

**Tree Advisory Board**  
**Applicant Package - Member**

Tree Advisory Board - Member

**Positions Available 2**

**Term:** 01 Feb 2024 - 17 Jan 2027

**Number of applicants in this package 2**

- Klein, Ryan (reapplying)
- Smith, Erick (reapplying)

**Name:** Klein, Ryan

**Address:** 812 SE 4th Ave., Gainesville, FL, 32601

**Email:** ryanwklein@ufl.edu

**Board Name:** Tree Advisory Board

**Please confirm Full Name, including middle initial, prefix, and physical mailing address:**

Ryan Klein

812 SE 4th Ave.

Gainesville, FL 32601

**In what city district do you live?:**

District 1

**Employer:**

University of Florida

**Phone Number:**

352-284-1861

**Occupation:**

Assistant Professor of Arboriculture

**Why are you interested in serving on this board? (Please answer separately for each board you are applying to.):**

The position is directly related to my research and academic disciplin. Also, I'm very interested in aiding the city with their tree related issues to help ensure tree preservation, maximizing tree benefits, and minimizing the associated risks.

**How many terms have you served on this board previously?:**

1 student, 1 voting member

**Disclaimer:**

**Under Florida law, all information, including e-mail, written letters, documents and phone messages, sent to the Gainesville City Commission are subject to Public Records law. This includes the sender's e-mail address, home address or phone number if shown in the message, the content of the message and any associated attachments to the mail.**

**Do you claim any exemption to public record disclosure pursuant to FLA. STAT. Section 119?:**

No

**If yes, it is required that you submit a detailed explanation of exemption.:**

NA

**Have you been removed from any advisory board for attendance, behaviour or another reason?:**

No

**If you answered yes to the question above, please explain:**

NA

**What is your gender identity?:**

Male

**If you have chosen to self-describe in the question above, you can add your information here:**

NA

**Optional: Ethnicity:**

Caucasian/Non-Hispanic

**Are you a City of Gainesville Employee?:**

No

**Are you a City of Gainesville Intern?:**

No

**Are you currently on a City Advisory Board/Committee?:**

No

**If yes, which City Advisory Board/Committee?:**

NA

**Some of the boards and committees appointed by the City Commission are required to comply with Chapter 112, Florida Statutes, the Financial Disclosure Law. If applicable, would you be willing to file the required financial statement?:**

Yes

**Do you affirm that your personal and business (if applicable) affairs within the City of Gainesville and Alachua County are in substantial compliance with all city and county regulatory and taxing authorities rules and regulations? \*:**

Yes

**Do you agree with the following statement? Appointees to advisory board/committees are required to attend scheduled meetings as specified in the "Advisory Board Handbook." \*:**

Yes

**Do you agree with the following statement? I understand that this completed application is the property of the City of Gainesville, is subject to public record requests and I hereby certify that the statements made on this application are true and correct. :**

Yes

**Time of Submission:** 01/02/24 8:43:14 AM

**Attachments**

- Ryan Klein - CV 2024.pdf

# RYAN KLEIN

Fifield Hall, PO Box 110670 | Gainesville, FL 32611 | 352-284-1861 | [ryanwklein@ufl.edu](mailto:ryanwklein@ufl.edu)

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## EDUCATION

University of Florida (Ph.D., Summer 2020)

- Major: Environmental Horticulture

University of Florida (M.S., Summer 2016)

- Major: Environmental Horticulture with a minor in Urban Planning/ Natural Resource Policy and Economics

Western Illinois University (B.A., Spring 2014)

- Major: Anthropology with a minor in Urban Forestry

Columbia College Chicago (B.A., Winter 2008)

- Major: Business & Entrepreneurship
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## EXPERIENCE

2020-Present Assistant Professor of Arboriculture, University of Florida

- Arboricultural research, extension, and teaching

2020 (Spring) Tree Maintenance Training Session, Florida Department of Transportation (FDOT), Miami, Florida

- Instructed 60 FDOT employees on proper tree and palm maintenance (i.e. pruning, planting, and prevention of damage)

2020 (Spring) Arboriculture Instructor, University of Florida

- Developed lectures, assignments, and labs for undergraduate/graduate course (estimated 15-20 students)
- Responsible for presenting students with course material and grading assignments
- Secured 6-7 guest lectures from various walks of the tree care industry to present students with possible career options currently available

2018 (Fall) Tree Risk Assessment Workshop, Wisconsin Arborist Association Fall Conference

- Instructed three separate one-hour sessions with groups of 30-40 tree care professionals on basic level 2 tree risk assessments
- Highlighted the importance of target occupancy and consequences of failure as related to commonly used tree risk assessment methods

2018 (Summer) Arboricultural Consultant, Unified Building Sciences

- Created working tree inventories for roughly 30 mobile home parks across Florida
- Advised on arboricultural issues that were the result of Hurricane Irma

2018 (Summer) Research Assistant/Crew Leader, University of Florida

- Assessed approximately 60 i-Tree plots for canopy loss following Hurricane Irma
- Managed a crew of three in collecting tree risk assessment data

2018 (Spring) Teaching Assistant, Arboriculture, University of Florida

- Evaluated homework and corresponded with students on issues related to assignments
- Assisted professor in demonstrating arboricultural techniques during class field day

2017-2020 Research Assistant, University of Florida

- Manage multiple research projects and write articles pertaining to urban tree risk assessment

2016-2017 Branch Manager, SavATree

- Oversaw the general operations of a \$1.7 million branch for a high-end lawn care and tree maintenance company
- Managed a team of 10 employees (field crews, sales arborists, and administrative staff)

- Ensured that equipment was maintained and in compliance with state laws, ordered needed product and equipment, customer service, conducted reviews, interviews, and disciplinary actions
  - Responsible for a \$350,000 sales territory and in charge of roughly \$1.7 million in total branch sales
  - In charge of leading weekly safety, plant health care, lawn, and sales meetings
- 2016 (Spring) Teaching Assistant, Sensory Gardening, University of Florida
- Assisted with a variety of labs related to horticulture and human senses
  - Chaperoned students to the Tropical Plant International Expo in Fort Lauderdale
- 2014-2016 Research Assistant, University of Florida
- Managed multiple research projects and authored several articles pertaining to urban tree risk assessment
- 2014 (Spring) Chainsaw Safety Training, Western Illinois University
- Instructed undergraduate classes on chain saw safety, proper use, and appropriate personal protective equipment
- 2005-2014 Foreman, Wilson Landscaping & Nursery
- Planted, maintained, and harvested nursery stock
  - Specialized in construction of patios, ponds and retaining walls
  - Operated all heavy equipment/plowed snow during the winter months
- 2008-2010 Commercial Truck Driver, Miltran, Inc.
- Managed regular delivery of dairy products in Illinois
  - Maintained multiple certifications required to operate commercial-sized trucks
- 2004-2005 Ground Crew, A-Plus Tree Service
- Chipped brush, operated a chainsaw, ground stumps

## CERTIFICATIONS

- 2023-Present Florida ISA Pruning Prescription Qualification (PPQ)
- 2019-Present International Society of Arboriculture (ISA) Tree Risk Assessment Qualification (TRAQ)
- 2019-Present Quantified Tree Risk Assessment (QTRA) Certified
- 2017-Present Massachusetts Certified Arborist
- 2017-2018 Massachusetts Pesticide Applicators Certification/License
- 2015-Present Certified Arborist, International Society of Arboriculture (ISA)

## PEER-REVIEWED PUBLICATIONS

- Klein, R.W.**, Koeser, A.K., McBride, L., Hauer, R.J., Warner, L.A., Smiley, T.E., Munroe, M.A., and C. Harchick. 2023. Evaluating the Reproducibility of Tree Risk Assessment Ratings Across Commonly Used Methods. *Arboriculture & Urban Forestry*, 49(6).
- Koeser, A.K., **Klein, R.W.**, Hauer, R.J., Miesbauer, J.W., Freeman, Z., Harchick, C., and B. Kane. 2023. Defective or Just Different? Observed Storm Failure in Four Urban Tree Growth Patterns. *Forests*. 14(5), 988; <https://doi.org/10.3390/f14050988>
- Nelson, M.F., **Klein, R.W.**, Koeser, A.K., Landry, S.M., and B. Kane. 2022. The Impact of Visual Defects and Neighboring Trees on Wind-related Tree Failures. *Forests* 13, no. 7: 978. <https://doi.org/10.3390/f13070978> (Special issue cover article).
- Klein, R.W.**, McLean, D.C., Koeser, A.K., Hauer, R.J., Miesbauer, and A.B. Salisbury. 2022. Visual Estimation Accuracy of Tree Part Diameter and Fall Distance. *Journal of Forestry*, 2022, fvac012, <https://doi.org/10.1093/jofore/fvac012>
- Klein, R.W.**, Dutton, C.L., and A.K. Koeser. 2022. Development of a low-cost traffic counter for assessing likelihood of impact for tree risk assessment. *Arboricultural Journal*. DOI: 10.1080/03071375.2022.2030603
- Klein, R.W.**, Koeser, A.K., Hauer, R.J., Miesbauer, J.W., Hansen, G., Warner, L., Dale, A., and J. Watt. 2021. Assessing the consequences of tree failure. *Urban Forestry & Urban Greening*, 65, 127307. DOI: 10.1016/j.ufug.2021.127307

- Klein, R.W.**, Koeser, A.K., Hansen, G., Warner, L., Dale, A., and J. Watt. 2021. Professional Expertise and Its Role in Risk Assessment. *Arboriculture & Urban Forestry*, 47(6), 234-251. DOI: 10.48044/jauf.2021.021
- Koeser, A.K., Smiley, E.T., Hauer, R.J., Kane, B., **Klein, R.W.**, Landry, S.M., and M. Sherwood. 2020. Can Professionals Gauge Likelihood of Failure? - Insights from Tropical Storm Matthew. *Urban Forestry & Urban Greening*. 52:126701.
- Klein, R.W.**, Koeser, A.K., Kane, B., Landry, S.M., Shields, H., Lloyd, S., and G. Hansen. 2020. Evaluating the Likelihood of Tree Failure in Naples, Florida (United States) Following Hurricane Irma. *Forests*. 11(5):485.
- Klein, R.W.**, Hauer, R.J., Koeser, A.K., and B. Bleicher. 2019. Impacts of Wire Basket Retention and Removal on *Fraxinus americana* 'Autumn Purple' Growth Nine Years After Transplanting. *Arboriculture & Urban Forestry*. 45(3):79-84.
- Klein, R.W.**, Koeser, A.K., Hauer, R.J., Hansen, G., and F. Escobedo. 2019. Risk Assessment and Risk Perception of Trees: A Review of Literature Relating to Arboriculture and Urban Forestry. *Arboriculture & Urban Forestry*. 45(1):23-33.
- Koeser, A.K., Hauer, R.J., **Klein, R.W.**, and J.W. Miesbauer. 2017. Assessment of Likelihood of Failure Using Limited Visual, Basic, and Advanced Assessment Techniques. *Urban Forestry & Urban Greening*. 1(24):71-9.
- Klein, R.W.**, Koeser, A.K., Hauer, R.J., Hansen, G., and F. Escobedo. 2016. Relationship between Perceived and Actual Occupancy Rates in Urban Settings. *Urban Forestry & Urban Greening*. 1(19):194-201.
- Koeser, A.K., **Klein, R.W.**, Hasing, G., and R.J. Northrop. 2015. Factors driving professional and public urban tree risk perception. *Urban Forestry & Urban Greening*. 14(4):968-974.
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## EXTENSION (EDIS) PUBLICATIONS

- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Callicarpa japonica* Japanese Beautyberry. Shrub Fact Sheets. FPS92 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP092>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Calycanthus floridus* Carolina Allspice, Sweetshrub. Shrub Fact Sheets. FPS95 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP095>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Calyptanthus pallens* Spicewood, Pale Lidflower. Shrub Fact Sheets. FPS96 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP096>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Campsis radicans* Trumpet Creeper, Trumpet Vine. Shrub Fact Sheets. FPS99 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP099>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Canavalia maritima* Beach Bean, Bay Bean. Shrub Fact Sheets. FPS100 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP100>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Capparis cynophallophora* Jamaican Caper. Shrub Fact Sheets. FPS104 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP104>
- Gilman, E.F., Howe, T., **Klein, R.W.**, and G. Hansen. 2023. *Capsicum annuum* Ornamental Pepper. Shrub Fact Sheets. FPS105 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP105>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Carissa grandiflora* Natal Plum, Common Carissa. Shrub Fact Sheets. FPS107 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP107>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Carissa macrocarpa* Dwarf Natal Plum. Shrub Fact Sheets. FPS108 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP108>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Cassia bahamensis* Bahama Cassia. Shrub Fact Sheets. FPS111 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP111>
- Gilman, E.F., Howe, T., **Klein, R.W.**, and G. Hansen. 2023. *Catharanthus roseus* Periwinkle, Madagascar Periwinkle, Vinca. Shrub Fact Sheets. FPS112 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP112>

- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2023. *Cephalanthus occidentalis* Buttonbush. Shrub Fact Sheets. FPS117 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP117>
- Fishel, F.M., Dale, A.G., and **R.W. Klein**. 2022. Pesticide Injection and Drenching. Fact Sheet. PI274 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/PI274>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Asparagus densiflorus* 'Sprengeri' Sprengeri Asparagus Fern. Shrub Fact Sheets. FPS051 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP051>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Aspidistra elatior* Cast Iron Plant. Shrub Fact Sheets. FPS53 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP053>
- Gilman, E.F., Klein, R.W., and G. Hansen. 2022. *Aster* spp. Aster. Shrub Fact Sheets. FPS56 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP056>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Baleria cristata*: Crested Philippine Violet. Shrub Fact Sheets. FPS60 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP060>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Bauhinia punctata* Red Bauhinia. Shrub Fact Sheets. FPS61 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP061>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Begonia tuberhybrida* Hybrid Tuberous Begonia. Shrub Fact Sheets. FPS62 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP062>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Berberis julianae* Winterberry Barberry. Shrub Fact Sheets. FPS65 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP065>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Berberis thunbergii* Japanese Barberry. Shrub Fact Sheets. FPS66 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP066>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Brassica oleracea* 'White Peacock' White Peacock Flowering Kale. Shrub Fact Sheets. FPS72 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP072>
- Gilman, E.F., Howe, T., **Klein, R.W.**, and G. Hansen. 2022. *Browallia speciosa* Browallia, Amethyst Flower. Shrub Fact Sheets. FPS75 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP075>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Brunfelsia grandiflora* Yesterday, Today, and Tomorrow. Shrub Fact Sheets. FPS77 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP077>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Buxus sempervirens* Common Boxwood. Shrub Fact Sheets. FPS80 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP080>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Caesalpinia mexicana* Mexican Caesalpinia. Shrub Fact Sheets. FPS82 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP082>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Caladium X Hortulanum* Caladium. Shrub Fact Sheets. FPS83 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP083>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Calamagrostis arundinacea* Reed Grass. Shrub Fact Sheets. FPS85 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP085>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Calathea makoyana* Peacock Plant. Shrub Fact Sheets. FPS86 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP086>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2022. *Callicarpa America* American Beautyberry. Shrub Fact Sheets. FPS90 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/publication/FP090>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2022. *Guaiaecum sanctum*: Lignum Vitae. Southern Trees Fact Sheets. ENH445 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st286>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2019. *Citharexylum spinosum*: Fiddlewood. Shrub Facts Sheets. FPS130. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp130>



- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Acacia auriculiformis*: Earleaf acacia. Southern Trees Fact Sheets. ENH163. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st004>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Acer floridanum*: Florida maple. Southern Trees Fact Sheets. ENH166. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st007>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Acer negundo*: Boxelder. Southern Trees Fact Sheets. ENH180. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/st020>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Acer rubrum*: Red maple. Southern Trees Fact Sheets. ENH200. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st041>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Acer saccharinum*: Silver maple. Southern Trees Fact Sheets. ENH207. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st048>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Aesculus pavia*: Red buckeye. Southern Trees Fact Sheets. FP294. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/st064>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Araucaria heterophylla*: Norfolk Island-pine. Southern Trees Fact Sheets. ENH242. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st083>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Baccharis halimifolia*: Saltbush. Shrubs Sheets. FPS58. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp058>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Bauhinia variegata*: Orchid tree. Southern Trees Fact Sheets. ENH251. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/st092>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Beaucarnea recurvata*: Ponytail palm. Southern Trees Fact Sheets. ENH252. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st093>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Betula nigra*: River birch. Southern Trees Fact Sheets. ENH253. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st094>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Bischofia javanica*: Bishopwood. Southern Trees Fact Sheets. ENH259. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st100>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Bursera simaruba*: Gumbo limbo. Southern Trees Fact Sheets. ENH263. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st104>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Caesalpinia granadillo*: Bridalveil tree. Southern Trees Fact Sheets. ENH265. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. (<http://edis.ifas.ufl.edu/st106>)
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Callistemon viminalis*: Weeping Bottlebrush. Southern Trees Fact Sheets. ENH270 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st111>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Canella winterana*: Cinnamon bark. Shrubs Fact Sheets. FPS101. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/fp101>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Carica papaya*: Papaya. Shrubs Fact Sheets. FPS106. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp106>

- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Carpinus caroliniana*: American hornbeam. Southern Trees Fact Sheets. ENH279. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st120>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Carya glabra*: Pignut hickory. Southern Trees Fact Sheets. ENH280. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st121>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Carya illinoensis*: Pecan. Southern Trees Fact Sheets. ENH281. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st122>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Caryota mitis*: Fishtail palm. Southern Trees Fact Sheets. ENH283. Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st124>
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- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Pongamia pinnata*: Pongam. Southern Trees Fact Sheets. ENH657 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st498>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Prunus angustifolia*: Chickasaw plum. Southern Trees Fact Sheets. ENH663 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st504>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Prunus caroliniana*: Cherry-laurel. Southern Trees Fact Sheets. ENH664 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st505>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Prunus serotina*: Black cherry. Southern Trees Fact Sheets. ENH675 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st516>

- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Psidium cattleianum*: Strawberry guava. Southern Trees Fact Sheets. ENH687 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st529>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Pyrus calleryana* 'Bradford': 'Bradford' callery pear. Southern Trees Fact Sheets. ENH695 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st537>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Quercus alba*: White oak. Southern Trees Fact Sheets. ENH699 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st541>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Quercus austrina*: Bluff oak. Southern Trees Fact Sheets. ENH700 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st542>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Quercus falcata*: Southern red oak. Southern Trees Fact Sheets. ENH704 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st546>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Quercus laurifolia*: Laurel oak. Southern Trees Fact Sheets. ENH707 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st549>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Quercus nigra*: Water oak. Southern Trees Fact Sheets. ENH711 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st553>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Quercus shumardii*: Shumard oak. Southern Trees Fact Sheets. ENH719 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st561>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Quercus virginiana*: Southern live oak. Southern Trees Fact Sheets. ENH722 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st564>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Ravenala madagascariensis*: Traveler's-tree. Southern Trees Fact Sheets. ENH723 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st565>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Rhizophora mangle*: Red mangrove. Shrubs Fact Sheets. FPS502 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp502>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Salix babylonica*: Weeping willow. Southern Trees Fact Sheets. ENH734 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st576>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Sambucus nigra* ssp. canadensis: Elderberry. Southern Trees Fact Sheets. ENH736 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st578>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Schefflera actinophylla*: Schefflera. Southern Trees Fact Sheets. ENH743 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st585>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Simarouba glauca*: Paradise-tree. Southern Trees Fact Sheets. ENH748 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st590>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Spathodea campanulata*: African tuliptree. Southern Trees Fact Sheets. ENH758 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st600>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Sphaeropteris cooperi*: Australian tree fern. Shrub Fact Sheets. FPS557 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp557>

- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Swietenia mahagoni*: Mahogany. Southern Trees Fact Sheets. ENH766 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st608>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Tabebuia chrysotricha*: Golden Trumpet Tree. Southern Trees Fact Sheets. ENH772 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st614>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Tabebuia heterophylla*: Pink trumpet tree. Southern Trees Fact Sheets. ENH774 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <https://edis.ifas.ufl.edu/st616>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Tamarindus indica*: Tamarind. Southern Trees Fact Sheets. ENH776 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st618>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Taxodium ascendens*: Pondcypress. Southern Trees Fact Sheets. ENH777 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st619>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Taxodium distichum*: Baldcypress. Southern Trees Fact Sheets. ENH778 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st620>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Tecoma stans*: Yellow elder. Southern Trees Fact Sheets. ENH783 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st625>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Terminalia buceras*: Black olive. Southern Trees Fact Sheets. ENH261 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st102>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Terminalia catappa*: West Indian-almond. Southern Trees Fact Sheets. ENH784 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st626>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Thrinax morrisii*: Key Thatch Palm. Southern Trees Fact Sheets. ENH786 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st628>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Tibouchina urvilleana*: Princess flower. Southern Trees Fact Sheets. ENH791 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st633>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Triadica sebifera*: Chinese tallow tree. Southern Trees Fact Sheets. ENH741 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st583>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Ulmus alata*: Winged elm. Southern Trees Fact Sheets. ENH805 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st648>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Ulmus americana*: American elm. Southern Trees Fact Sheets. ENH806 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st649>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Ulmus parvifolia*: Chinese elm. Southern Trees Fact Sheets. ENH809 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st652>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Vachellia farnesiana*: Sweet acacia. Southern Trees Fact Sheets. ENH164 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st005>
- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Viburnum obovatum*: Walter's viburnum. Shrubs Fact Sheets. FPS604 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp604>



- Gilman, E.F., Watson, D.G., **Klein, R.W.**, Koeser, A.K., Hilbert, D.R., and D.C. Mclean. 2018. *Viburnum odoratissimum* var. *awabuki*: Awabuki sweet viburnum. Southern Trees Fact Sheets. ENH817 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/st660>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Abelia x grandiflora*: Glossy Abelia. Shrubs Fact Sheets. FPS001 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp001>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Abelia x grandiflora* 'Edward Goucher': Edward Goucher Glossy Abelia. Shrubs Fact Sheets. FPS002 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp002>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Abelia x grandiflora* 'Sherwoodii': Sherwoodii Glossy Abelia. Shrubs Fact Sheets. FPS003 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp003>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Acalypha hispida*: Chenille Plant. Shrubs Fact Sheets. FPS004 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp004>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Acalypha pendula*: Dwarf Chenille Plant. Shrubs Fact Sheets. FPS005 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp005>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Acalypha amentacea* subsp. *wilkesiana*: Copperleaf. Shrubs Fact Sheets. FPS006 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp006>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Acer japonicum* 'Vitifolium': Vitifolium Fullmoon Maple. Shrubs Fact Sheets. FPS008 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp008>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Acer palmatum* 'Bloodgood': Bloodgood Japanese Maple. Shrubs Fact Sheets. FPS009 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp009>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Adiantum* spp.: Maidenhair Fern. Shrubs Fact Sheets. FPS013 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp013>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Aechmea blanchetiana*: Bromeliad. Shrubs Fact Sheets. FPS014 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp014>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Aechmea distichantha*: Bromeliad. Shrubs Fact Sheets. FPS015 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp015>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Aechmea fasciata*: Silver Vase. Shrubs Fact Sheets. FPS016 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp016>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Aesculus parviflora*: Bottlebrush Buckeye. Shrubs Fact Sheets. FPS17 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp017>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Agapanthus orientalis*: Agapanthus, African Lily, Lily of the Nile. Shrubs Fact Sheets. FPS18 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp018>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Agave americana* 'Marginata': Variegated Century Plant. Shrubs Fact Sheets. FPS20 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp020>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Agave angustifolia*: Century Plant, Variegated Caribbean Agave. Shrubs Fact Sheets. FPS21 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp021>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Agave attenuate*: Spineless Century Plant. Shrubs Fact Sheets. FPS22 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp022>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Aglaonema modestum*: Chinese Evergreen. FPS25 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp025>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Ajuga reptans*: Common Bugle, Bugleweed, Carpet Bugleweed. FPS26 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp026>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Allamanda bolivianensis*: Bolivian Allamanda. FPS28 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp028>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Allamanda violacea*: Purple Allamanda. FPS32 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp032>

- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Alocasia* spp.: Elephant's Ear. FPS33 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp033>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Ananas comosus*: Pineapple. FPS039 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp039>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Ananas comosus* 'Variegatus': Variegated Pineapple. FPS41 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp041>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Anthurium andraeanum*: Tailflower, Flamingo Flower. FPS42 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp042>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Antirrhinum majus*: Snapdragon. FPS44 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp044>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Aptenia cordifolia*: Baby Sunrose. FPS47 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp047>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Ardisia escallonioides*: Marlberry. FPS48 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp048>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Asclepias curassavica*: Butterfly Weed, Milkweed, Silkweed. FPS49 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp049>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Asclepias tuberosa*: Butterflyweed, Indian Paintbrush. Shrubs Fact Sheets. FPS050 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp050>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Asparagus densiflorus* 'Sprengeri': Sprengeri Asparagus Fern. Shrubs Fact Sheets. FPS051 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp051>
- Gilman, E.F., **Klein, R.W.**, and G. Hansen. 2018. *Asparagus densiflorus* 'Myers': Myers Asparagus Fern. Shrubs Fact Sheets. FPS52 Gainesville: University of Florida, Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/fp052>
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## TRADE PUBLICATIONS

- Klein, R.W.** Professionalism and the Assessment of Consequences of Tree Failure. Student 360°: Reflections from the ISA 2020 Conference. Arboricultural Research and Education Academy (AREA) Newsletter March 2021, Volume 16, Issue 1.
- Hilbert, D.R., **Klein, R.W.**, Koeser, A.K., Hauer, R.J., and McLean, D.C. 2019. 15 Years of TREE Fund Research Grant Program. Arborist News. 28(6):32-35.
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## INVITED PRESENTATIONS

- 2023 **Klein, R.W.** Basic Tree Functions - Tree Crown Structure & Architecture. Arboriculture Short Course: An Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. UF/IFAS Orange County Extension Center, Orlando, FL, May 16, 2023. (166 attendees).
- 2023 **Klein, R.W.** Tree Root System Management: from Seed to Maturity. Arboriculture Short Course: An Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. UF/IFAS Orange County Extension Center, Orlando, FL, May 16, 2023. (166 attendees).
- 2023 **Klein, R.W.** Young Tree & Mature Tree Pruning. Arboriculture Short Course: An Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. UF/IFAS Orange County Extension Center, Orlando, FL, May 16, 2023. (166 attendees).
- 2023 **Klein, R.W.** How Trees Respond to Injury & Stress. Arboriculture Short Course: An Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. UF/IFAS Orange County Extension Center, Orlando, FL, May 16, 2023. (166 attendees).

- 2023 **Klein, R.W.** Research Introduction. Agent and Specialist Collaboration Enhancement - Lightning Round Presentations. UF/IFAS Extension Symposium. Gainesville, FL, May 11, 2023.
- 2023 **Klein, R.W.** Arboriculture Crash Course and Tree Risk Assessment Basics (Outdoor instruction). US Forest Service and UC Davis. Davis, CA, May 8 and 9, 2023. (7 attendees).
- 2023 **Klein, R.W.** Post-fire Tree Risk Assessment Protocol for Western Urban Forests. US Forest Service and UC Davis. Davis, CA, May 8, 2023. (7 attendees).
- 2023 **Klein, R.W.** Wire Baskets: To Remove or Not to Remove, or Does it Even Matter? Arborversity: The electives of Arboriculture. Florida Chapter of the International Society of Arboriculture. Clearwater, FL, April 7, 2023. (46 attendees).
- 2023 **Klein, R.W.** Coming Soon to a Computer Near You, the Florida Tree Selector Website. Arborversity: The electives of Arboriculture. Florida Chapter of the International Society of Arboriculture. Clearwater, FL, April 7, 2023. (46 attendees).
- 2023 **Klein, R.W.** Wire Baskets: To Remove or Not to Remove, or Does it Even Matter? Arborversity: The electives of Arboriculture. Florida Chapter of the International Society of Arboriculture. Pompano Beach, FL, April 5, 2023. (73 attendees).
- 2023 **Klein, R.W.** Coming Soon to a Computer Near You, the Florida Tree Selector Website. Arborversity: The electives of Arboriculture. Florida Chapter of the International Society of Arboriculture. Pompano Beach, FL, April 5, 2023. (73 attendees).
- 2023 **Klein, R.W.** Tree Risk Assessment: A Crash Course Using the ISA TRAQ Method. University of Florida, FOR 4090c Urban Forestry: Guest lecturer. Gainesville, Florida, March 28, 2023. (14 attendees).
- 2023 **Klein, R.W.** Arboricultural Decision-Making: Trees and Risk, People and Perceptions. South Florida Arboriculture and Landscape Professional Webinar Series - Florida Tree Power Hour. Virtual, March 16, 2023. (7 attendees).
- 2023 **Klein, R.W.** Evaluating the Components of Tree Risk Assessment Methods. International Society of Arboriculture Ontario (ISAO). London, Ontario, Canada, February 23, 2023. (750 attendees).
- 2023 **Klein, R.W.** The Influence of Risk Perception & Arboricultural Professionalism on Decisions Regarding Tree Risk. International Society of Arboriculture Ontario (ISAO). London, Ontario, Canada, February 23, 2023. (750 attendees).
- 2023 **Klein, R.W.** Tree Risk, Natural Disasters, and Arboricultural Opportunities. ENH Faculty Seminar Series. Gainesville, FL, January 16, 2023 (25 attendees).
- 2022 **Klein, R.W.** Research Overview on Tree Spacing and Irrigation Technology. Trees On the GO!! An FNGLA Educational Experience. Stewart Tree Service, Inc., Brooksville, FL, December 2, 2022. (148 attendees – talk was given 3 times).
- 2022 **Klein, R.W.** Tree Quality Research Overview. Trees On the GO!! An FNGLA Educational Experience. Stewart Tree Service, Inc., Brooksville, FL, December 2, 2022. (148 attendees – talk was given 3 times).
- 2022 **Klein, R.W.** Redesigning Our Urban Forests for Future Climate Change. Society of Municipal Arborist (SMA) Annual Conference. Seattle, WA, November 14-15, 2022. (127 attendees).
- 2022 **Klein, R.W.** Arboriculture Lab Research Overview. Bloom & Grow Garden Club. Gainesville, FL, October 21, 2022. (30 attendees).
- 2022 **Klein, R.W.** Trees and Wind, What Master Gardener Volunteers Need to Know. Master Gardener Volunteer Advanced Training Conference. Kissimmee, FL October 17, 2022. (140 attendees).
- 2022 **Klein, R.W.** It's all About the Roots and Proper Tree Planting. UF/IFAS Florida-Friendly Landscaping Webinar Series. Virtual, October 11, 2022. (155 participants).
- 2022 **Klein, R.W.** Preparing for Future Storms. Hurricanes and Trees Workshop. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, September 23, 2022. (92 attendees).
- 2022 **Klein, R.W.** Factors that Lead to Wind-Induced Tree Failures. Hurricanes and Trees Workshop. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, September 23, 2022. (92 attendees).
- 2022 **Klein, R.W.** An Overview of Wind and Trees. Hurricanes and Trees Workshop. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, September 23, 2022. (92 attendees).
- 2022 **Klein, R.W.** Preparing for Future Storms. Hurricanes and Trees Workshop. Florida Chapter of the International Society of Arboriculture. UF-IFAS Orange County Extension Center, Orlando, FL, September 21, 2022. (101 attendees).
- 2022 **Klein, R.W.** Factors that Lead to Wind-Induced Tree Failures. Hurricanes and Trees Workshop. Florida Chapter of the International Society of Arboriculture. UF-IFAS Orange County Extension Center, Orlando, FL, September 21, 2022. (101 attendees).

- 2022 **Klein, R.W.** An Overview of Wind and Trees. Hurricanes and Trees Workshop. Florida Chapter of the International Society of Arboriculture. UF-IFAS Orange County Extension Center, Orlando, FL, September 21, 2022. (101 attendees).
- 2022 **Klein, R.W.** Moving Towards More Rational & Repeatable Tree Risk Assessments: Comparing Commonly Used Tree Risk Assessment Methods. Trees In the City Virtual Symposium. Virtual, September 29, 2022. (60 attendees).
- 2022 **Klein, R.W.** Moving Towards More Rational & Repeatable Tree Risk Assessments: Comparing Commonly Used Tree Risk Assessment Methods. International Society of Arboriculture (ISA) Annual Conference. Malmö, Sweden, September 11-14, 2022. (800 attendees).
- 2022 **Klein, R.W.** Maintaining Landscape Trees - Planting, Pruning, & Other Common Cultural Practices. UF/IFAS Seminole County Extension Virtual Palms and Trees Workshop. (Virtual), August 12, 2022. (85 attendees).
- 2022 **Klein, R.W.,** Castro, D.C., Cohen, H., Goodiel, Y.A., Leonard-Mularz, M., Mayer, H., Orfanedes, M.S., and J.W. Roberts. Tackling Barriers to Developing Climate-smart Extension for Green Industry Professionals (Poster). Urban Tree Diversity 4. St. Petersburg, FL, August 2-3, 2022. (200 attendees).
- 2022 **Klein, R.W.** Assessing Tree Risk & Minimizing Future Failures. UF/IFAS Florida Friendly Landscaping In-service Training. North Florida REC, Quincy, FL, June 30, 2022. (10 attendees).
- 2022 **Klein, R.W.** Updating the Florida Tree Selector Website & UF/IFAS Tree Fact Sheets. Trees Florida Conference. Breakout Session. Palm Coast, Florida, June 21, 2022. (448 attendees).
- 2022 **Klein, R.W.** Trees, Risk & People: Decision-Making Based on Perceptions vs. Reality. Trees Florida Conference. Breakout Session. Palm Coast, Florida, June 21, 2022. (448 attendees).
- 2022 **Klein, R.W.** Updating the Florida Tree Selector Website & UF/IFAS Tree Fact Sheets. Trees Florida Conference. Breakout Session. Palm Coast, Florida, June 21, 2022. (448 attendees).
- 2022 **Klein, R.W.** Assessing Tree Risk & Minimizing Future Failures. UF/IFAS Florida Friendly Landscaping In-service Training. Fort Lauderdale REC, Fort Lauderdale, FL June 20, 2022. (18 attendees).
- 2022 **Klein, R.W.** Assessing Tree Risk & Minimizing Future Failures. UF/IFAS Florida Friendly Landscaping In-service Training. Mid-Florida REC, Apopka, FL, June 10, 2022. (14 attendees). 2022
- 2022 **Klein, R.W.** Moving Towards More Rational & Repeatable Tree Risk Assessments. CLUE Urban Landscape Summit. Gainesville, FL, April 19, 2022. (85 attendees).
- 2022 **Klein, R.W.** Basic Tree Functions - Tree Crown Structure & Architecture. Arboriculture Short Course: an Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, April 13, 2022. (100 attendees).
- 2022 **Klein, R.W.** Tree Root System Management: from Seed to Maturity. Arboriculture Short Course: an Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, April 13, 2022. (100 attendees).
- 2022 **Klein, R.W.** Young Tree & Mature Tree Pruning. Arboriculture Short Course: an Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, April 13, 2022. (100 attendees).
- 2022 **Klein, R.W.** Outdoor Pruning Session. Arboriculture Short Course: an Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, April 13, 2022. (100 attendees).
- 2022 **Klein, R.W.** How Trees Respond to Injury & Stress. Arboriculture Short Course: an Entry-Level 2-Day Tree School. Florida Chapter of the International Society of Arboriculture. GCREC, Wimauma, Florida, April 13, 2022. (100 attendees).
- 2022 **Klein, R.W.** Tree Risk Assessment: A Crash Course Using the ISA TRAQ Method. University of Florida, FOR 4090c Urban Forestry: Guest lecturer. Gainesville, Florida, March 22, 2022. (12 attendees).
- 2022 **Klein, R.W.** What Makes a Good Presentation, Conference submission, or Poster? – HOS6905 Scientific Writing & Communicating in Arboriculture & Urban Forestry: Guest lecturer. Virtual, March 18, 2022. (40 attendees).
- 2022 **Klein, R.W.** Trees and People: The influence of Risk Perception and Professionalism on the Decision-Making Process. Florida Urban Forestry Council: Virtual Urban Forestry Institute. March 10-11, 2022. (96 attendees).
- 2022 **Klein, R.W.** Intro to Proper Pruning and Planting Techniques and an Overview of the Arboriculture Teaching Lab's Current Research. University of Florida, ORH 5817C Advanced Florida Native Landscaping: Guest lecturer. Gainesville, Florida, February 2, 2022. (14 attendees).
- 2021 **Klein, R.W.,** Orwat, M., Tancig, M., Williams, L., and Figart, L. Panel Discussion: Selecting and Maintaining Trees. Gardening in the Panhandle: LIVE! Webinar Series. December 9, 2021. (24 attendees, 17 social media questions)
- 2021 **Klein, R.W.** Putting it all together - Advancing your risk assessments. Florida ISA Presents: Advanced Tree Risk Assessment - An Indoor and Outdoor Seminar. GCREC, Wimauma, Florida, December 2, 2021. (70 attendees).

- 2021 **Klein, R.W.** Hands on Tree Decay Detection Activity – Occupancy Assessments and the Use of Traffic Counters. Florida ISA Presents: Advanced Tree Risk Assessment - An Indoor and Outdoor Seminar. GREC, Wimauma, Florida, December 2, 2021. (70 attendees).
- 2021 **Klein, R.W.** Hands on Tree Decay Detection Activity – A Tutorial on Resistance Recording Drills. Florida ISA Presents: Advanced Tree Risk Assessment - An Indoor and Outdoor Seminar. GREC, Wimauma, Florida, December 2, 2021. (70 attendees).
- 2021 **Klein, R.W.** Putting it all together - Advancing your risk assessments. Florida ISA Presents: Advanced Tree Risk Assessment - An Indoor and Outdoor Seminar. Pompano Beach, Florida, November 30, 2021. (60 attendees).
- 2021 **Klein, R.W.** Hands on Tree Decay Detection Activity – Occupancy Assessments and the Use of Traffic Counters. Florida ISA Presents: Advanced Tree Risk Assessment - An Indoor and Outdoor Seminar. Pompano Beach, Florida, November 30, 2021. (60 attendees).
- 2021 **Klein, R.W.** Selecting, Training, and Maintaining Trees to Survive Wind Events. Landscape Inspectors Association of Florida (LIAF) Annual Seminar. Virtual, November 16, 2021. (105 attendees).
- 2021 **Klein, R.W.** Climate Change & its Impact on Urban Trees. Texas Tree Conference. Waco, Texas, September 30, 2021. (491 attendees).
- 2021 **Klein, R.W.** Risk Perception: Its Impact on Tree Risk Assessment and the Influence of Industry Professionalism. Texas Tree Conference. Waco, Texas, September 30, 2021. (491 attendees).
- 2021 **Klein, R.W.** (Keynote Speaker). Trees and Wind: Hurricanes, Tree Survivability, and a More Resilient Urban Landscape. Texas Tree Conference. Waco, Texas, September 30, 2021. (491 attendees).
- 2021 **Klein, R.W.** Trees & Hurricanes: The Good, the Bad, & the Ugly. Seminole County Monthly Master Gardeners Meeting. Virtual, August 26, 2021. (41 attendees).
- 2021 **Klein, R.W.** Tree Health Principals – A Review of Proper Planting and Pruning Techniques. Alachua County Thriving Landscapes - License Renewal Workshop. UF/IFAS Extension, Alachua County. Gainesville, Florida, July 23, 2021. (19 attendees).
- 2021 **Klein, R.W.** Hands on Planting and Pruning Practicum. Thriving Landscapes - License Renewal Workshop. UF/IFAS Extension, Alachua County. Gainesville, Florida, July 23, 2021. (19 attendees).
- 2021 **Klein, R.W.** Trees & Risk: The Accuracy of Assessments & the Influence of Perception. Master Gardner Webinar series: Lunch “N” Learn. Virtual, July 14, 2021. (64 attendees).
- 2021 **Klein, R.W.** The Damaging Effects of Hurricanes on Urban Tree Survivability. Florida Friendly Landscape Professional Landscape Webinar Series. Virtual, July 13, 2021. (139 attendees).
- 2021 **Klein, R.W.** Tree Planting BMP’s: Site Selection to Establishment in the Landscape. Trees Florida Conference. Breakout Session. Palm Coast, Florida, June 8, 2021. (335 attendees).
- 2021 **Klein, R.W.** Research Introduction – Klein Arboriculture Lab Plans. Trees Florida Conference. Breakout Session. Palm Coast, Florida, June 8, 2021. (335 attendees).
- 2021 **Klein, R.W.** Research Introduction – Klein Arboriculture Lab Plans. Trees Florida Conference. Breakout Session. Palm Coast, Florida, June 9, 2021. (335 attendees).
- 2021 **Klein, R.W.** Trees, Risk, and the Urban Forests of the Future. Landscape Inspectors Association of Florida (LIAF) Meeting: Educational Session. Virtual, April 29, 2021. (59 attendees).
- 2021 **Klein, R.W.** Helping Trees Succeed in the Urban Landscape. Florida Master Gardner Volunteers Webinar. Virtual, April 22, 2021. (350 attendees).
- 2021 **Klein, R.W.** Tree Risk Assessment and Future Solutions Through Research and Sustainable Urban Design. Western Illinois University, FOR 407 Urban Forest Management; Guest Lecturer. Virtual, April 1, 2021. (5 attendees).
- 2021 **Klein, R.W.** Tree Risk Assessment: A Crash Course Using the ISA TRAQ Method. University of Florida, FOR 4090c Urban Forestry: Guest lecturer. Gainesville, Florida, March 23, 2021. (10 attendees).
- 2021 **Klein, R.W.** Tree Risk Assessment and its Impact on Future Approaches to Urban Resource Management. Florida Urban Forestry Council: Urban Forestry Institute – Future Urban Forests: Balance for Success. Virtual, March 11-12, 2021. (76 attendees).
- 2021 **Klein, R.W.** Tree Risk Assessment and the Impact of Risk Perception. North Carolina Urban Forestry Council: Urban Forestry Webinar Series. Virtual, February 24, 2021. (85 attendees).
- 2021 **Klein, R.W.** and Koeser, A.K. Poster: Assessing Tree Failures in Severe Winds – Implications for Crown Defects. Institute of Chartered Foresters: Trees, People and the Built Environment 4 - International Urban Trees Research Conference. Virtual, February 3-4, 2021. (536 attendees).

- 2021 **Klein, R.W.** Methods for Properly Pruning Shade Trees, Palms, Shrubs, and Crepe Myrtle. National Garden Clubs: Environmental, Gardening and Landscape Design Schools - Pruning Techniques. Virtual, January 27, 2021. (73 attendees).
- 2020 **Klein, R.W.**, Koeser, A.K., Hauer, R.J., Miesbauer, J.W., Hansen, G., Warner, L., Dale, A., and J. Watt. Professionalism and the Assessment of Consequences of Tree Failure. International Society of Arboriculture International Conference: AREA Student Presentation. Virtual, December 15-17, 2020. (2,452 attendees).
- 2020 **Klein, R.W.** Selecting Hurricane Resilient Trees for the Urban Landscape. City of Gainesville Urban Forestry Workshop Webinar. Virtual, December 4, 2020. (33 attendees).
- 2020 **Klein, R.W.**, Koeser, A.K., Shields, H., Lloyd, S., Hansen, G., Kane, B., and Landry, S. Evaluating the Likelihood of Tree Failure in Naples Florida Following Hurricane Irma. IUFRO 2020 Wind and Trees Conference. Rotorua, New Zealand, February 24-28, 2020.
- 2019 **Klein, R.W.**, Koeser, A.K., Shields, H., and S. Lloyd. Poster: Evaluating the Likelihood of Tree Failure in Naples Florida Following Hurricane Irma. The 53rd Arboricultural Association National Amenity Conference: Crown & Canopy Management. Exeter, United Kingdom, September 8-11, 2019.
- 2019 **Klein, R.W.**, Koeser, A.K., Hauer, R.J., and J.W. Miesbauer. Poster: Gauging Arborists' Ability to Assess the Consequences of Tree Failure. International Society of Arboriculture International Conference. Knoxville, Tennessee, August 11-14, 2019.
- 2019 **Klein, R.W.** Low Cost-Tech and No Tech Solutions for Assessing Likelihood of Impact for Tree Risk Assessment. University of Florida, FOR 4090c Urban Forestry: Guest lecturer. Gainesville, Florida, March 26, 2019.
- 2018 **Klein, R.W.** and Koeser, A.K. (Keynote Speaker). Tree Planting BMP's and the Impacts of Wire Basket Removal on Tree Survival and Stability. Wisconsin Arborist Association Fall Conference. West Bend, Wisconsin, November 1, 2018.
- 2018 **Klein, R.W.** and Koeser, A.K. Professional Landscape Management School. Remove or Retain? Impacts of Wire Basket Removal on Tree Survival and Stability. University of Southern Indiana. Evansville, Indiana, January 25, 2018.
- 2016 **Klein, R.W.**, Koeser, A.K., Hauer, R.J., Hansen, G., and F. Escobedo. Relationship between Perceived and Actual Occupancy Rates in Urban Settings. International Society of Arboriculture International Conference: AREA Student Presentation. Fort Worth, Texas, August 17, 2016.
- 2016 **Klein, R.W.**, Koeser, A.K., Hauer, R.J., Hansen, G., and F. Escobedo (Poster Presentation Winner). Urban Landscape Summit: Poster - Relationship between Perceived and Actual Occupancy Rates in Urban Settings. Gainesville, Florida, March 23, 2016.
- 2015 **Klein, R.W.** Tree Risk Assessments – Time to Test the Tools. Survey: Relationship between Perceived and Actual Occupancy Rates in Urban Settings. Wisconsin Arborist Association Fall Conference. Milwaukee, Wisconsin, October 15, 2015.
- 2015 **Klein, R.W.** Perceived and Actual Occupancy Rates for Urban Settings. University of Florida, FOR 4090c Urban Forestry: Guest lecturer. Gainesville, Florida, March 12, 2015.
- 2014 **Klein, R.W.** Arbor day presentation and Tree Planting. Lincoln Elementary School: Guest Speaker. Princeton, Illinois, April 25, 2014.

## CONTRIBUTED PRESENTATIONS

- 2023 Beck, H., **Klein, R.K.**, Sallin, T., and E. Stubs. Poster. AI in Agriculture: Innovation and Discovery to Equitably meet Producer Needs and Perceptions. Digital Collection for Urban Horticulture using Artificial Intelligence and Virtual Reality. USDA NIFA 2023 AI Conference. Orlando, FL, April 17-19, 2023.
- 2022 Roberts, J., Marois, E., **Klein, R.W.** Extending extension: Poster: Communicating a career in county extension to a class of UF/IFAS CALS students. Extension Professional Associations of Florida Conference (EPAF) Annual Meeting. Panama City Beach, FL. August 28-31, 2022.
- 2022 Goodiel, Y., Castro, D., Cohen, H., **Klein, R.W.**, Leonard-Mularz, M., Mayer, H., Orfanedes, M., Roberts, J. 2022. Poster: Designing climate-smart Extension for the commercial horticulture industry in Florida. Extension Professionals Association of Florida (EPAF) Annual Meeting, Panama City Beach. August 28-31, 2022.

- 2022 Roberts, J., Marois, E., **Klein, R.W.** Poster: Extending extension as a prospective employer: Communicating a career in county extension to a class of UF/IFAS CALS students. Florida Association of County Agricultural Agents. West Palm Beach, FL. May 27-28, 2022.
- 2015 Koeser, A.K., R.J. Hauer, J. Miesbauer, and **R.W. Klein.** Workshop: Tree Risk Assessments – Time to Test the Tools. Wisconsin Arborist Association Fall Conference. Milwaukee, Wisconsin, October 15, 2015.
- 2015 Koeser, A.K. and **R.W. Klein.** (Keynote Address) Tree Risk Assessments – Methods and Approaches. Wisconsin Arborist Association Fall Conference. Milwaukee, Wisconsin, October 15, 2015.
- 2015 Koeser, A.K., McLean, D.C., **Klein, R.W.**, Hasing, G., and R.J. Northrop. Poster: Urban Tree Risk: A Comparison of Professional and Public Perceptions. International Society of Arboriculture Annual Conference. Orlando, Florida, August 11, 2015.
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## ACTIVITIES

- 2023-Present Gainesville Tree Board of Appeals. 2023-Present. (Member)
- Hear/make decisions on tree appeals that are brought to the board
- 2022-Present Florida Chapter of the International Society of Arboriculture (ISA) Board of Directors – Educator Rep.
- 2022-Present UF/IFAS Climate-smart Working Group and Credential Program (Member)
- Collaborate with several UF/IFAS Extension Agents and Faculty to develop climate-smart programming for Green Industry professionals in Florida
- 2022-Present UF Urban Forestry Extension Council (Member)
- Collaborative extension effort amongst UF Faculty and Extension Agents to guide, share, and develop urban forestry programming in Florida
- 2022-Present President, Arboricultural Research and Education Academy (AREA)
- Coordinate the support for research and educational efforts in arboriculture and urban forestry
- 2022-Present Florida Chapter of the International Society of Arboriculture Pruning Credential Committee (Member)
- Review and develop training material, outdoor activities, and test questions for a state-wide pruning credential
- 2022-Present International Society of Arboriculture Tree Risk Assessment Best Management Practices (BMP) Review Committee. (Member)
- Review, edit, and update the 3<sup>rd</sup>. edition of the industry guiding document
- 2022-Present International Society of Arboriculture (ISA) Conference Program Committee. (Vice Chair)
- Review presentation abstracts/applications for the 2022 conference and select the speakers for the program
- 2022-Present UF Lakes, Vegetation and Landscaping Committee (Member)
- Review development activities on the University of Florida campus that may affect landscaping or natural areas
- 2022-Present Florida Chapter of the International Society of Arboriculture Student & Early Career Arborist Task Force (Member)
- Coordinate educational events for individuals considering joining the industry or are relative new
- 2021-2022 President-Elect, Arboricultural Research and Education Academy (AREA)
- Coordinate the support for research and educational efforts in arboriculture and urban forestry
- 2021-Present Faculty Coordinator for the UF Student Chapter of the International Society of Arboriculture (ISA)
- Organize and host monthly meetings, lineup guest speakers from different walks of the industry (e.g., municipal, academic, consulting, utility), and inform students of opportunities within the industry (e.g., scholarships, jobs, conferences, calls for presentations)
- 2021-Present Urban Forestry Community of Practice Science and Research Sub-Committee (Member)
- Guide the activities and direction of the pursuit of furthering urban forestry and arboricultural research
- 2021-Present Urban Forestry Community of Practice Diversity, Equity, and Inclusion Sub-Committee (Member)
- Address deficiencies and create solutions to DEI issues in urban forestry and arboricultural

2021-Present	Urban Forestry Community of Practice (Member) <ul style="list-style-type: none"> <li>Discuss opportunities for urban forestry and arboricultural research, extension, and education throughout Florida</li> </ul>
2021-Present	Gainesville Tree Advisory board (Member) <ul style="list-style-type: none"> <li>Discuss current tree related issues within the city and make recommendations based on the consensus of the board</li> </ul>
2021-2022	International Society of Arboriculture (ISA) Conference Program Committee. (Member - AREA Liaison) <ul style="list-style-type: none"> <li>Review presentation abstracts/applications for the 2022 conference and select the speakers for the program</li> </ul>
2021	ANSI A300 Tree Risk Assessment Standard Subcommittee (Member) <ul style="list-style-type: none"> <li>Review and update the tree care industry standard for tree risk assessment</li> </ul>
2020-2021	Vice President, Arboricultural Research and Education Academy (AREA) <ul style="list-style-type: none"> <li>Coordinate the support for research and educational efforts in arboriculture and urban forestry</li> </ul>
2020-2021	North American Colleges and Teachers of Agriculture (NACTA) (Member)
2020-Present	Florida Chapter of the International Society of Arboriculture (ISA) Educational Board (Member) <ul style="list-style-type: none"> <li>Develop industry training and education events throughout Florida related to arboriculture and urban forestry</li> </ul>
2019-2020	Gainesville Tree Advisory board (Student Member) <ul style="list-style-type: none"> <li>Discuss current tree related issues within the city and make recommendations based on the consensus of the board</li> <li>Inform the community on current tree related issues through outreach programs</li> </ul>
2018-2019	University of Florida Student Chapter of the International Society of Arboriculture (ISA) <ul style="list-style-type: none"> <li>Attend meetings related relevant arboricultural issues</li> </ul>
2015-2019	Volunteer, Howard T. Odum Florida Springs Institute <ul style="list-style-type: none"> <li>Partake in citizen-based science data collection of water quality and ecological parameters</li> <li>Take part in spring's related fundraisers and outreach events</li> <li>Assist in maintenance of the Institute's Environmental Center</li> </ul>
2015-2016	American Water Resources Association, University of Florida Chapter <ul style="list-style-type: none"> <li>Participated in a variety of water related environmental clean-ups</li> <li>Attended informational sessions regarding water resource related projects and technologies within the state of Florida</li> </ul>
2013-2014	Forestry Club, Western Illinois University <ul style="list-style-type: none"> <li>Trained students in arboriculture and resident tree care and maintenance</li> <li>Performed residential tree care and maintenance</li> </ul>
2013-2014	Agricultural Council, Western Illinois University <ul style="list-style-type: none"> <li>Planned fundraisers and promoted departmental awareness of sustainable agricultural practices</li> <li>Reported the activities of the Forestry club</li> </ul>
2013-2014	Study Abroad in India, Navdanya Organic Research Farm <ul style="list-style-type: none"> <li>Participated in a variety of activities related to organic farming including plant harvesting and quality control, plant care, and pest control</li> </ul>

## AWARDS

2020	AREA Student Research Grant (\$750)
2020	Jasper Joiner Travel Scholarship (\$300)
Spring 2019	Florida Chapter of the ISA John P. White Memorial Scholarship (\$1,250)
2019	University of Florida Gulf Coast Research and Education Center Travel Grant (\$500)
2019	College of Agricultural and Life Sciences Edgar A. Martin Scholarship (\$1,500)
2019	ISA Student Ambassador - ISA Annual International Conference (\$550)
2019	National Horticulture Foundation/FNGLA James H. Davis Memorial Scholarship (\$2,000)



2018	College of Agricultural and Life Sciences William C. and Bertha M. Cornett Fellowship (\$1,500)
2016	ISA and AREA Student Travel Grant-Award Winner (\$500)
2016	Urban Landscape Summit Poster Presentation Winner (\$1,000)
Fall 2015	Florida Chapter of the ISA John P. White Memorial Scholarship (\$500)
Spring 2015	Florida Chapter of the ISA John P. White Memorial Scholarship (\$500)
2015	Garden Club of America Zone VI Fellowship in Urban Forestry (\$5,000)
Spring 2014	Bartlett Arboriculture Scholarship (\$1,500)
Spring 2014	Dean's List Western Illinois University
Fall 2013	Dean's List, Western Illinois University
Fall 2013	Davey Arbor Grant (\$1,000)
Fall 2013	John Reeves Scholarship Recipient (\$800)
Fall 2013	Bartlett Arboriculture Scholarship (\$1,500)
Spring 2013	Bartlett Arboriculture Scholarship (\$1,500)
Spring 2013	Dean's List, Western Illinois University
Fall 2012	Dean's List, Western Illinois University

## GRANTS

2023-2024	Evaluating the Impacts of Climate Change on Urban Tree Performance and Survival. Center for Landscape Use Efficiency (CLUE) Graduate Student Support \$25,000.00
2022-2023	Climate Smart Landscaping. New Technologies for Agricultural Extension, Extension Foundation – USDA NIFA \$5,000.00
2022-2023	Post-fire Tree Risk Assessment Protocol for Western Urban Forests. USDA Forest Service. \$65,000.00
2022-2023	Urban Forestry Stewardship: Teaching Volunteers How to Structurally Prune Young Trees. Center for Landscape Use Efficiency (CLUE) Graduate Student Support \$21,333.33
2022	Updating the "Florida Tree Selector Website" and Associated IFAS Southern Trees Fact Sheets (EDIS). Florida Chapter of the International Society of Arboriculture (ISA) Research Grant. \$60,000.00
2021-2022	Urban Forestry Stewardship: Teaching Volunteers How to Structurally Prune Young Trees. Center for Landscape Use Efficiency (CLUE) Graduate Student Support \$21,333.33
2021	Urban Forest Hurricane Extension Update Project. USDA, Florida Forest Service \$53,067.00
2019	Tree Risk Assessment Training: QTRA – Bath, UK. CLCE: Graduate Student Funding \$4,271.33
2018-2019	Trees and Natural Disasters: Improving Estimates of Likelihood of Impact, Likelihood of Failure, and Consequences of Failure in Professional Risk Assessments. Early Career Scientist Seed Grant: Graduate Student Funding \$48,488 (Assisted with as a graduate student)
2015-2016	Urban Tree Risk Assessment: Perceptions, Reality, and Reliability: Perceived and Actual Occupancy Rates for Urban Settings and Impact of Assessor on Risk Assessment Method Outcomes. CLCE: Graduate Student Funding \$10,000 (Assisted with as a graduate student)
2014-2015	Urban Tree Risk Assessment: Perceptions, Reality, and Reliability: Perceived and Actual Occupancy Rates for Urban Settings and Impact of Assessor on Risk Assessment Method Outcomes. CLCE: Graduate Student Funding \$10,000 (Assisted with as a graduate student)
2014-2016	Urban Tree Risk Assessment: Perceptions, Reality, and Reliability: Perceived and Actual Occupancy Rates for Urban Settings and Impact of Assessor on Risk Assessment Method Outcomes. Tree Fund: Jack Kimmel International Grant \$9,996 (Assisted with as a graduate student)
2014-2016	Urban Tree Risk Assessment: Perceptions, Reality, and Reliability: Perceived and Actual Occupancy Rates for Urban Settings and Impact of Assessor on Risk Assessment Method Outcomes. Florida ISA \$5,000 (Assisted with as a graduate student)

## PROFESSIONAL MEMBERSHIPS

2017-Present	Massachusetts Arborist Association
2015-Present	Arboricultural Research and Education Academy (AREA)
2015-Present	Florida Chapter of the International Society of Arboriculture (ISA)
2015-Present	International Society of Arboriculture (ISA)
2015-Present	Society of Commercial Arboriculture
2015-Present	Society of Municipal Arborists
2015-Present	Utility Arborist Association

**Name:** Smith, Erick

**Address:** 915 NW 17th Avenue, Gainesville, FL, 32609

**Email:** erick@kestreleco.com

**Board Name:** Tree Advisory Board

**Please confirm Full Name, including middle initial, prefix, and physical mailing address:**

Erick Smith

915 NW 17th Avenue

Gainesville, FL 32609

**In what city district do you live?:**

District 4

**Employer:**

Kestrel Ecological Services

**Phone Number:**

352-380-0648

**Occupation:**

Forest Ecologist

**Why are you interested in serving on this board? (Please answer separately for each board you are applying to.):**

I believe I can serve the City of Gainesville and steward our urban forest by being an active member of the Tree Advisory Board. I enjoy the camaraderie of the meetings and staying informed about what's happening in our city.

**How many terms have you served on this board previously?:**

4

**Disclaimer:**

**Under Florida law, all information, including e-mail, written letters, documents and phone messages, sent to the Gainesville City Commission are subject to Public Records law. This includes the sender's e-mail address, home address or phone number if shown in the message, the content of the message and any associated attachments to the mail.**

**Do you claim any exemption to public record disclosure pursuant to FLA. STAT. Section 119?:**

No

**Have you been removed from any advisory board for attendance, behaviour or another reason?:**

No

**What is your gender identity?:**

Male

**Optional: Ethnicity:**

Caucasian/Non-Hispanic

**Are you a City of Gainesville Employee?:**

No

**Are you a City of Gainesville Intern?:**

No

**Are you currently on a City Advisory Board/Committee?:**

Yes

**If yes, which City Advisory Board/Committee?:**

Tree Advisory Board

**Some of the boards and committees appointed by the City Commission are required to comply with Chapter 112, Florida Statutes, the Financial Disclosure Law. If applicable, would you be willing to file the required financial statement?:**

Yes

**Do you affirm that your personal and business (if applicable) affairs within the City of Gainesville and Alachua County are in substantial compliance with all city and county regulatory and taxing authorities rules and regulations? \*:**

Yes

**Do you agree with the following statement? Appointees to advisory board/committees are required to attend scheduled meetings as specified in the "Advisory Board Handbook." \*:**

Yes

**Do you agree with the following statement? I understand that this completed application is the property of the City of Gainesville, is subject to public record requests and I hereby certify that the statements made on this application are true and correct. :**

Yes

**Time of Submission:** 12/28/23 2:24:44 PM