

J. RICHARD ABBOTT

BEREA Herbarium

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EDUCATION

December 2009 Ph.D., Botany. University of Florida, Gainesville, Florida
May 1998 M.S., Botany. University of Florida, Gainesville, Florida
February 1994 B.A., Biology and German, Summa Cum Laude. Berea College, Berea, Kentucky

RELEVANT WORK AND RESEARCH EXPERIENCE

May 2025 – present **Visiting Assistant Curator.** BERE herbarium at EKY, Eastern Kentucky University. Processing the BERE backlog (~11,000 unique labels generated; + ~10K dups) & assisting with integration into the EKY herbarium. EKY Curator, Dr. Sally Chambers.

July 2018 – May 2025 **Associate Professor.** School of Mathematical and Natural Sciences, University of Arkansas at Monticello. BIOL 1063 (Introduction to Biological Science), BIOL 1103 (Medical Terminology), BIOL 2143 (General Botany), BIOL 2171 (General Botany Lab), BIOL 3013 (Plants in Our World), BIOL 3434 (Regional Flora & Lab), and BIOL 3484 (Ecology & Lab). Supervisor, Dr. Shuneize Slater.

September 2020 – May 2025 **Affiliate Graduate Faculty.** Arkansas State University, Department of Biological Sciences. Serving on graduate committees of biology master's students Grace McCartha and Caity Sims, and assisting with research in the Marsico Laboratory and working with other graduate students, Brendan Kosnik and Diana Soteropoulos.

July 2017 – May 2018 **Botanical Research Contractor.** Missouri Botanical Garden. Follow-up quality control revision of Flora of India checklist database. Supervisor, Dr. Peter Raven, Emeritus Director of MBG, St. Louis.

August 2017 **Invited Lecturer.** Universidad Pedagógica y Tecnológica de Colombia, IX Congreso Colombiano de Botánica. Identificación de familias Neotropicales, a 3-day 40-hour Post-Congress course with 56 students.

March 2015 – May 2017 **Research Assistant.** New York Botanical Garden. New Manual of Vascular Plants of Northeastern United States and Adjacent Canada, an update to Gleason & Cronquist 1991. Supervisor, Dr. Rob Naczi, Curator North America Botany.

Summers 2013 – 2018, 2021 **Visiting Professor of Biology.** Hancock Biological Station, Murray State University, Murray, Kentucky. Developed and taught Field Botany (BIO 553/663), an undergraduate/graduate course: survey of the vascular flora of western Kentucky and adjacent states with emphasis on field identification of common species of the region. Current Director, Dr. Michael Flinn; Emeritus Director, Dr. David White.

August 2011 – March 2015 **Post Doctorate Researcher.** Missouri Botanical Garden. Flora of India Checklist. Supervisor, Dr. Peter Raven, Emeritus Director of MBG, St. Louis.

January – June 2011 **Intern: Identification of Herbarium Material to Family.** Missouri Botanical Garden Herbarium. Identification of herbarium material with Ron Liesner and several projects, such as the creation of a backlog for North American plants sorted to family. Also pursued floristic and taxonomic work with Polygalaceae.

Fall 2009 – Spring 2010 **Lecturer.** Eastern Illinois University, Charleston, Illinois. Taught Introductory Biology for majors (BIO 1100) and for non-majors (BIO 1001). Contact, Dr. Barbara Carlsward, Professor.

Summer 2002 – Fall 2008 **Botanical Consultant.** Independently employed. Various projects included field surveys, vegetation mapping, rare plant inventories, and report preparation throughout Florida, with a focus on Suwannee River Water Management District lands.

Spring 2004 **Graduate Teaching Assistant.** Botany Department, The University of Florida. Responsible for all aspects of preparing and teaching the weekly six-hours of labs, including the collection of plant material and leading field trips. Graduate Plant Taxonomy (BOT 6325); Lecture Professors, Drs. Doug and Pam Soltis.

August 2001 – June 2003	Senior Agriculturist. Greenhouse Manager, Botany Department, University of Florida. Responsible for maintaining plants in departmental greenhouses, overseeing research projects, and coordinating with labs.
March – August 2001	Field Botanist, Team Leader, and Natural Resources Program Coordinator. Florida Natural Areas Inventory and the Nature Conservancy. Supervised vegetation sampling, botanical surveys, and computer data entry on Suwannee River Water Management District lands.
March – November 2000	Field Technician. Assistant Botanist, Florida Natural Areas Inventory and the Nature Conservancy. Conducted vegetation sampling and botanical surveys on Suwannee River Water Management District Lands in northern Florida. [Work was continued through February 2001 directly for the Suwannee River Water Management District entering data.]
October 1999 – March 2000	Assistant Plant Grower. San Felasco Nursery, Alachua County, Florida. Assisted in most aspects of nursery management; primarily responsible for maintaining plants in a sellable condition.
July 1999	Assistant Museum Scientist. Museum of Systematics and Ecology, Department of Evolution, Ecology, and Marine Biology, University of California, Santa Barbara. Resolved nomenclatural issues and processed specimens for Dr. Jennifer Thorsch.
Spring 1999	Lecturer in Botany. Biology Department, Berea College. Taught Introductory Botany (BIO 114), Field Botany (BIO 342), and Economic Botany (BIO 386).
May 1998 – January 1999	Restoration Botanist. Rancho San Marcos Golf Course, Santa Barbara, California. Responsible for all aspects of enhancing and restoring native plant communities: planning, installation of plants and irrigation, monitoring, and weed control.
September 1998 – January 1999	Botanical Consultant. Rachel Tierney Consulting Company, Santa Barbara, California. Various activities included field surveys, vegetation mapping, revegetation monitoring, and report preparation.
August 1998 – January 1999	Herbarium Assistant. Museum of Systematics and Ecology, Department of Evolution, Ecology, and Marine Biology, University of California, Santa Barbara. Involved in plant specimen management.
Spring 1997 – February 1998	State Extension Botanist. Herbarium (FLAS), Florida Museum of Natural History, Gainesville. Plant identifications were made for county extension agents and private individuals from throughout Florida.
April 1996 – January 1998	Field Botanist. Florida State Park Service Volunteer. Conducted field, herbarium, and library research in relation to thesis: A Floristic Inventory of the Waccasassa Bay State Preserve, Levy County, Florida.
Fall 1995 – Spring 1997	Graduate Teaching Assistant. Botany Department, The University of Florida. Prepared lectures and laboratories, collected plant material, led field trips, and tutored students. Practical Plant Taxonomy (BOT 2710), Introduction to Ecology Laboratory (PCB 3043), Integrated Principles of Biology Laboratory (BSC 2011).
1996 – 1997	Botanical Field Consultant. Conducted searches for rare and endangered species in Florida and made general field inventories of all plant species seen. Contracted by private individuals and companies on several occasions.
July 1994 – July 1995	Field Botanist. Thomas J. Watson Fellowship. Botanical Explorations in South America: Colombia, Ecuador, and Bolivia. Collected, processed, and cataloged 2,500 plants for Missouri Botanical Garden and Florida Museum of Natural History Herbaria.
Spring 1990 – Spring 1994	Assistant Herbarium Curator. Berea College Herbarium, Berea, Kentucky. All phases of herbarium management: collected, identified, mounted, labeled, and cataloged vascular plants and supervised herbarium student workers. Curator, Dr. R.L. Thompson.
Winter 1991 – Spring 1994	Research Assistant. Biology Department, Berea College. Carried out field and herbarium research projects with Dr. R.L. Thompson: Vegetation and Vascular Flora of an Abandoned Limestone Quarry, Clark County, Kentucky. A Floristic Survey of Fort Boonesborough State Park, Madison County, Kentucky. The Campanulaceae of Kentucky. Vascular Flora of the only <i>Drosera</i> site in Kentucky, Pulaski County.

- Spring 1990 – Fall 1993 | **Undergraduate Teaching Assistant.** Biology Department, Berea College. Laboratory maintenance and supervision, graded exams and papers, prepared handouts, tutored students, administered quizzes, and led field trips. General Biology (BIO 100), General Botany (BIO 114), Field Botany (BIO 332), Dendrology (BIO 336), Biology Seminar (BIO 392). Professor, Dr. R.L. Thompson.
- March 1993 – October 1993 | **Field Botanist.** Funded by the Nature Conservancy, Kentucky Chapter, the Kentucky Nature Preserves Commission, and the USDA Forest Service. Botanical survey of the London Ranger District, Daniel Boone National Forest, with special emphasis on rare, threatened, endangered, and sensitive species and description of plant communities.

PUBLICATIONS

- Majure, L.C., R.F.C. Naczi, **J.R. Abbott**, K.R. Wood, J.E. Valencia-D., G. Stonehouse, & K.M. Neubig. 2024. Phylogeny of North American *Dichanthelium* (Panicoideae, Poaceae): testing species limits in one of the most taxonomically complicated group of grasses. *International Journal of Plant Sciences* 185(4): 334–360.
- Hanes, M.M., O.J. Blanchard, Jr., J.E. Valencia-D., T. McLay, **J.R. Abbott**, S. McDaniel, R.L. Barrett, S. Mathews, & K.M. Neubig. 2024. Phylogenetic relationships within tribe Hibisceae (Malvaceae) reveal complex patterns of polyphyly in *Hibiscus* and *Pavonia*. *American Journal of Botany* 49(1): 77–116.
- McCartha, G.L., C.M. Sims, B.J. Kosnik, **J.R. Abbott**, M.L. Jones, B.E. Benton, S.A. Mangan, & T.D. Marsico. 2023. Flora of six lower Mississippi River Islands (U.S.A.). *JBRIT* 17: 281–311.
- Pastore, J.F.B., A. Martinez, **J.R. Abbott**, & K.M. Neubig. 2023. Towards new generic delimitations in Polygalaceae II: *Senega* Spach. *Annals of the Missouri Botanical Garden* 108: 126–249.
- Ganeshaiah, K.N., K.N. Gandhi, B.R. Kailash, R. Ganesan, **J.R. Abbott**, K.S. Bawa, P.H. Raven. 2022. Checklist of Indian Plants, Vol. 1–5 [of 13 planned]. Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore.
- Abbott, J.R.** 2021. Polygalaceae. For: Flora of North America Editorial Committee, eds. 1993+. *Flora of North America North of Mexico*. 16+ vols. New York and Oxford. Vol. 11.
- Kellogg, E.A., **J.R. Abbott**, K.S. Bawa, K.N. Gandhi, B.R. Kailash, K.N. Ganeshaiah, U.B. Shrestha, & P. Raven. 2020. Checklist of the grasses of India. *Phytokeys* 163: 1–560.
- Neubig, K.M. & **J.R. Abbott**. 2020. Interspecific hybridization in North American *Polygala* (Polygalaceae). *JBRIT* 14: 47–56.
- Pastore, J.F.B., **J.R. Abbott**, K.M. Neubig, C. van den Berg, M.C. de A. Mota, A. Cabral, & M. Whitten. 2019. Phylogeny and biogeography of *Polygala* (Polygalaceae). *Taxon* 68:1–19.
- Abbott, J.R.** & R.L. Thompson. 2019. *Aira elegans* (Poaceae) and *Medicago orbicularis* (Fabaceae): new to the Kentucky flora. *Phytoneuron* 2019-42: 1–6.
- Mota, M., **J.R. Abbott**, J.F.B. Pastore, R.M. Salas, & K.M. Neubig. 2019. Three lonely Argentines: toward a new generic delimitation in Polygalaceae. *Taxon* <https://doi.org/10.1002/tax.12090>
- Allen, J.M., C.C. Germain-Aubrey, N. Barve, K.M. Neubig, L.C. Majure, S.W. Laffan, B.D. Mishler, H.L. Owens, S.A. Smith, W.M. Whitten, **J.R. Abbott**, D.E. Soltis, R. Guralnick, & P.S. Soltis. 2019. Spatial phylogenetics of Florida vascular plants: The effects of calibration and uncertainty on diversity estimates. *iScience*, doi: <https://doi.org/10.1016/j.isci.2018.12.002>.
- Abbott, J.R.** 2018. Betulaceae, the Birch Family. In: *New Manual of Vascular Plants of Northeastern United States and Adjacent Canada*, online edition of 2018. NYBG Press, NY. -- published as 11 stand-alone publications (condensed here for brevity): Cleomaceae, Iridaceae, Myricaceae, Nelumbonaceae, Nymphaeaceae, Phytolaccaceae, Plumbaginaceae, Portulacaceae, Potamogetonaceae, Tamaricaceae.
- Pastore, J.F.B., Mota, M., **Abbott, J.R.**, & J. McNeill. 2018. (2627) Proposal to conserve the name *Senega* against *Senegaria*, *Anthallogea*, *Corymbula*, *Leptrochia*, *Pylostachya*, and *Sexilia* (Polygalaceae). *Taxon* 67: 650–651.
- Lam, V.K.Y., H. Darby, V.S.F.T. Merckx, G. Lim, T. Yukawa, K.M. Neubig, **J.R. Abbott**, G.E. Beatty, J. Provan, M. Soto Gomez, & S.W. Graham. 2018. Phylogenomic inference *in extremis*: A case study with mycoheterotroph plastomes. *American Journal of Botany* 105:480–494.

Abbott, J.R. 2017. Alismataceae, the Waterplantain Family. In: New Manual of Vascular Plants of Northeastern United States and Adjacent Canada, online edition of 2017. NYBG Press, NY. -- published as 11 stand-alone publications (condensed here for brevity): Annonaceae, Cabombaceae, Calycanthaceae, Cannaceae, Ceratophyllaceae, Hypoxidaceae, Lauraceae, Magnoliaceae, Rosaceae, Saururaceae.

Pastore, J.F.B., **J.R. Abbott**, K.M. Neubig, W.M. Whitten, R. Mascarenhas, M.C.A. Mota, & C. van den Berg. 2017. A molecular phylogeny and taxonomic notes in *Caamembeca* (Polygalaceae). *Systematic Botany* 42:54-62.

Abbott, J.R. 2016. Acoraceae, the Eelgrass Family. In: New Manual of Vascular Plants of Northeastern United States and Adjacent Canada, online edition of 2016. NYBG Press, NY. -- published as 21 stand-alone publications (condensed here for brevity): Amaryllidaceae, Asparagaceae, Asphodelaceae, Bromeliaceae, Burmanniaceae, Butomaceae, Colchicaceae, Dioscoreaceae, Haemodoraceae, Juncaginaceae, Liliaceae, Marantaceae, Nartheciaceae, Polygalaceae, Pontederiaceae, Ruppiaceae, Scheuchzeriaceae, Smilacaceae, Tofieldiaceae, Zosteraceae.

Abbott, J.R. 2015. Polygalaceae. Pp. 633-636 in Chester, E., B.E. Wofford, J. Shaw, D. Estes, & D.H. Webb, eds. *Guide to the Vascular Plants of Tennessee*, The University of Tennessee Press, Knoxville.

Abbott, J.R. & J.F.B. Pastore. 2015. Preliminary synopsis of the genus *Hebecarpa* (Polygalaceae). *Kew Bull.* 70:39.

Abbott, J.R. & R.L. Thompson. 2015. Addendum to the vascular flora of the Hancock Biological Station, Murray State University, Calloway County, Kentucky. *J. Bot. Res. Inst. Texas* 9(1):229-233.

Castner, J.L. & **J.R. Abbott**. 2015. *Photographic Atlas of Botany and Guide to Plant Identification*, 2nd Edition. Feline Press, Gainesville, Florida.

Judd, W.S., D.L. Nickrent, K.R. Robertson, **J.R. Abbott**, C.S. Campbell, B.S. Carlsward, T.M. Schuster, K.M. Neubig, S. Zona, M.J. Donoghue, & E.A. Kellogg. 2015. *Photo Gallery of Vascular Plants [to accompany Plant Systematics: A Phylogenetic Approach, 4th ed.]*. Sinauer Associates, Inc., Sunderland, Massachusetts. ISBN: 978-1-60535-574-0. Website: sites.sinauer.com/plantsystematics4e.

Neubig K.M., W.M. Whitten, **J.R. Abbott**, S. Elliott, D.E. Soltis, & P.S. Soltis. 2014. Variables affecting DNA preservation in archival DNA specimens. In: Applequist W.L. & L.M. Campbell, eds. *DNA banking in the 21st Century: Proceedings of the U.S. workshop on DNA banking*. St. Louis: The William L. Brown Center at the Missouri Botanical Garden.

Thompson, R.L. & **J.R. Abbott**. 2013. History, dispersal, and distribution of *Buddleja davidii* (Scrophulariaceae) in Kentucky. *J. Bot. Res. Inst. Texas* 7(1):495-505.

Chatrou, L.W., M.D. Pirie, R.H.J. Erkens, T.L.P. Couvreur, K.M. Neubig, **J.R. Abbott**, J.B. Mols, J.W. Maas, R.M.K. Saunders, & M.W. Chase. 2012. A new subfamilial and tribal classification of the pantropical flowering plant family Annonaceae informed by molecular phylogenetics. *Bot. J. Linn. Soc.* 169:5-40.

Pastore, J.F.B. & **J.R. Abbott**. 2012. Taxonomic notes and new combinations for *Asemeia* (Polygalaceae). *Kew Bull.* 67(4):801-813.

Thompson, R.L., D. Poindexter, & **J.R. Abbott**. 2012. Vascular flora and plant communities of Dead Horse Knob (Rucker's Knob), Madison County, Kentucky. *J. Bot. Res. Inst. Texas* 6(2):631-651.

Zecca, G., **J.R. Abbott**, W.-B. Sun, A. Spada, F. Sala, & F. Grassi. 2012. The timing and the mode of evolution of wild grapes (*Vitis*). *Mol. Phylog. & Evol.* 62:736-747.

Abbott, J.R. 2011. Notes on the disintegration of *Polygala* (Polygalaceae), with four new genera for the flora of North America. *J. Bot. Res. Inst. Texas* 5(1):125-137.

Abbott, J.R. & W.S. Judd. 2011. *Badiera subrhombifolia* (Polygalaceae), a new species from Hispaniola. *Brittonia* 63(2):161-170.

Abbott, J.R. & R.L. Thompson. 2011. New combinations in *Phoradendron leucarpum* (Viscaceae). *J. Bot. Res. Inst. Texas* 5(1):139-141.

Neubig, K.M. & **J.R. Abbott**. 2010. Primer development for the plastid region *ycf1* in Annonaceae and other magnoliids. *Am. J. Botany (AJB Primer Notes & Protocols)* 97:e52-e55.

Abbott, J.R., C.L. White, & S.B. Davis. 2008. *Praxelis clematidea* (Asteraceae), a genus and species new for the flora of North America. *J. Bot. Res. Inst. Texas* 2(1):621-626.

- Bécquer Granados, E.R., K.M. Neubig, W.S. Judd, F. Michelangeli, **J.R. Abbott**, & D.S. Penneys. 2008. Preliminary molecular phylogenetic studies in *Pachyanthus* (Miconieae, Melastomataceae). Bot. Rev. 74:37-52.
- Judd, W.S., **J.R. Abbott**, & A. Morris. 2008. *Illicium guajaibonense*, elevated to species rank and compared with the subspecies of *Illicium cubense* (Illiciaceae). J. Bot. Res. Inst. Texas 2(2):799-806.
- Thompson, R.L., **J.R. Abbott**, & A.E. Shupe. 2005. Vascular flora from five plant habitats of an abandoned limestone quarry in Clark County, Kentucky. J. Kentucky Acad. Sci. 66:24-34.
- Abbott, J.R.** & B.S. Carlsward. 2004. Noteworthy collections: Florida. Castanea 69:324-327.
- Abbott, J.R.**, R.L. Thompson, & R.L. Gelis. 2004. Noteworthy vascular plants from Kentucky: a state record, range extensions, and various species of interest. J. Kentucky Acad. Sci. 65:94-103.
- Abbott, J.R.**, R.L. Thompson, & R.L. Gelis. 2001. Vascular plants new to Kentucky. Sida 19:1199-1202.
- Abbott, J.R.** & W.S. Judd. 2000. A floristic inventory of the Waccasassa Bay State Preserve, Levy County, Florida. Rhodora 102:439-513.
- Thompson, R.L., R.L. Jones, **J.R. Abbott**, & W.N. Denton. 2000. Botanical survey of Rock Creek Research Natural Area, Kentucky. U.S.D.A. Forest Service, Northeastern Research Station, General Technical Report NE-272.
- Campbell, J.J.N., **J.R. Abbott**, R.R. Cicerello, J.D. Kiser, J.R. MacGregor, & J.G. Palis. 1994. Cooperative inventory of endangered, threatened, sensitive, and rare species, Daniel Boone National Forest, London Ranger District. Kentucky State Nature Preserves Commission, Frankfort.

PROFESSIONAL PRESENTATIONS AND POSTERS

- Mota, M.C. de A., J.F.B. Pastore, & **J.R. Abbott**. 2023. Taxonomic Revision of *Asemeia* (Polygalaceae). 73^o Congresso Nacional de Botânica. Belém, Brazil.
- Mota, M.C. de A., J.F.B. Pastore, & **J.R. Abbott**. 2023. Phylogeny of *Asemeia* (Polygalaceae): insights on the chaos. 73^o Congresso Nacional de Botânica. Belém, Brazil.
- Hanes, M.M., O.J. Blanchard Jr., J.E. Valencia-D., T. McLay, **J.R. Abbott**, S. McDaniel, R.L. Barrett, S. Mathews, & K.M. Neubig. 2023. A new phylogeny of tribe Hibisceae (Malvaceae) reveals complex patterns of polyphyly in *Hibiscus* and *Pavonia*. Botanical Society of America, Boise, Idaho [July 2023].
- Tate, B., **J.R. Abbott**, & K.M. Neubig. 2022. Determining species delimitation of *Sisyrinchium* (Iridaceae) in Arkansas using genomic and phylogenetic approaches. Arkansas Academy of Science, Arkadelphia, AR, 1-2 April. Poster.
- McCartha, G.L., C.M. Sims, B.J. Kosnik, **J.R. Abbott**, M.L. Jones, B.E. Benton, & T.D. Marsico. 2022. Plant community composition of six Lower Mississippi River islands. International Biogeography Society, Vancouver, January. Poster.
- McCartha, G.L., C.M. Sims, B.J. Kosnik, **J.R. Abbott**, M.L. Jones, & T.D. Marsico. 2021. Flora of six Lower Mississippi River islands. SUPERB Scholarship Program 2021 Summer Institute, Lake Barkley State Resort Park, Cadiz, KY, 8-11 August. Poster.
- Shults, K., K.M. Neubig, & **J.R. Abbott**. 2018. Phylogenetic studies in North American *Sisyrinchium angustifolium* species complex. Botanical Society of America, Rochester, Minnesota [July 2018].
- Abbott, J.R.** 2017. Introducción a la filogenia, biogeografía y morfología de Polygalaceae, con enfoque en los géneros del nuevo mundo y las especies Colombianas. Conferencia Magistral (keynote talk), IX Congreso Colombiano de Botánica, Tunja, Colombia. <http://ixcongresocolombianodebotanica.com/magistrales/#Abbott>
- Abbott, J.R.**, K.M. Neubig, & B. Carlsward. 2017. Synopsis de *Badiera* (Polygalaceae): un clado de arbustos Caribeños. Simposio de Sistemática y Biogeografía de plantas Neotropicales, IX Congreso Colombiano de Botánica, Tunja, Colombia.
- Neubig, K.M., L.C. Majure, **J.R. Abbott**, R. Naczi, W.S. Judd, & W.M. Whitten. 2017. Phylogenomics of *Dichantherium* (Paniceae: Poaceae): Biogeography and the problem of high sympatry. XIX International Botanical Congress, Shenzhen, China.

- Vignovich, W., G. Stonehouse, K. Wood, **J.R. Abbott**, R. Naczi, L.C. Majure, and K.M. Neubig. 2016. The origin and diversification of *Dichantherium* (Poaceae) in Hawaii. Botanical Society of America meetings (BSA), Savannah, Georgia.
- Majure, L.C., K.M. Neubig, **J.R. Abbott**, R. Naczi, W.S. Judd, and W.M. Whitten. 2016. A preliminary look at phylogenetic relationships of *Dichantherium* (Paniceae: Poaceae). BSA, Savannah.
- Bleich, A., A. Trauth-Nare, **J.R. Abbott**, R. Naczi, and K.M. Neubig. 2016. Are there cryptic species in the North American Seneca snakeroot, *Polygala senega* (Polygalaceae)? BSA, Savannah.
- Biver, W., **J.R. Abbott**, R. Naczi, K. Gullett, D. Poindexter, and K.M. Neubig. 2016. Phylogenetic relationship of *Hudsonia* (Cistaceae): a North American endemic genus. BSA, Savannah.
- Naczi, R., K.M. Neubig, L.C. Majure, **J.R. Abbott**, W.S. Judd, and W.M. Whitten. 2016. Systematics of the *Dichantherium ensifolium* clade (Poaceae: Paniceae). BSA, Savannah.
- Flowers, N., K.M. Neubig, **J.R. Abbott**, R.L. Liesner, & B. Piatkowski. 2015. The *Mitreola petiolata* (Loganiaceae) complex: cryptic species revealed with DNA and micromorphological data. BSA, Edmonton, Alberta. [poster]
- Naczi, R.F.C., **J.R. Abbott**, & A. Downey. 2015. New floristic manual for northeastern United States and adjacent Canada: status report and emerging patterns. BSA, Edmonton.
- Neubig, K.M., **J.R. Abbott**, L. Majure, J.M. Allen, M. Whitten, N. García, C. Germain-Aubrey, P. Soltis, & D. Soltis. 2015. BarFF: towards a complete set of DNA barcode data for the vascular plants of Florida. BSA, Edmonton.
- Neubig, K.M., L. Majure, **J.R. Abbott**, R.F.C. Naczi, W.S. Judd, & M. Whitten. 2015. Preliminary phylogenetic relationships of *Dichantherium* (Poaceae) as revealed through whole plastomes and nrDNA via genome skimming. BSA, Edmonton.
- Germain-Aubrey, C., J.M. Allen, K.M. Neubig, S. Laffan, R. Guralnick, T. Lamy, L. Majure, B. Mishler, D. Soltis, J.M. Ponciano, **J.R. Abbott**, & P. Soltis. 2015. Using herbarium data for niche modeling to study phylogenetic diversity and endemism of Florida plants. BSA, Edmonton.
- Neubig K.M., W.M. Whitten, **J.R. Abbott**, S. Elliott, D.E. Soltis, & P.S. Soltis. 2014. Variables affecting DNA preservation in archival plant specimens. BSA, Boise, Idaho.
- Neubig K.M. & **J.R. Abbott**. 2014. A phylogeny of the pawpaws (*Asimina* and *Deeringothamnus*; Annonaceae) is indicative of introgression based on plastid DNA data. BSA, Boise.
- Abbott, J.R.**, K.M. Neubig, & R.L. Liesner. 2013. *Mitreola petiolata* (Loganiaceae): one global species or several cryptic lineages? BSA, New Orleans, Louisiana.
- Abbott, J.R.**, K.M. Neubig, & B.S. Carlsward. 2013. Synopsis of *Badiera* (Polygalaceae), a Caribbean clade of shrubs. BSA, New Orleans.
- Abbott, J.R.**, K.M. Neubig, & B.S. Carlsward. 2013. Further insight into the disintegration of the polyphyletic mess that was *Polygala* s.l. (Polygalaceae). BSA, New Orleans. [poster]
- Wilber, H.K., B.S. Carlsward, & **J.R. Abbott**. 2013. Leaf anatomy and systematics of *Polygaleae* (Polygalaceae). BSA, New Orleans. [poster]
- Neubig, K.M., O.J. Blanchard, **J.R. Abbott**, M. Hanes, & S. McDaniel. 2013. An expanded phylogeny of tribe *Hibisceae* (Malvaceae) reveals polyphyly of even more genera. BSA, New Orleans. [poster]
- Neubig, K.M., F. Herrera, S. Manchester, C. Germain-Aubrey, **J.R. Abbott**, W.M. Whitten. 2013. Phylogenetics of Ulmaceae and placement of the extinct *Cedrelospermum* using DNA data and fossils. BSA, New Orleans. [poster]
- Germain-Aubrey, C., P. Soltis, G. Burleigh, D. Soltis, J. Allen, K. Neubig, L. Majure, & **J.R. Abbott**. 2013. Phylogenetic diversity today and tomorrow: The Florida Plant Phylogeny Project. International Biogeography Society Meeting, Miami, Florida.
- Neubig, K.M., F. Herrera, S. Manchester, & **J.R. Abbott**. 2012. Fossils, biogeography and dates in an expanded phylogeny of Ulmaceae. BSA, Columbus, Ohio.
- Neubig, K.M., S. Talley, **J.R. Abbott**, C. Germain-Aubrey, & W.M. Whitten. 2011. Phylogenetics and population genetics of the *Mikania micrantha* complex (Asteraceae). BSA, St. Louis, Missouri. [poster]

Abbott, J.R. & K.M. Neubig. 2010. Phylogeny of the pawpaws (*Asimina* & *Deeringothamnus*, Annonaceae). BSA, Providence, Rhode Island.

Abbott, J.R., B.S. Carlsward, K.M. Neubig, W.S. Judd, M. Whitten, & N.H. Williams. 2010. The disintegration of *Polygala* (Polygalaceae), with four new genera for the flora of North America. BSA, Providence.

Neubig, K.M., **J.R. Abbott**, W.M. Whitten, & N.H. Williams. 2010. BarFF: Barcoding the flora of Florida. BSA, Providence. [poster]

Abbott J.R. & K.M. Neubig. 2008. Phylogeny of the Pawpaws (*Asimina* & *Deeringothamnus*, Annonaceae). The 14th Annual Florida Ecology and Evolution Symposium, Archbold Biological Research Station, Florida.

Bécquer, E., D.S. Penneys, K.M. Neubig, W.S. Judd, & **J.R. Abbott**. 2006. Análisis filogenético preliminar de *Pachyanthus* (Miconieae, Melastomataceae) basado en datos moleculares. Simposio "Evolución en las Antillas: la Perspectiva Molecular" en el marco del IX Congreso Latinoamericano de Botánica, Santo Domingo.

GRANTS

Abbott, J.R. & K.M. Neubig. 2022. Addressing species limits in Arkansas *Sisyrinchium* and *Polygala*. Agency: Arkansas Natural Heritage Commission. Research: \$17,000

Abbott, J.R. 2022. Botanical DNA Lab Work Toward Two Research Projects: Clarifying the taxonomic status of the *Polygala verticillata*, whorled milkwort, complex in Arkansas and Determining species delimitation of *Sisyrinchium* (Iridaceae) in Arkansas using genomic and phylogenetic approaches. UAM Faculty Research Award: \$1500

Abbott, J.R. 2022. Botanical Field Work Toward Two Research Projects: Clarifying the taxonomic status of the *Polygala verticillata*, whorled milkwort, complex in Arkansas and Determining species delimitation of *Sisyrinchium* (Iridaceae) in Arkansas using genomic and phylogenetic approaches. UAM Faculty Research Award: \$1000

PROFESSIONAL ORGANIZATIONS AND ACTIVITIES

I am a member of the Arkansas Native Plant Society and a lifetime member of Phi Kappa Phi. I have a courtesy appointment as a researcher at the Missouri Botanical Garden, and I am 'Consultant Staff' (new name for a courtesy scientist position) at the Florida Museum of Natural History.

Graduate Research & Field Teaching – assisted with botanical field work in Arkansas, through Marsico Lab at Arkansas State University:

■ Grace McCarthy: Thesis project (on committee) – Plant community composition of six Lower Mississippi River islands considering elevation and proximity to the White and Arkansas Rivers. 2020 – 2021

■ Caity Sims: Thesis project (on committee) – Relations of seasonal flood disturbance with plant flowering phenology. 2020 – 2021

■ Diana Soteropoulos: Dissertation project – Floristics in Arkansas: surveying and quantifying management impact of rare ecosystems, launching floristic quality assessment, and predicting rare plant distribution. 2020 – 2021

■ Brendan Kosnik: Thesis project – Species distribution modeling of rare *Carex* sedges in the Mississippi Alluvial Plain and Crowley's Ridge ecoregions. 2022 – 2023.

iNaturalist 'Super User': I began using iNaturalist as a tool with citizen science bioblitzes; I now use iNaturalist as a classroom teaching tool; I make ~15,000 yearly identifications globally for others, focused on the southeastern US (# = rank based on number of plant IDs; 16 Sep 2025): AL (16), AR (3), KY (6), LA (2), MO (7), MS (5), overall globally (205). With over 3.8 million observers, 453 K identifiers, and over 274 million observations, iNat is a global community of naturalists, with only about 12% of us also identifying observations of others.

Service at UAM: Campus Tree Board, Curriculum & Standards Committee, Committee on Committees; Monticello City Tree Board; UAM curatorial activities (completed imaging & skeletal databasing of holdings); assisted colleagues (with labs, field trips, experiments, moving, cleaning, donating to various causes, etc.), worked with a home school group that visited UAM, worked with a student forestry group training for a national competition; diversified native species in the campus arboretum & removed exotics (spending hundreds of hours & thousands of dollars to build a living teaching collection).

Angiosperms353 Genomics Workshop, Wichita State University, 13–16 June 2022. Dr. James Beck, organizer.

Invited speaker for plant-related talks with various groups, e.g. (most of these recent presentations were through Zoom; I have given dozens of such talks with many different groups over the years, usually in-person):

- Arkansas Native Plant Society 2022 Basics of Botany Series with Dr. Richard Abbott (Saturdays, 6 pm). Part 1: Plant Identification Terminology, 2 Apr; Part 2: Plant Reproductive Terminology, 21 May; Part 3: The Basics Behind a Name, 18 Jun.
- Artificial Plant ID Motifs: Simple and Useful Patterns for Field Identification of Plants. Central Arkansas Master Naturalists Advanced Training Speaker. 17 Feb 2022. https://arkansasmasternaturalists.org/content.aspx?page_id=22&club_id=250502&module_id=512286 or https://us02web.zoom.us/rec/share/8PnKb8Q3xWfTP_NIkbf8kyRYok3KhS97NDZFHSnF_BjdDzhmF9RNF0fvq_8p1XU.qqnW_2U23KF1bh2I [Access Passcode: N56*Hjd3]
- Vines of Missouri. St. Louis chapter, Missouri Native Plant Society, 22 Sep 2021. <https://monativeplants.org/monps-webinars/>
- Introduction to Practical Plant ID Patterns. WeDigBio, 17 Oct 2021.
- Through the Eyes of a Botanist: a pictorial look at Arkansas's Natural Areas. WeDigBio, 16 Oct 2021.
- Vines of Arkansas. Arkansas Native Plant Society, 4 Sep 2021. <https://www.youtube.com/watch?v=57J-FUFasRA>
- Natural Plant ID Motifs: Examples from Selected Plant Families. St. Louis chapter, Missouri Native Plant Society, 24 Mar 2021. <https://monativeplants.org/monps-webinars/>
- Artificial Plant ID Motifs: Simple and Useful Patterns of Field Identification of Plants. St. Louis chapter, Missouri Native Plant Society, 27 Jan 2021. <https://monativeplants.org/monps-webinars/>
- Plant ID Patterns. Master Gardeners, El Dorado, Arkansas, 16 May 2019.

In April 2022, as part of the II Seminario Internacional y Nacional de Jardines Botánicos and the II Seminario Internacional de Diálogo de Saberes en Plantas Medicinales, both part of the V Semana del Planeta Tierra UPTC, Cátedra Ambiental Campaña Libertadora "200 años de biodiversidad" in Tunja, Colombia, I was invited to teach a six-hour, three-part online course (through Zoom) to dozens of Latin American students: I Curso virtual para el reconocimiento de caracteres en la identificación de plantas del Neotrópico (por Zoom).

- Sesión 1 Caracteres vegetativos básicos para la identificación de plantas, 19 Abr
- Sesión 2 Caracteres reproductivos básicos para la identificación de plantas, 20 Abr
- Sesión 3 Sistema de patrones básicos para simplificar la identificación de plantas, 21 Abr.

Weeks Bay National Estuarine Research Reserve Plant ID Workshop, a week-long botanical field session in southern Alabama (for biologists, land managers, & amateur enthusiasts). Jul 2020. <https://www.inaturalist.org/projects/weeks-bay-plant-id-workshop-july-2020>

In 2020, I prepared over 600 specimens of Polygalaceae (the milkwort family) to send as a gift for study to a Brazilian researcher. While the specimens represent years of research and study, many hours were spent that year typing labels, databasing, and pulling duplicate material. That researcher has since had several publications, in part based on the plant specimens I sent him.

2019 SUPERB Summer Institute, held at the Winthrop Rockefeller Institute, Morrilton, Arkansas. Member of the Ethical Collecting Panel and assisted with field excursions to Petit Jean State Park, 6 – 7 Aug 2019.

Sedge Identification and Diversity (*Carex*, Cyperaceae) workshop, at Maywoods. Kentucky Native Plant Society, 21 – 22 May 2019.

Co-taught a 2-week course in Plant Systematics in conjunction with the 12th Latin American Botanical Congress, Ecuador, Oct 2018, during which time I interacted with many different groups:

- Jatun Sacha - 1 official student; half-day session with 3 Germans & 1 Danish student
- Cipca - spent full day with ca 30 students
- Sumak Kawsay - 1.5 days with ecotourism lodge people
- Quilatoa - 1/4 day with indigenous people looking to expand their ecotourism & land management skills
- Quito - 1/2 day with ca 25 students at the national herbarium
- Latacunga - 1/2 day with ca 70 students
- Yachay Tech - 2.5 days with 8-12 students & 1 day with ca 30 students.

Invited lecturer and researcher for plant identification course and fieldwork in Myanmar, Oct – Dec 2017.

Invited keynote speaker and lecturer, 9th Colombian Botanical Congress, Tunja, Colombia. Aug 2017. <https://www.youtube.com/watch?v=ioBVT58BGIM>

Volunteer public outreach community education liaison for three bioblitzes in the greater New York city metropolitan area: Van Cortlandt Park, Bronx; Sandy Hook, New Jersey; Freshkills Park, Staten Island. 2015.

Volunteer public outreach community education liaison, guest lecturer, speaker, and tour leader for various activities associated with the Webster Groves Nature Study Society, Missouri Native Plant Society, Academy of Science St. Louis, Gateway Greening (a community garden organization), Forsyth School, Meramec Community College, and various other school & university programs & courses in St. Louis. 2011 – 2014; 2017.

Guest editor and Translator for Bissea, The Newsletter on Plant Conservation of the National Botanic Garden of Cuba, 2007 – 2013. <http://www.uh.cu/centros/jbn/textos/publicaciones/bissea.html>

Courtesy Assistant Scientist, University of Florida Herbarium (FLAS), Florida Museum of Natural History, Gainesville, Florida, 2010+.

Mexican Short Term Student. American Union Academy, Morelia, Mexico. Jan 1993.

Foreign Exchange Student, Lessing College, Marburg, Germany, for one month; and the University of Vienna, the Translator University, and the Central College Study Abroad Program, Vienna, Austria, for five months. Aug 1991 – Jan 1992.

Non-traditional Student Union, 1990 – 1994, Vice-president, 1993; German Club, 1986 – 1987, 1990, President, 1987; Biology Club, 1990 – 1994.

ACADEMIC AWARDS AND HONORS

- Sigma Xi Scientific Research Society, Eastern Illinois University Chapter, 2009.
- Graduate Certificate in Latin American Studies. Center for Latin American Studies, University of Florida, 2009.
- Certificado de Proficiência em Língua Portuguesa para Estrangeiros (Celpe-Bras), Certificado Intermediário. Administered by the Secretary of Higher Education of the Education Ministry (of Brazil) on October 25, 2006.
- Brazilian Portuguese Fellowship (FLAS AY Fellowship, IEPS-International Resource Information System); University of Florida, 2005. \$20,000.
- Thomas J. Watson Fellowship. Botanical Investigations and Explorations in South America: Colombia, Ecuador, Bolivia. July 1994 – July 1995. \$18,000.
- Phi Kappa Phi Graduate Fellowship, James R. Slater Fellow, Top National Award, 1994. \$7,000.
- T.J. Wood Achievement Award, Berea College, 1994.
- Crawford Prize in Conservation, Berea College, 1994.
- Henry W. Austin Scholar Award, Berea College, 1993.
- J. Stanton King Science Award, Berea College, 1993.
- Phi Kappa Phi International Honor Society, Berea College, 1992.
- Beta Beta Beta National Biological Honor Society, Berea College, 1991.
- Delta Phi Alpha National German Honor Society, Berea College, 1991.
- Student Marshal, 1992 Mid-Year Graduate Recognition Service; senior male with highest G.P.A.
- Zertifikat Deutsch als Fremdsprache (Certificate of German as a Foreign Language). Administered by the Goethe Institute on 12 April, 1991.

PERSONAL REFERENCES

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