PING YU

1109 Experiment Street, Urban Center, Griffin, GA, 30223 (770)-233-5558, pingyu@uga.edu

CURRICULUM VITAE (Aug. 2022)

PING YU Ph.D.

1109 Experiment Street, Urban Center,

Griffin, GA, 30223 Email: pingyu@uga.edu Tell: 770-233-5558

I. Education

Ph.D. Horticulture, Aug. 2021

Texas A&M University

Dissertation Biochar as a way to increase environmental friendliness for potted

plants production and disease suppression

M.S. Horticulture, Jun. 2017

Nanjing Forestry University, China

Thesis The evaluation and breeding of Ginkgo in Beijing main areas

B.S. Horticulture, Jun. 2014

Sichuan Normal University, China

Graduation Project Landscape design of the Qingcheng Street Garden

II. Research Experience

1. Assistant Professor/Ornamental Specialist

Jul. 2022 -

Horticulture Department University of Georgia, Griffin, GA. Responsibilities:

- Generate and deliver related ornamental research through peer reviewed publications, grant writing, and conference presentations
- Outreach in all aspects affecting the green industry with close collaboration with Georgia Nursery and Landscape Association (GGIA) to provide educational programming and industry support
- Serve as the faculty liaison to the Georgia Nursery and Landscape Association (GGIA) and the Center for Applied Nursery Research (CANR)
- Teach HORT 4630-6630 "Nursery Management"

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2. **Post-Doctoral Associate**

Sep. 2021- Jun. 2022

Supervisor: Dr. S. Christopher Marble

Department of Environmental Horticulture,

University of Florida, Mid-Florida Research and Education

Center, Apopka, FL.

Responsibilities:

- Generate and deliver related weed science research through peer reviewed publications, grant writing, and conference presentations
- Manage greenhouse, field, and lab complex, including greenhouse and field research plot establishing
- Create and conduct core research programs including weed management in nursery production and invasive crops

3. Graduate Research/Teaching Assistant, Lab Manager

2017 - 2021

Advisor: Dr. Mengmeng Gu

Department of Horticultural Sciences,

Texas A&M University, College Station, TX.

Responsibilities:

- Manage greenhouse, field, and lab complex, including student worker training, greenhouse crops production, and field research plot establishing
- Create and conduct core research programs including soilless system production, fertilizer reduction studies, plant physiology, plant pathogen, crape myrtle breeding, sparkleberry propagation, mint production, IR4 chemical trial
- Expand related research and conversation initiatives through extension events and publications
- Generate and deliver related research through peer reviewed publications, grant writing, and conference presentations

4. Graduate Research Assistant

2014 - 2017

Advisor: Dr. Zunling Zhu

Department of Architecture and Landscape,

Nanjing Forestry University, Nanjing, China

Responsibilities:

- Manage lab and field complex, including *Gingko biloba*, *Carpinus betulus* production and evolution, woody seeds germination
- Initiate Gingko biloba new variety application
- Promote university landscape program through international communication slides
- Generate and deliver related research through peer reviewed publications

5. Group Research Project Leader

2013

Department of Life Science,

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Sichuan Normal University, Chengdu, China Responsibilities:

- Initiate lettuce soilless production project
- Manage group members
- Generate project report

III. Professional Outputs

A. Grants

- 1. **P. Yu**, S. C. Marble, 2021. Using Mulches to Reduce Preemergence Herbicide Leaching and Improve Weed Control for Ornamental Productions, National Horticultural Foundation, (Co-PI, \$25, 356.97, Funded)
- 2. **P. Yu**, S. C. Marble, 2021. Incorporating sustainable weed control management into container nursery productions, Southern Region Sustainable Agriculture Research and Education (SARE) Program, On-Farm Grant (Co-PI, \$18,676.03, Not funded)
- 3. **P. Yu**, M. Gu, Sep. 2020. Texas A&M University Internal Fund, Open Access to Knowledge Fund (OAK Fund, \$1,380.20, Funded)
- 4. **P. Yu**, M. Gu, Jan. 2020. Texas A&M University Internal Fund, Open Access to Knowledge Fund (OAK Fund, \$1,027.29, Funded)
- 5. **P. Yu**, M. Gu, Nov. 2019. Texas A&M University Internal Fund, Open Access to Knowledge Fund (OAK Fund, \$1,507.80, Funded)
- 6. **P. Yu**, M. Gu, 2020. Reducing Phosphorus leaching in nursery production with biochar, Center for Applied Nursery Research (CANR) Grant Program (\$2,500.00, not funded)
- 7. **P. Yu**, M. Gu, 2020. Exploring the benefits of biochar on biological agents for root-borne diseases, Southern Region Sustainable Agriculture Research and Education (SARE) Program, Graduate Student Grant (\$15,451.00, not funded)
- 8. **P. Yu**, M. Gu, 2019. Exploring benefits of biochar on biological control for rootborne diseases of tomato and pepper in Texas, Southern Region Sustainable Agriculture Research and Education (SARE) Program, Graduate Student Grant (\$16,304.00, not funded)

B. Refereed Journal Articles

- 1. **P. Yu**, S.C. Marble. Improving Pennsylvania bittercress (*Cardamine pensylvanica*) weed control efficacy with mulch and herbicide in containers, HortTechnology. (accepted)
- 2. **P. Yu**, S.C. Marble. Herbicide selection for controlling Tahitian bridal veil (*Gibasis pellucida*), Invasive Plant Science and Management. (under review)
- 3. D. Li, **P. Yu**, H. Zhang, M. Song, Q. Sheng, Y. Chen, L. Cao, Z. Zhu. 2022. Study on photosynthetic characteristics of three early germinating ginkgo cultivars,

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- Molecular Plant Breeding, (2022), online available https://kns.cnki.net/kcms/detail/46.1068.s.20220120.1915.005.html. (in Chinese)
- 4. **P. Yu**, S. C. Marble. 2021. Practices in nursery weed control -- review and metaanalysis. Frontiers in Plant Science, 12: 807736. https://doi: 10.3389/fpls.2021.807736
- 5. L. Lin, **P. Yu** (co-first author), Q. Li, M. Gu. 2021. Gibberellic acid and cold stratification improve sparkleberry (*Vaccinium arboreum*) germination under different collection times, Scientia Horticulturae, 291 (2022), 110606. https://doi.org/10.1016/j.scienta.2021.110606.
- 6. H. Zhang, **P. Yu**, M. Song, D. Li, Q. Sheng, F. Cao, and Z. Zhu. 2021. Leaf color changes and photosynthetic characteristics of five superior late-deciduous *Ginkgo biloba* cultivars, HortScience, 56 (11), 1416-1422. https://doi.org/10.21273/HORTSCI16065-21.
- 7. Q. Li, **P. Yu**, J. Lai, M. Gu. 2020. Micropropagation of the potential blueberry rootstock—*Vaccinium arboreum* through axillary shoot proliferation, Scientia Horticulturae, 280 (2021), 109908. https://doi.org/10.1016/j.scienta.2021.109908.
- 8. **P. Yu**, Q. Li, L. Huang, K. Qin, G. Niu, M. Gu. 2020. The effects of mixed hardwood biochar, mycorrhizae, and fertigation on container tomato and pepper plant growth, Sustainability, 2020, 12, 7072. https://doi.org/10.3390/su12177072.
- 9. J. Yan, **P. Yu (co-first author)**, C. Liu, Q. Li, M. Gu. 2020. Replacing peat moss with mixed hardwood biochar as container substrates to produce five types of mint (*Mentha spp.*), Industrial Crops and Products, 2020, 155. https://doi.org/10.1016/j.indcrop.2020.112820.
- 10. L. Huang, M. Gu, **P. Yu,** C. Zhou, X. Liu. 2020. Biochar and vermicompost amendments affect substrate properties and plant growth of basil and tomato, Agronomy, 2020, 10(2), 224. https://doi.org/10.3390/agronomy10020224.
- 11. **P. Yu**, Q. Li, I. Lima. P. White. M. Gu. 2020. Effects of mixed hardwood and sugarcane biochar as bark-based substrate substitutes on container plants production and nutrient leaching, Agronomy, 2020, 10(2), 156. https://doi.org/10.3390/agronomy10020156.
- 12. **P. Yu**, Q. Li, M. Gu, G. Niu. 2019. Mixed hardwood and sugarcane bagasse biochar as potting mix components for container tomato and basil seedling production, Appl. Sci. 2019, 9(21), 4713. https://doi.org/10.3390/app9214713.
- 13. L. Huang, **P. Yu**, M. Gu. 2019. Evaluation of Biochar and Compost Mixes as Substitutes to a Commercial Seed Propagation Mix, Appl. Sci. 2019, *9*(20), 4394. https://doi.org/10.3390/app9204394.
- 14. Q. Sheng, X. Fang, Z. Zhu, W. Xiao, Z. Wang, G. Ding, L. Zhao, Y. Li, **P. Yu**, Z. Ding, Q. Shu. 2016. Seasonal variation of pheophorbide and flavonoid in different organs of two *Carpinus* species and its correlation with immunosuppressive activity, In Vitro Cellular & Developmental Biology—Animal, 2016, 52 (6), 654-661. https://link.springer.com/article/10.1007/s11626-016-0041-1.

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- 15. **P. Yu**, Z. Zhu, L. Cheng. 2016. Effects of different media on growth and physiological characteristics of one-year old *Carpinus betulus*, Central South University of Forestry & Technology, 2016 (09):44-50. (in Chinese)
- 16. **P. Yu**, L. Cheng, Z. Zhu. 2016. Effects of different substrates on photosynthetic diurnal changes of *Carpinus betulus*, Journal of Agricultural university of HeBei. 2016 (03):60-65. (in Chinese)
- 17. Z. Zhu, **P. Yu**, Long. Cheng. 2016. Selection of Efficient Low-cost Substrate of *Carpinus betulus*, Northern Horticulture, 2016 (05):95-98. (in Chinese)
- 18. Y. Wu, **P. Yu**, Z. Zhu. 2016. Physiological and biochemical characteristics of *Carpinus turczaninowii* leaves with different colors in spring, Journal of Northwest University (Natural Science Edition). 2016 (05):120-126. (in Chinese)

C. Paper Under Preparation

- 1. **P. Yu**, S.C. Marble. Fertilizer placement affecting Pentas plant growth, nutrient leaching, and Pennsylvania bittercress (*Cardamine pensylvanica*) weed control. (in draft)
- 2. **P. Yu**, S.C. Marble. Herbicide comparison for controlling Tahitian bridal veil (*Gibasis pellucida*) and Small-leaf Spiderwort (*Tradescantia fluminensis*), Invasive Plant Science and Management. (in draft)
- 3. **P. Yu**, M. Gu. Biochar replacing peat moss as a container substrate to increase environmental friendliness for potted plants production—A review. (ready to submit)
- 4. **P. Yu**, K. Ong, J. Ueckert, K. Crosby, T. Gentry, M. Gu. Biochar and *Trichoderma* reduced pepper blight caused by *Phytophthora capsici* in container. (ready to submit)
- 5. **P. Yu**, K. Ong, J. Ueckert, M. Gu. Biochar and *Trichoderma* reduced poinsettia root rot caused by *Pythium aphanidermatum* in container. (ready to submit)
- 6. **P. Yu**, M. Gu. Reducing phosphorus leaching in greenhouse production with biochar by using mint and rosemary as model plants. (in draft)
- 7. **P. Yu,** C. Zhou, M. Gu. Biochar enhancing petunia and zinnia growth in greenhouse. (in draft)
- 8. C. Zhou, **P. Yu (co-first author),** M. Gu. Biochar enhancing vinca and marigold growth in greenhouse. (in draft)

D. Conference Presentations & Proceedings

1. **P. Yu**, S. C. Marble. 2022. Improving Pennsylvania bittercress (*Cardamine pensylvanica*) weed control efficacy with mulch and herbicide in containers. Southern Region American Society for Horticulture Sciences (SR-ASHS) annual meeting, Feb. 11-13, 2022, New Orleans, LA. (**Oral**)

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- 2. **P. Yu**, K. Ong, J. Ueckert, K. Crosby, T. Gentry, M. Gu. 2021. Biochar and Trichoderma reduced pepper blight caused by *Phytophthora capsici* in container. American Society for Horticulture Sciences (ASHS) annual meeting, Aug. 5-9, 2021, Denver, CO. (**Poster**) HortScience 56 (9S), 252.
- 3. **P. Yu**, K. Ong, J. Ueckert, M. Gu. 2021. Biochar and *Trichoderma* reduced poinsettia root rot caused by *Pythium aphanidermatum* in container. American Society for Horticulture Sciences (ASHS) annual meeting, Aug. 5-9, 2021, Denver, CO. (**Oral**) HortScience 56 (9S), 28-29.
- 4. Q. Li, R. Xie, B. Wu, **P. Yu**, M. Gu. 2020. Effects of shade on the population dynamics of crape myrtle bark scale. American Society for Horticulture Sciences (ASHS) annual meeting, Aug. 9, 2020. (**Poster**) HortScience, 55 (9S), 221-222.
- 5. **P. Yu**, Q. Li, M. Gu. 2019. Pine and Sugarcane Biochar as Container Media Amendments for Seedlings Production of Tomato (*Solanum copersicum*) and Basil (*Ocimum basilicum*), American Society for Horticulture Sciences (ASHS) annual meeting, July 21-25, 2019, Las Vegas, NV. (**Poster**) HortScience, 54 (9S), 85-86.
- 6. **P. Yu**, M. Gu. 2019. A 'black' future for horticulture? Biochar as amendment for plant production, American Society for Horticulture Sciences (ASHS) annual meeting, Jul. 21-25, 2019, Las Vegas, NV. (**Oral, Ignite**)
- 7. **P. Yu**, L. Huang, M. Gu. 2019. The effects of biochar, mycorrhizae and fertilizer on tomato and pepper plants in container, American Society for Horticulture Sciences (ASHS) annual meeting, July 21-25, 2019, Las Vegas, NV. (**Oral**) HortScience, 54 (9S), 193-193.
- 8. Huang, L., **P. Yu**, and M. Gu. 2017. Effect of chicken manure compost and high percentage of biochar on container-grown basil (*Ocimum basilicum*) production. The International Plant Propagators' Society-Southern Region (IPPS-SR) annual meeting, October 28-31, 2017, Dallas, TX. (**Poster**) Acta Hort. 1212, 351-356.

IV. Honors & Awards

1.	ASHS Graduate Student Scholars Award (Doctoral Level, \$1,500)	2021
	American Society for Horticultural Sciences (1/yr)	
2.	ASHS Graduate Student Spotlight	2021
	American Society for Horticultural Sciences	
3.	ASHS Outstanding Graduate Student	2021
	American Society for Horticultural Sciences (10/yr)	
4.	Dissertation Fellowship (\$22,200)	2020
	Texas A&M University (15/yr)	
5.	Louise B. Belsterling Scholarship (\$6,500)	2020
	Texas A&M University (2/2yr)	
6.	American Floral Endowment Scholarship (\$2,000, \$3,000)	2019, 2020
	Texas A&M University	
7.	Aggie Ring Scholarship (\$500)	2020
	The Association of Former Students, Texas A&M University	

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8.	Horticultural Science Poster Symposium 3rd Place, Texas A&M University	2020
9.	Charlie Parkerson Student Research Competition (\$500)	2019
	2 nd Place Oral Presentation, International Plant Propagators' Association-	
10.	Southern Region (IPPS-SR) ASHS Travel Awards (\$500)	2021
10.	American Society for Horticultural Sciences	2021
11.	IPPS Travel Award (\$500)	2019
12.	International Plant Propagators' Association-Southern Region (IPPS-SR) OGAPs Travel Award (\$500)	2019
12.	Office of Graduate and Professional Studies (OGAPs)	2019
	Texas A&M University	
13.	Departmental Travel Award (\$500)	2019
14.	Department of Horticulture Sciences, Texas A&M University Excellence Fellowship (\$27,496)	2017
14.	College of Agriculture and Life Sciences, Texas A&M University	2017
	eadership Professional Organizations	
1.	Commercial Horticulture (CHEX), ASHS:	2022 - Present
	President-elect	
2.	International HORT Issues and Networking (IHIN), ASHS: Secretary	2021- Present
3.	Commercial Horticulture (CHEX), ASHS:	2021- 2022
	Secretary	
<u>B. S</u>	tudent Organizations	
1.	Horticultural Graduate Council	2018 - 2020
	Dept. of Horticultural Sciences, Texas A&M University	
2.	Secretary Horticultural Graduate Council,	2017- 2018
	Dept. of Horticultural Sciences, Texas A&M University Vice-President	
<u>C. U</u>	Indergraduate Mentoring	
1.	Jackson Whatley, Undergraduate Research Assistant, Currently, Texas A&M University Undergraduate	2021

Osaze Chimeka-Tisdale, Undergraduate Research Assistant,

Currently, Texas A&M University Undergraduate

2021

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3.	Siyuan Zhao, Undergraduate Research Assistant,	2020
	Currently, Texas A&M University Master Student	
4.	Yilin Zhu, Undergraduate Research Assistant,	2019 - 2020
	Currently, Texas A&M University Master Student	
5.	Katie Clark, Undergraduate Research Assistant,	2019 - 2020
	Currently, Texas A&M University Undergraduate	
6.	Sydney Maulsby, Undergraduate Research Assistant,	2019 - 2020
	Currently, Texas A&M University Undergraduate	
7.	Daniel Liu, Undergraduate Research Assistant,	2019
	Currently, Texas A&M University Undergraduate	
8.	Eduardo Martinez, Undergraduate Research Assistant,	2017 - 2018
	Currently, Greenleaf Nursery Planting Supervisor	

VI. Teaching Activities

A. Teaching Certificate

Academic for Future Faculty

Texas A&M University

- Two-semester long professional development program
- Work with a faculty member as a mentor (Dr. David Reed)
- Complete 4 required seminars including:
 Learning Outcomes & the Course Development Cycle
 Philosophy of Teaching Statement
 Syllabus Design
 Curriculum Vitae
- Perform 2 classroom observations
- Attend 4 elective seminars
- Reflection on all the seminars
- Write teaching philosophy, CV, and syllabus

B. Teaching Experience

1.	Texas A&M University, College Station, TX	Fall 2019 -
	Graduate Teaching Assistant	Spring 2020
	Course: HORT 203: Floral Design	
	<u>Class size: 35</u> (16/lab)	
2.	Jiangsu Special Educational College, Nanjing, China	Fall 2015 -
	Part-time instructor	Spring 2016
	Course: Plant Physiology, Plant Landscape, Landscape Dendrology	
	Class size: 32	

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C. Guest Lectures

1.	HOS6932, "Literature Review"	Spring 2022
	Cultivation, Extraction, and application of Medicinal plants and their	
	Bioactive Compounds, University of Florida (Class size: 8)	
2.	HORT 435, "Horticultural principles 1"	Fall 2020
	Urban Horticulture, Texas A&M University (Class size: 30)	
3.	HORT 435, "Horticultural principles 2"	Fall 2020
	Urban Horticulture, Texas A&M University (Class size: 30)	
4.	HORT 203, "Design Element: Proportion"	Spring 2020
	Floral Design, Texas A&M University (Class size: 70)	
5.	13407 Plant for Landscape, "Using Shrubs in Landscape Designs"	Spring 2015
	Nanjing Forestry University (Class size: 65)	

VII. Extension and Outreach

A. Extension Publications

- 1. **P. Yu**, E, Kraka, and S.C. Marble. 2022. Biology and Management of Johnsongrass (*Sorghum halepense*) in Ornamental Crop Production and Landscapes, UF/EDIS EP620/ENH1356, 4/2022.
- 2. M. Gu, and **P. Yu**. 2020. Ms. Margie Jenkins and what we learned at IPPS. TNLA GREEN Jan/Feb: 28-29.
- 3. **P. Yu**, and M. Gu. 2020. Using biochar as container substrates in horticulture production part 1: An introduction to biochar. TNLA GREEN May/Jun.: 24-25.
- 4. **P. Yu**, and M. Gu. 2020. Using biochar as container substrates in horticulture production part 2: The potential of biochar to replace peat moss as container substrate and its limitation. TNLA GREEN Jul/Aug.: 16-18.
- 5. **P. Yu**, and M. Gu. 2020. Using biochar as container substrates in horticulture production part 3: Physical and Chemical Properties, Guidelines for making the right biochar mix. TNLA Working for You. Sept. 18:15-17.
- 6. **P. Yu**, and M. Gu. 2020. Using biochar as container substrates in horticulture production. Part 4: Effects of biochar on plant growth. TNLA Working for You. Nov. 13: 8-9.
- 7. **P. Yu**, and M. Gu. Using biochar as container substrates in horticulture production. Part 5: Effects of biochar on plant health. (Under preparation)

B. Industry Presentations

1. **P. Yu**, K. Ong, K. Crosby, T. Gentry, M. Gu. 2021. Using poinsettia and pepper as model plants to investigate biochar and *Trichoderma* suppressing effects on plant diseases. International Plant Propagators' Society-Southern Region (IPPS-SR) annual meeting, Oct. 8, 2021, virtual. (**Oral**)

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- 2. **P. Yu**, L. Lin, Q. Li, M. Gu. 2020. Effect of gibberellic acid (GA₃) and cold stratification on Sparkleberry (*Vaccinium arboreum*) germination under different collection times. International Plant Propagators' Society-Southern Region (IPPS-SR) annual meeting, Oct. 14, 2020, virtual. (**Oral**)
- 3. **P. Yu**, M. Gu. 2020. Mixed hardwood biochar and biocontrol agent effects on poinsettia plant growth and *Pythium* suppression. National Floriculture Forum, Feb. 28-Mar. 1, Charlotte, NC. (**Oral**)
- 4. **P. Yu**, M. Gu and Q. Li. 2019. Hardwood and sugarcane biochar replacing bark-based substrate for container production of tomato (*Solanum copersicum*) and basil (*Ocimum basilicum*) plants. The International Plant Propagators' Society-Southern Region (IPPS-SR) annual meeting, Oct. 16-21, 2019, Baton Rouge, LA. (**Oral**)
- 5. **P. Yu**, L. Huang, Y. Guo, M. Gu, 2019 The effects of biochar incorporation on plant growth in container production. The International Plant Propagators' Society-Southern Region (IPPS-SR) annual meeting, Oct. 16-21, 2019, Baton Rouge, LA. (**Oral**)
- 6. Li, L., **P. Yu**, Gu, M. 2018. Anatomical traits related to blue leaf coloration of *Selaginella uncinata*. 30th Annual Texas Plant Protection Conference, Dec. 4-5, 2018, Bryan, TX. (**Poster**)
- 7. **P. Yu**, Qi. Li., M. Gu. 2018. The effect of peat on pH and plant development in biochar substrate. 30th Annual Texas Plant Protection Conference, Dec. 4-5, 2018, Bryan, TX. (**Poster**)
- 8. **P. Yu**, S. Yan, L. Huang and M. Gu. 2017. The effects of biochar, mycorrhizae and fertigation on tomato and pepper plants in container. 29th Annual Texas Plant Protection Conference Dec. 5-6, 2017, Bryan, TX. (**Poster**)

C. Industry Activities

1.	Georgia Green Industry Association, Winter Green	2022
	Special attendee	
2.	Florida Nursery, Growers and Landscape Association/EXPO	2021
	Attendee	
3.	Texas A&M University, AgriLife Extension Services	2019
	Co-organizer for Short Course /Workshop	
4.	Texas Nursery and Landscape Association Nursery/EXPO:	2018, 2019
	Moderator for education session	
	Volunteer for Parks and Patio workforce	
5.	Texas A&M AgriLife Extension:	2018, 2019
	Volunteer for Extension booth	

VIII. Professional Activities & Affiliations

A. Invited Reviewer

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1.	Invited Reviewer for Journals:	<u>Total (23)</u>
	• Scientific Report (1)	
	• HortScience (1)	
	• Journal of American Society for Horticulture Sciences (1)	
	• Agronomy (5)	
	• Biochar (2)	
	• Sustainability (2)	
	• Applied Science (1)	
	• Horticulturae (2)	
	• Agriculture (3)	
	• Journal of Environmental Management (1)	
	 Journal of Soil Science and Plant Nutrient (1) 	
	• Canadian Journal of Plant Science (1)	
	• International Journal of Environmental Research and Public Health (2)	
2.	Translation Reviewer	2019, 2020
	American Public Garden Association	
B. Vo	<u>lunteer</u>	
1.	ASHS Conference	2021
	Moderator for oral and poster sessions	
2.	American Floral Endowment Webinar	2021
	Moderator for Grower Pro webinar series	
C. M	embership of Organizations	
		2017 5
1.	American Society for Horticultural Sciences	2017 - Present
2.	American Hord	2020 - Present
3. 4.	American Floral Endowment/Young Professionals Council International Plant Propagators' Society-Southern Region	2018 - Present 2017 - Present
4.	international Frant Fropagators Society-Southern Region	2017 - FIESEIII