomologist* 99(1):81-86.

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. Published 8 April 2022. ISSN 2153 733X. <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>
- Makings, E., 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.
- Makings, E., J. P. Soves. 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 August 1933–25 July 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* 2018-84:1-12.
- 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.S., 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.
- 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.
- 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.
- Makings, E., L. Butler, and M. Chew, J. 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):1-16. https://canotia.org/volumes/CANOTIA_2009_Vol5_1_Bates_et_al_Solanaceae2_Solanum.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.

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

CONTRIBUTED CHAPTERS

Stromberg, J., K. Bagstad, E. Makings. 2009. Floristic Diversity (of the San Pedro River), pp. 89-104. *In* Stromberg, J. 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* Vol. 6(1): 44-46.

Makings, E. and J. 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

Flora of North America

SELECTED ORAL PRESENTATIONS

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

"Flora of the Sierra Juriquipa, Sonora, Mexico" E. Makings. 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" E. Makings. October meeting for the Pinal County Open Spaces Committee, 2 October 2017, Florence, Arizona.

"A Perspective on the flora and vegetation of the Lower Santa Cruz River Flats" E. Makings and D. E. Brown. Eighth annual Santa Cruz River Research Days, March 31, 2016, Tucson, Arizona.

"*Eryngium sparganophyllum* - Arizona eryngo, a rare cienega plant from southeastern Arizona and Mexico" E. makings, D. Wolkis, S. Blackwell. Arizona Native Plants Society, February 10, 2015, Phoenix, Arizona.

"The Salt River Flora, Then and Now" E. Makings. Arizona Native Plants Society, February 11, 2014.

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

"Found Then Drowned, Noteworthy Collections from Tempe Towne Lake" E. Makings. Arizona Botanists, February 11-12, 2011. Phoenix, Arizona.

"Flora of the Valles Caldera National Preserve, New Mexico" E. Makings. Arizona Native Plant Society, April 11, 2008, Phoenix, Arizona.

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

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

"Flora of the San Pedro Riparian National Conservation Area" E. Makings. Forty-seventh annual Arizona-Nevada Academy of Science, March, 2002. Glendale, Arizona.

SELECTED POSTER PRESENTATIONS

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. 2022.

"Virome release of an invasive exotic plant species in Southern France." Fifteenth International Symposium of Plant Virus Epidemiology, June 5-8, 2022, Madrid, Spain.

"Freshwater Restoration in a Changing Climate: Preliminary Findings from Santa Cruz Watershed Cienegas" D. Wolkis, J. Stromberg, E. Makings. Arizona Botanists Meeting, February 22, 2014.

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

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

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

"Found Then Drowned, Noteworthy Collections from Tempe Towne Lake" E. Makings. Botanical Society of America. July 9-13, 2011. St. Louis, MO.

"Desertlands of North America," D. E. Brown and E. Makings. Dynamic Deserts Conference, Arizona State University, February 26-28, 2009. Tempe, Arizona.

"Grasses of the San Pedro" E. Makings. Arizona Native Plant Society, October 2005, Phoenix, Arizona.

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

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

ARTICLES

Plant Press Arizona (Arizona Native Plant Society). 2022. Vol 45 (2): pp 25-27. “Grasses: An ecological perspective.”

The Plant Press (Arizona Native Plant Society) 2014. “The Arizona State University Herbarium” in “The Herbarium, a Priceless Resource for Botanical Documentation, Research, and Understanding.” 37(1): 3-6.

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

The Plant Press 2011. “Found Then Drowned, Three Noteworthy Collections from Tempe Town Lake” 35(1):14-15

Canotia, 2009 “Elinor Lehto, Arizona Botanist 1915-2009” 5:53-55

SELECTED OUTREACH

- “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. July 10-13 2023; July 11-15, 2022.
- Diversity Equity and Inclusion (DEI) Scholars - planning, supervision, fieldwork, and mentoring under represented undergraduates in Natural History Collections. May 2- June 30, 2023; May-June 2022.
- 18 older herbarium cabinets replaced with 20 state of the art cabinets, 2022-2023.
- Host for iDigBio mixer, Alameda Natural History Collections patio, June 5, 2023
- ASU Staff Council Sustainability Committee, Campus plants tour, 18 April 2023.
- Arizona Federation of Garden Clubs – tour of collections and Grass family presentation and workshop, April 14, 2023.
- “A Spring Walk in the Sonoran Desert with Liz Makings.” Spur Cross Conservation Area, Maricopa County Parks and Recreation, 29 March 2023. Natural History Institute, Prescott, AZ. <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, March 18, 2023. <https://www.eventbrite.com/e/listening-to-land-engaging-with-the-desert-landscape-tickets-430010853037>
- Coyote Elementary 7th grade (two busloads of students) – interactive visit to Alameda Collections, Feb 21, 2023.
- Dr. John Alcock Memorial, invited speaker – Feb 20, 2023.

- “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. July 7-30, Sept 2022.
- A Spring Walk in the Sonoran Desert with Liz Makings. Spur Cross Conservation Area, Maricopa County Parks and Recreation, March 19, 2022. Natural History Institute, Prescott, AZ.
- Central Arizona Chapter for the Society of Conservation Biology –ASU campus plants April 15, 2021.
- Mirabella at ASU, Senior Living Residents – Campus plants tour 28 March 2021.
- 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 <https://watch.showandtell.film/watch/sanpedrofilm?subscriberID=8dbe18d4-5f39-11eb-acb4-d77ac2363a07>
- 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, March 5-7, 2019.
- K-12 outreach at ASU Natural History Collections Building [<https://biokic.asu.edu/>] (ongoing)
- 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.
- Central Arizona Butterfly Association, annual butterfly count at Boyce-Thompson Arboretum (2013 - present).
- McDowell Sonoran Preserve, bi-annual butterfly count (2013 - present).
- Wildflower walks and volunteer/staff wildflower identification training at Boyce Thompson Arboretum (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 teachers and K-12 (ongoing).
- Prescott College botany students guest instructor, Sept 19, 2017.
- Donald J. Pinkava memorial, July 1, 2017.
- Boyce-Thompson Arboretum winter/spring annual wildflower training, 2017, 2019.
- “The Nature of Creation, Joseph’s Hayden’s Oratorio and Beyond,” (Plant fossil displays and 3D images for Hayden Library exhibit). April –October 2015.
- Grass Identification workshop, Plant Atlas Project of Arizona (PAPAZ), seminar and field trip, September 19 & 20, 2015.
- Fossil Freeway Open House, ASU Natural History Collections Building, September 10, 2015.
- ASU School of Life Science: “ASU Explores Outdoors” Field trip leader for interpretive hikes with in local natural areas, 2013, 2014, 2015.
- Patten Herbal Collection photo archive of 18th Century Hanbury volumes, 2015.
- SoLS Walking Club, interpretive hike of campus plants, February 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, September 9-10, 2014.
- Guest instructor Canyon Ridge Elementary School 4th grade class, May 19, 2014.

- Tempe Historical Museum “Botany Day,” June 26, 2013.
- SEINet, on-line database tutorial for Forest Service Terrestrial Ecosystems Survey Team, June 4, 2013.
- Maricopa County Master Gardener’s plant identification workshop, 10 May 2013.
- Boy Scouts of America– desert plant identification at South Mountain, February 23, 2013.
- ASU Campus plants digital database - Cooperative project with grounds crew identifying species on ASU campus, 2013.

SCIENCE ADVISORY BOARD

The Natural History Institute, Prescott, Arizona

GRADUATE MENTORING

Graduate degrees in progress

Luke Ramsey, PhD

Annie Weaver-Bryant, PhD

Kristen Countryman, MS

Brittany Burgard, MS

Donna LaGuardia, MS

Soon Flynn, PhD

Daniel Moses, MS

Peter Price, PhD

Zane Robertson, MS

Graduated

Luke Ramsey, 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, December 2018. Fire and reseeding effects on Arizona Upland plant community composition and a floristic inventory of Cave Creek Regional Park. MS.

Albatool Albedewi, December 2017. Developing a Virtual Flora Portal for Vascular Plants of Saudi Arabia. MS.

Danika Setaro, December 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, August 2015. Flora of the Upper Verde River, Arizona. MS.

Lane Butler, August 2015. Ecological effects of stream flow permanence on butterfly and plant communities of Sonoran Desert streams. MS.

Doug Newton, April 2012. The vascular flora of the Eagletail Mountain Region. MS.

Darin Jenke, April 2011. The Phoenix Four Rivers flora, Maricopa County, Arizona. MS.
Bethany Lester, November 2008. The vascular flora of the Hummingbird Springs Wilderness, Maricopa County, Arizona. MS.

UNDERGRADUATE, GRADUATE, AND K-12 MENTORING

Alexandra Dubé, Herbarium intern 2023
Vanessa Gorlick, "Conservation Photography's Influence on Attitudes and Beliefs Towards Environmentalism and The Climate Conversation" Barrett Honor's College thesis, 27 April 2023.
Keri Inouye, Herbarium intern 2023
Alexander Fenlon, Herbarium intern 2023
Harrison Wickramasekera, Herbarium intern 2022-2023
Luke Ramsey, Herbarium intern 2022-2023
Kaidence Lewis-Quan, Herbarium intern 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" 16 Mar 2022.
Emma Knapp, undergraduate research 2021
Courtney Currier, Graduate research/Herbarium intern 2021, "Vascular Plants of Arizona: *Salpichroa* (Solanaceae) in Arizona." *CANOTIA*: An Arizona journal publishing botanical and mycological papers [<https://canotia.org/>]
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-present
Chrisovalantou Karakozis, Herbarium intern 2020
Kariah Slagel, Undergraduate research/Herbarium intern 2018 - 2019 "*Jaltomata* (Solanaceae)" treatment for *CANOTIA*: An Arizona journal publishing botanical and mycological papers [<https://canotia.org/>]
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* [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: An Arizona journal publishing botanical and mycological papers*
[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/Honor's College thesis 2012
Katie Arrivas, Herbarium intern, 2011- 2013
Elizabeth Ochoa, Herbarium intern, 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
National Geographic Society

MISCELLANEOUS

Date of birth: March 22, 1964
United States Women's Open Championships 1995, 1997, 1999 (Golf)
Big Eight champion 1987, University of Colorado school record holder (Javelin)
High school All-American, Ft. Pierce Central HS, 1982 (Basketball)