

CURRICULUM VITAE OF JARED BARNES, Ph.D.

Cultivating plants. Cultivating gardeners. Cultivating life.

Arthur Temple College of Forestry and Agriculture
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EDUCATION

Ph.D. 2013. Horticultural Science, North Carolina State University (NCSU).

Barnes, J. 2013. Quantifying the Factors that Influence Substrate pH. PhD Dissertation, North Carolina State University, Raleigh, NC. Summa cum laude, 4.0 GPA.

M.S. 2010. Horticultural Science, NCSU.

Barnes, J. 2010. Characterization of Nutrient Disorders in Floriculture Species. MS Thesis, North Carolina State University, Raleigh, NC. Summa cum laude, 4.0 GPA.

B.S. 2008. Biology, University of Tennessee at Martin. Summa cum laude, 4.0 GPA.

PROFESSIONAL EXPERIENCE

2014–Present	Assistant professor, Stephen F. Austin State University
2014	Post doc at NCSU; Raleigh, NC.
2008–2013	Graduate student/research and teaching assistant at NCSU; Raleigh, NC.
2008	Summer internship at The Scott Arboretum of Swarthmore College; Swarthmore, PA.

SUMMARY OF CAREER ACTIVITIES

Classes/Students Taught	9/589	Avg. Course/Lab Evaluation	4.59/4.61
8 Grants Funded	\$55,183	Referred Journal Articles	17
Master’s Students	2	Invited Speaker/Keynotes	42

RECENT CAREER HIGHLIGHTS

- Receiving two grants totaling \$21,683 for “Herbaceous species trials at Stephen F. Austin State University” from the Fred C. Gloeckner Foundation, Inc.
- Being named the Perennial Plant Association’s 2016 Young Professional of the Year
- Being named to GPN’s 2016 Class of 40 Under 40
- Presenting “BIG Perennials for a Shrinking World” to 600 attendees at the sold out Perennial Plant Conference in Swarthmore, PA.
- Receiving the 2015 Kenneth Post Award for “Statistical Model for Predicting Macronutrient Impacts on Container Substrate pH Over Time” in *HortScience* from the American Society of Horticultural Science Floriculture Working Group and Kenneth Post Foundation.

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I. TEACHING EXPERIENCE

A. Teaching Experience

Stephen F. Austin State University

100% Teaching Appointment. Numbers that follow course years indicate total number of students, cumulative course evaluation score out of 5, and cumulative lab score out of 5.

1. Crop Science (AGN 110). 2014–2017.	414	4.66	4.66
2. Landscape Plant Materials (HRT 324). 2014–2017.	49	4.63	4.74
3. Plant Propagation (HRT 416/516). 2014, 2016.	30	4.69	4.81
4. Herbaceous Plants (HRT 213). 2015, 2017.	26	4.56	4.80
5. Public Garden Management (HRT 518). 2015, 2017.	17	4.77	no lab
6. Fruit and Vegetable Management (HRT 212). 2015.	20	4.56	4.50
7. Plant Breeding (AGN 445). 2016.	14	4.49	no lab
8. Nursery Management (HRT 413). 2016.	13	4.35	4.16
9. Study Abroad: France (AGR 480/580). 2016.	6	5.00	no lab

B. Graduate Student Advising

1. Nov 2017. Committee member for Brittanie Barton, master's student.
2. Nov 2017. Committee member for Jade Duplechin, master's student.
3. June 2017. Graduate school representative for Hannah Angel, master's student.
4. Dec 2016–Dec 2017. Graduate chair for Seuk Hong, master's student.
5. Feb 2016. Graduate school representative for Amy Urbanovsky, master's student.
6. Jan 2016–Present. Committee member for Jheri-Lynn McSwain, doctoral student.
7. Aug 2015–Aug 2017. Graduate chair for Chanelle Angeny, master's student.
8. Aug 2014–Aug 2017. Committee member for Becca Burnett, master's student.

C. Club Advisor

1. Aug 2014–Present. SFA Horticulture Club advisor.

D. Invited Class Lecturer

1. Barnes, J. 2016. Keep Growing: Reflections and Current Directions of a UT Martin Graduate. University of Tennessee at Martin, Martin, TN. 54 attendees.
2. Barnes, J. 2013. Perspectives on Grad School. HS 290 Perspectives in Horticulture, Bryce Lane, NCSU.
3. Barnes, J. 2011. So, You Are Thinking about Grad School? HS 290, Perspectives in Horticulture, Bryce Lane, NCSU.
4. Barnes, J. 2009. How to Write a Scientific Paper. English 101, Susanna Klingenberg, NCSU.

E. Educational Excursions

1. SFA Horticulture Club Student Trip to Dallas and Waco. 7–9 Oct 2016. Dallas and Waco, TX. 9 students.
2. National Collegiate Landscape Competition. 16-18 March 2015. 2 students. Rene Bhattacharya, 1st place, \$1000 for the SFA Horticulture Club.
3. PLANET Student Career Days. 12–17 March 2015. Raleigh, NC. 3 students.

4. SFA Horticulture Club Student Trip to Dallas. 18 Oct 2014. Dallas, Texas. 8 students

F. Hosted Educational Events

1. An Edible Evening. Oct 2015. Hosted in conjunction with Fruit and Vegetable Production. 102 attendees.

G. Graduate School Teaching Experience

1. 2013. Teaching Locally, Engaging Globally: Increasing Undergraduates' Knowledge of the International Dimensions of Climate Change, Food Security, and Childhood Obesity grant.

2. 2013. HS 303 Ornamental Plant Identification I, Brian Jackson, NCSU, fall.

3. 2012. HS 100 Home Horticulture, Bryce Lane, NCSU, spring.

4. 2010. HS 301 Plant Propagation, Denny Werner, NCSU, fall.

5. 2010. HS 471 Tree and Grounds Maintenance, Barb Fair, NCSU, spring.

6. 2009. HS 411 Nursery Management, Helen Kraus, NCSU, fall.

II. PUBLICATIONS AND AUTHORSHIP

A. Peer-reviewed Journal Publications

1. Barnes, J., P. Nelson, D. Hesterberg, W. Shi, and B.E. Whipker. 2016. Journal of Plant Nutrition. Accepted, DOI 10.1080/01904167.2016.1143502 (available once published online).
2. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2016. Nutrient disorders of dianthus 'Bouquet Purple'. Journal of Plant Nutrition. Journal of Plant Nutrition, 39(13):1950–1957.
3. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2015. Characterization of nutrient disorders of *Abutilon x hybridum* 'Bella Yellow'. III Intl. Conf. and Exhibition on Soilless Culture. Acta Horticulturae, 1062:29–38.
4. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2015. Characterization of nutrient disorders of *Dahlia x hybrida* 'Maxi Morelia'. III Intl. Conf. and Exhibition on Soilless Culture. Acta Horticulturae, 1062:39–48.
5. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2015. Characterization of nutrient disorders of *Fuchsia x hybrida* 'Gartenmeister Bonstedt'. III Intl. Conf. and Exhibition on Soilless Culture. Acta Horticulturae, 1062:49–58.
6. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2015. Characterization of nutrient disorders of *Senecio cineraria* 'Silver Mist'. III Intl. Conf. and Exhibition on Soilless Culture. Acta Horticulturae, 1062:59–66.
7. Moody, E.P., J.M. Dole, and J. Barnes. 2014. Refining postharvest handling procedures increased cut rose vase life. HortTechnology, 24(6):676–685.
8. Barnes, J., P. Nelson, B. Whipker, D. Hesterberg, and W. Shi. 2014. Fertilizer formulation effect on pH of fallow versus planted container substrate. Intl. Symp. on Growing Media and Soilless Cultivation. Acta Horticulturae, 1034:465-469.
9. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2014. Characterization of nutrient disorders of *Gazania rigens* 'Daybreak White'. Intl. Symp. on Growing Media and Soilless Cultivation. Acta Horticulturae, 1034:459-464.
10. Barnes, J., B.E. Whipker, and I. McCall. 2013. Optimizing nitrogen rates for two cultivars of *Graziosa geraniums*. Intl. Symp. on Growing Media and Soilless Cultivation. Acta Horticulturae, 1034:471-476.
11. Barnes, J., P. Nelson, B.E. Whipker, D.A. Dickey, D. Hesterberg, and W. Shi. 2014. Statistical Model for Predicting Macronutrient Impacts on Container Substrate pH Over Time. HortScience, 49(2):207–214.
12. Barnes, J., B. Whipker, W. Buhler, and I. McCall. 2013. Greenhouse and landscape growth of tiger lily cultivars following flurprimidol preplant bulb soaks. HortTechnology, 23(6):820–822.
13. Barnes, J., B. Whipker, I. McCall, and J. Frantz. 2013. Characterization of nutrient disorders of *Gomphrena globosa* 'Las Vegas Purple'. Acta Horticulturae, 982:69–74.
14. Barnes, J., P. Nelson, K.Y. Jeong, W.C. Fonteno, B. Whipker, and J. Frantz. 2013. Impact of mature dairy manure compost and water content on wettability and bulk density in peat moss-perlite root substrate. Acta Horticulturae, 982:75–80.
15. Barnes, J., B. Whipker, I. McCall, and J. Frantz. 2012. Nutrient disorders of 'Evolution' mealy-cup sage. HortTechnology, 22:502–508.
16. Whipker, B., I. McCall, J. Barnes, W. Buhler, B. Krug, C. Currey, and R. Lopez. 2011. Flurprimidol pre-plant bulb soaks control growth of potted Lilioms. Acta Horticulturae, 900:79–87.

17. Barnes, J., B. Whipker, I. McCall, and J. Frantz. 2011. Characterization of nutrient disorders of *Lilium longiflorum* 'Nellie White' and *Lilium hybrid* 'Brunello'. *Acta Horticulturae*, 900:205–211.
18. Whipker, B., J. Barnes, I. McCall, J. Gibson, and H. Poole. 2011. Nitrogen concentration and form effect on leaf tissue concentration and lower leaf expansion of *Lilium longiflorum* 'Nellie White'. *Acta Horticulturae*, 900:125–132.
19. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2009. Characterization of nutrient disorders of *Primula acaulis* 'Danova Rose'. *Acta Horticulture*, 891:77–84.
20. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2009. Characterization of nutrient disorders of *Pericallis* × *hybrid* 'Jester Purple Blue'. *Acta Horticulture*, 891:67–76.

B. Grants

Awarded Total: \$55,183

1. Gloeckner
2. ORSP
3. Barnes, J. and A. Romig. 2017. GIS plant mapping system for the SFA Horticulture program. Requested \$19,972, **awarded \$0**.
4. Barnes, J. 2016. Ornamental designed plant communities at SFASU. Requested \$12032, **awarded \$0**.
5. Barnes, J. 2016. Herbaceous species trials at Stephen F. Austin State University. Fred C. Gloeckner Foundation, Inc. Requested \$9842; **awarded \$9842**.
6. Barnes, J. 2015. HRT 212 Service Learning Mini Grant. SFASU Student Affairs. Requested \$500; **awarded \$500**.
7. Barnes, J. 2015. Herbaceous species trials at Stephen F. Austin State University. Fred C. Gloeckner Foundation, Inc. Requested \$11,841; **awarded \$11,841**.
8. Barnes, J. 2014. Herbaceous Ornamental And Edible Plant Trials At Stephen F. Austin State University. J. Frank Schmidt Family Charitable Foundation. Requested \$14,151; **awarded \$0**.
9. Barnes, J. 2014. Herbaceous Ornamental and Edible Plant Trials at Stephen F. Austin State University. SFASU University Research Council Research Pilot Study grant. Requested \$3,000; **awarded \$3,000**.
10. Barnes, J., P. Nelson, and B. Whipker. 2013. Understanding the Substrate Root Environment: Quantifying the Factors Which Influence pH. Fred C. Gloeckner Foundation, Inc. Requested \$14,000; **awarded \$10,000**.
11. Barnes, J., P. Nelson, and B. Whipker. 2012. Understanding the Substrate Root Environment: Quantifying the Factors Which Influence pH. Fred C. Gloeckner Foundation, Inc. Requested \$14,000; **awarded \$10,000**.
12. Barnes, J., P. Nelson, and B. Whipker. 2011. Understanding the Substrate Root Environment: Quantifying the Factors Which Influence pH. Fred C. Gloeckner Foundation, Inc. Requested \$14,785; **awarded \$10,000**.

C. Proceedings Articles

1. Barnes, J., B.E. Whipker, W. Buhler, and I. McCall. 2009. *Osteospermum* Growth Control with Paclobutrazol Substrate Drenches. PGRSA Proceedings, 96–99.
2. Barnes, J., B.E. Whipker, W. Buhler, and I. McCall. Flurprimidol pre-plant bulb soaks control growth of *Lilium lancifolium* 'Orange Tiger'. PGRSA Proceedings, 132–135.

3. Barnes, J., et al. 2006. Stratigraphy of the Ford Construction Company gravel pit. *Journal of the Tennessee Academy of Science*, 81.1–2:28.

D. Peer-reviewed Journal Publications Under Review

1. Barnes, J., J. Dole, B. Whipker, I. McCall, and J. Boldt. Limiting phosphorus and potassium controls plant growth of floriculture species. Under review by authors, targeted publishing in *HortScience*.
2. Barnes, J., P. Nelson, B.E. Whipker, D. Dickey, D. Hesterberg, and W. Shi. Influence of nutrient accumulation in *Chrysanthemum ×morifolium* on root substrate pH over time. Under review by authors, targeted publishing in *HortScience*.
3. Barnes, J., B. Whipker, and I. McCall. 2014. *Cyperus papyrus* growth management with benzyladenine and flurprimidol. *Journal of Environmental Horticulture*, submitted.
4. Barnes, J., K.Y. Jeong, P.V. Nelson, D. Hesterberg, J. Smith, and B.E. Whipker. 2013. Evaluation of a rapid, automated titration system for evaluating lime requirements for peat-based root substrates. *Scientia Horticulturae*, rejected.

E. eBooks

1. Barnes, J., I. McCall, B. Whipker, and J. Frantz. 2012. *Primula: A Pictorial Guide to Nutrient Disorder Symptoms*. Forensic Floriculture, Raleigh, NC.

F. Abstracts

1. Barnes, J., J. Dilday, C. Angeny, S. Hong, and M. Maurer. 2018. *Colocasia* trials at Stephen F. Austin State University. ASHS Annual Conference, Washington, DC. July 30–Aug. 3, p. 175.
2. Angeny, C., J. Barnes, S. Laird, M. Maurer, and Candis Carraway. 2018. Effectiveness of using Google sheets with university students to assess diversity in vegetable crops. ASHS Annual Conference, Washington, DC. July 30–Aug. 3, p. 35.
3. Barnes, J., J. Dole, B. Whipker, J. Boldt, and I. McCall. 2018. Limiting phosphorus and potassium controls plant growth of floriculture species. ASHS Annual Conference, Washington, DC. ASHS Annual Conference, Washington, DC. July 30–Aug. 3, p. 44.
4. Barnes, J., S. Hong, B. Clack, Y. Weng, and M. Maurer. 2018. Evaluation of genetic diversity and stability of *Colocasia* cultivars using ISSR. ASHS Annual Conference, Washington, DC, p. 205.
5. Maurer, M., B. Cheema, and J. Barnes. 2018. The influence of planting density on the production of specialty cut sunflowers. ASHS Annual Conference, Washington, DC. July 30–Aug. 3, p. 79.
6. Maurer, M., B. Cheema, R. Burnett, and J. Barnes. 2018. Pinching specialty cut sunflowers to increase production. ASHS Annual Conference, Washington, DC. ASHS Annual Conference, Washington, DC. July 30–Aug. 3, p. 209.
7. Barnes, J. Horticulture is awesome: Assessing student learning and interest via blog posts. ASHS Annual Conference, Washington, DC. ASHS Annual Conference, Washington, DC. July 30–Aug. 3, p. 53.

8. Barnes, J., P. Nelson, D. Hesterberg, W. Shi, and B. Whipker. 2013. Impact of Fertilizer Leach Fraction on Container Substrate pH. The International Symposium on Growing Media and Soilless Cultivation. Leiden, The Netherlands, 17–21 June 2013, p. 73.
9. Barnes, J., P. Nelson, W. Shi, D. Hesterberg, and B. Whipker. 2013. Fertilizer formulation effect on pH of fallow versus planted container substrate. The International Symposium on Growing Media and Soilless Cultivation. Leiden, The Netherlands, 17–21 June 2013, p. 146.
10. Barnes, J., B. Whipker, I. McCall, and J. Frantz. 2013. Characterization of Nutrient Disorders of *Gazania rigens* 'Daybreak White'. The International Symposium on Growing Media and Soilless Cultivation. Leiden, The Netherlands, 17–21 June 2013, p. 154.
11. Barnes, J., B. Whipker, and I. McCall. 2013. Optimizing nitrogen rates for two cultivars of *Graziosa* geraniums. The International Symposium on Growing Media and Soilless Cultivation. Leiden, The Netherlands, 17–21 June 2013, p. 137.
12. Barnes, J., P. Nelson, K.Y. Jeong, W.C. Fonteno, B. Whipker, and J. Frantz. Impact of dairy manure compost and water content on wettability and density in peat moss-perlite root substrate. ISHS Intl Symp. on Responsible Peatland Management and Growing Media Production, Quebec City, Quebec, Canada, 13–17 June, p. 37.
13. Barnes, J., B. Whipker, I. McCall, and J. Frantz. 2010. Characterization of nutrient disorders of *Gomphrena globosa* 'Las Vegas Purple'. ISHS Intl Symp. on Responsible Peatland Management and Growing Media Production, Quebec City, Quebec, Canada, 13–17 June, p.112.
14. Whipker, B., I. McCall, J. Barnes, W. Buhler, B. Krug, C. Currey, and R. Lopez. 2010. Flurprimidol pre-plant bulb soaks control growth of potted Liliams. ISHS Liliam Conference, Pescia, Italy, 28 August–3 September, p.36.
15. Barnes, J., B. Whipker, I. McCall, and J. Frantz. 2010. Characterization of nutrient disorders of *Lilium longiflorum* 'Nellie White' and *Lilium* hybrid 'Brunello'. ISHS Liliam Conference, Pescia, Italy, 28 August–3 September, p.65.
16. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Abutilon x hybridum* 'Bella Yellow.' III Intl. Conf. and Exhibition on Soilless Culture. Singapore, 8–11 March, p.51.
17. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Dahlia x hybrida* 'Maxi Morelia.' III Intl. Conf. and Exhibition on Soilless Culture. Singapore, 8–11 March, p.52.
18. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Senecio cineraria* 'Silver Mist'. III Intl. Conf. and Exhibition on Soilless Culture. Singapore, 8–11 March, p.53.
19. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Fuchsia x hybrida* 'Gartenmeister Bonstedt.' III Intl. Conf. and Exhibition on Soilless Culture. Singapore, 8–11 March, p. 54.
20. Barnes, J., B.E. Whipker, W. Buhler, and I. McCall. 2009. *Osteospermum* Growth Control with Paclobutrazol Substrate Drenches. 36th Annual Meeting of the Plant Growth Regulation Society of America, Asheville, NC, 2–6 August, p. 28.
21. Barnes, J., B.E. Whipker, W. Buhler, and I. McCall. 2009. Flurprimidol pre-plant bulb soaks control growth of *Lilium lancifolium* 'Orange Tiger.' 36th Annual Meeting of the Plant Growth Regulation Society of America, Asheville, NC, 2–6 August, p. 34.

22. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2009. Characterization of nutrient disorders of *Primula acaulis* 'Danova Rose'. Intl. Symp. On Growing Media and Composting, Charlotte, NC, 1–5 June, p. 50.
23. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2009. Characterization of nutrient disorders of *Cineraria cruetus* 'Jester Purple Blue'. Intl. Symp. On Growing Media and Composting, Charlotte, NC, 1–5 June, p. 51.

G. Posters

1. Barnes, J., Dilday, C. Angeny, S. Hong, and M. Maurer. 2018. *Colocasia* trials at Stephen F. Austin State University. ASHS Annual Conference, Washington, DC. July 30–Aug. 3.
2. Maurer, M., B. Cheema, and J. Barnes. 2018. The influence of planting density on the production of specialty cut sunflowers. ASHS Annual Conference, Washington, DC. July 30–Aug. 3.
3. Barnes, J., P. Nelson, B. Whipker, D. Hesterberg, and W. Shi. 2013. Impact of fertilizer leach fraction on container substrate pH. Intl Symp. on Growing Media and Soilless Cultivation. Leiden, The Netherlands, 17–21 June.
4. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2013. Characterization of nutrient disorders of *Gazania rigens* 'Daybreak White'. Intl Symp. on Growing Media and Soilless Cultivation. Leiden, The Netherlands, 17–21 June.
5. Barnes, J., B.E. Whipker, and I. McCall. 2013. Optimizing nitrogen rates for two cultivars of *Graziosa* geraniums. Intl Symp. on Growing Media and Soilless Cultivation. Leiden, The Netherlands, 17–21 June.
6. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Gomphrena globosa* 'Las Vegas Purple'. ISHS Intl Symp. on Responsible Peatland Management and Growing Media Production. Quebec City, Quebec, 15–16 June.
7. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Abutilon x hybridum* 'Bella Yellow.' III Intl. Conf. and Exhibition on Soilless Culture. Singapore, 8–11 March.
8. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Senecio cineraria* 'Silver Mist'. III Intl. Conf. and Exhibition on Soilless Culture. Singapore, 8–11 March.
9. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Fuchsia x hybrida* 'Gartenmeister Bonstedt.' III Intl. Conf. and Exhibition on Soilless Culture. Singapore, 8–11 March.
10. Barnes, J., B.E. Whipker, W. Buhler, and I. McCall. 2009. Flurprimidol pre-plant bulb soaks control growth of *Lilium lancifolium* 'Orange Tiger.' 61st Annual NCSU Crop Protection School, Raleigh, NC, 8 Dec.
11. Barnes, J., B.E. Whipker, W. Buhler, and I. McCall. 2009. Flurprimidol pre-plant bulb soaks control growth of *Lilium lancifolium* 'Orange Tiger.' 36th Annual Meeting of the Plant Growth Regulation Society of America, Asheville, NC, 2–6 Aug.
12. Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2009. Characterization of nutrient disorders of *Primula acaulis* 'Danova Rose'. Intl. Symp. On Growing Media and Composting, Charlotte, NC, 1–5 June.

- Barnes, J., B.E. Whipker, I. McCall and J. Frantz. 2009. Characterization of nutrient disorders of *Cineraria cruetus* 'Jester Purple Blue'. Intl. Symp. On Growing Media and Composting, Charlotte, NC, 1–5 June.

H. Popular Press: Industry Articles

- Barnes, J. 2017. Propagation: Not just for plants. AmericanHort Connect, May:4–5.
- Barnes, J. 2016. How the greenhouse industry can propagate gardeners the same way it propagates plants. Greenhouse Grower, ???
- Barnes, J., B. Whipker, and I. McCall. Optimizing Fertilization Rates for Graziosa Geraniums. OFA Bulletin, #930. Nov/Dec 2011:19–21.
- Whipker, B., I. McCall, and J. Barnes. Identifying Poinsettia Nutritional Disorders. GPN. July 2011:32–40.

I. Popular Press: Magazine Articles

- Barnes, J. Potbound by Plant Choices? Think Inside a Container. Carolina Gardener. Apr 2014:17–20.
- Barnes, J. Bare but Beautiful. Fine Gardening. 155:38–45.
- Barnes, J. A Zeal for Native Azaleas. Carolina Gardener. May 2013:26–28.
- Barnes, J. Don't Fret about Fertilizers. Carolina Gardener. Mar 2013:22–25.
- Barnes, J. A Tugging Question. Carolina Gardener. May 2012:22–23.
- Barnes, J., B. Whipker, and I. McCall. Optimizing fertilization rates for Graziosa geraniums. OFA Bulletin Nov 2011(930):19–21.
- Barnes, J. A Sapling's Discoveries in South England. Conifer Quarterly. 27(4):9–11.
- Barnes, J. Minimize Ice Storm Damage. *Hometown* Jan 2010:24–25.
- Barnes, J. Thankful for Containers. *Hometown* Nov 2009:24–25.
- Barnes, J. Cloudy, With a Chance of Hydrangea. *Hometown* Sept 2009:23–24.
- Barnes, J. Higher Ground. *Hometown* July 2009:4–5.
- Barnes, J. Childish Things. *Hometown* May 2009:25–26.
- Barnes, J. The Ultimate Showdown: Heirlooms vs. Hybrids. *Hometown* Mar 2009:23–25.
- Barnes, J. Colorful Choices for Winter. *Hometown* Jan 2009:22–24.
- Barnes, J. Spare the Pruner, Spoil the Plant. *Hometown* Nov 2008:22–23.
- Barnes, J. My Summer at the Scott Arboretum. *Hometown* Sept 2008:27–28.
- Barnes, J. Food-like Substances? *Hometown* July 2008:27–28.
- Barnes, J. Environmentally Friendly Bulbs. *Hometown* May 2008:26–27.
- Barnes, J. Year-round Growing Season. *Hometown* Mar 2008:28–30.
- Barnes, J. Columbus, Ho! *Hometown* Jan 2008:26–27.
- Barnes, J. 2007: What Thrived, Survived, & Died. *Hometown* Nov 2007:30–31.
- Barnes, J. Jack... Thinking-Out-of-the-Box. *Hometown* Sep 2007:28–31.
- Barnes, J. The Life of a Seed. *Hometown* Jul 2007:22–23.
- Barnes, J. Garden Technology? *Hometown* May 2007:30–31.
- Barnes, J. Stress in the Garden? *Hometown* Mar 2007:27–28.
- Barnes, J. Blooms in the Dead of Winter. *Hometown* Jan 2007:28–29.
- Barnes, J. O Tannenbaum. *Hometown* Nov 2006:16–17.
- Barnes, J. Paradise in Paris. *Hometown* Sep 2006:25–27.

29. Barnes, J. The Garden as a Canvas. *Hometown* Jul 2006:25–27.
30. Barnes, J. Walking in Memphis: Not a Marc Cohn Song. *Hometown* May 2006:30–31.
31. Barnes, J. Vehement Volunteers. *Hometown* Mar 2006:40–41.
32. Barnes, J. Stocking the Tool Shed. *Hometown* Jan 2006:27–29.
33. Barnes, J. Master Gardeners: A Growing Tradition. *Hometown* Dec 2005:29–31.
34. Barnes, J. Master Gardeners: A Growing Tradition. *Hometown* Nov 2005:32–35.
35. Barnes, J. Soil Prep for Next Year. *Hometown* Oct 2005:30–31.
36. Barnes, J. Amazing Autumn Containers. *Hometown* Aug 2005:32–33.
37. Barnes, J. Fresh Out of the Garden. *Hometown* Mar 2005:6–8.

J. Popular Press: Newspaper Articles

1. Barnes, J. Summer is Coming. Weakley County Press 06 Mar 2008:18.
2. Barnes, J. Top Favorites of the Past Year. Weakley County Press 06 March 2007: 2007 Home-Garden-Sporting Show Edition 10.
3. Barnes, J. Native Perennials. Weakley County Press 16 Mar 2006: Home, Garden, and Business Issue 14.

III. PRESENTATIONS AND SPEAKING ENGAGEMENTS

A. Scientific Conferences (presenter in bold)

1. Angeny, C., **J. Barnes**, S. Laird, M. Maurer, and C. Carraway. 2018. Effectiveness of using Google sheets with university students to assess diversity in vegetable crops. ASHS Annual Conference, Washington, DC. July 30–Aug. 3.
2. **Barnes, J.**, J. Dole, B. Whipker, J. Boldt, and I. McCall. 2018. Limiting phosphorus and potassium controls plant growth of floriculture species. ASHS Annual Conference, Washington, DC. ASHS Annual Conference, Washington, DC. July 30–Aug. 3.
3. **Barnes, J.**, S. Hong, B. Clack, Y. Weng, and M. Maurer. 2018. Evaluation of genetic diversity and stability of *Colocasia* cultivars using ISSR. ASHS Annual Conference, Washington, DC. July 30–Aug. 3.
4. **Maurer, M.**, B. Cheema, R. Burnett, and J. Barnes. Pinching specialty cut sunflowers to increase production. ASHS Annual Conference, Washington, DC. ASHS Annual Conference, Washington, DC. July 30–Aug. 3.
5. **Barnes, J.** Horticulture is awesome: Assessing student learning and interest via blog posts. ASHS Annual Conference, Washington, DC. ASHS Annual Conference, Washington, DC. July 30–Aug. 3.
6. **Angeny, C.**, J. Barnes, and R. Henderson. 2017. The effects of low tunnels on yield and survival of Swiss chard (*Beta vulgaris* var. *cicla*) cultivars in east Texas. Southern Region American Society for Horticultural Science, Mobile, AL.
7. **Barnes, J.**, P. Nelson, B. Whipker, D. Dickey, D. Hesterberg, and W. Shi. 2015. Modeling the effects of macronutrients on fallow soilless root substrate ph. ASHS Annual Conference, New Orleans, LA.
8. **Barnes, J.**, P. Nelson, B. Whipker, D. Dickey, D. Hesterberg, and W. Shi. 2015. Influence of Nutrient Accumulation in *Chrysanthemum × morifolium* on Root Substrate pH Over Time. ASHS Annual Conference, New Orleans, LA.
9. **Barnes, J.**, P. Nelson, B. Whipker, D. Hesterberg, and W. Shi. 2013. Quantifying the impact of macronutrients on substrate pH. ASHS Annual Conference, Palm Desert, CA.
10. **Barnes, J.**, P. Nelson, B. Whipker, D. Hesterberg, and W. Shi. 2013. Fertilizer formulation effect on pH of fallow versus planted container substrate. Intl Symp. on Growing Media and Soilless Cultivation. Leiden, Netherlands.
11. **Barnes, J.**, P. Nelson, D. Hesterberg, K.Y. Jeong, and B. Whipker. 2012. Evaluation of a Rapid, Automated Titration System for Evaluating Lime Requirements for Peat-based Substrates. ASHS Annual Conference, Miami, FL.
12. **Barnes, J.**, P. Nelson, K.Y. Jeong, W.C. Fonteno, B. Whipker, and J. Frantz. 2011 Impact of dairy manure compost and water content on wettability and density in peat moss-perlite root substrate. ISHS Intl Symp. on Responsible Peatland Management and Growing Media Production, Quebec City, Quebec.
13. **Barnes, J.**, B.E. Whipker, I. McCall and J. Frantz. 2010. Characterization of nutrient disorders of *Dahlia × hybrida* 'Maxi Morelia.' III Intl. Conf. and Exhibition on Soilless Culture, Singapore.
14. **Barnes, J.** 2009. *Osteospermum* Growth Control with Paclobutrazol Substrate Drenches. Plant Growth Regulators Society of America, Asheville, North Carolina.
15. **Barnes, J.**, et al. 2006. Stratigraphy of the Ford Construction Company Gravel Pit. Tennessee Academy of Science Annual Meeting, Martin, TN.

B. Keynotes

1. Barnes, J. July 2015. Keep Growing! An Abbreviated Anatomy of Cultivating Yourself and the Craft of Horticulture. Hortie Hoopla at New York Botanical Garden; New York, NY. 173 attendees.
2. Barnes, J. Mar 2015. People and Plants Make Great Companions for Azaleas. Azalea Society of America National Convention; Nacogdoches, TX. 67 attendees.

C. Invited Speaker

1. Barnes, J. Nov. 2016. Foodscaping with Incredible Edibles. East Texas Garden Lecture Series, Tyler, TX. 36 attendees.
2. Barnes, J. Oct. 2016. BIG Perennials for a Shrinking World. Perennial Plant Conference, Swarthmore, PA. 600 attendees.
3. Barnes, J. Sept. 2016. Propagating Horticulturists: A Cultural Guide for Cultivating the Future of Horticulture. JC Raulston Arboretum 40th Anniversary Symposium, Raleigh, NC. 215 attendees.
4. Barnes, J. Aug. 2016. Incredible Edibles for the Garden. Texas Nursery and Landscape Association Nursery/Landscape Expo16, Houston, TX. 56 attendees.
5. Barnes, J. Aug. 2016. Reliable and Relevant Perennials for 21st Century Horticulture. Texas Nursery and Landscape Association Nursery/Landscape Expo16, Houston, TX. 78 attendees.
6. Barnes, J. Aug. 2016. Southern Born and Bred: Native and Adopted Plants for Zone 8. Georgia Perennial Plant Association, Atlanta, GA. 76 attendees.
7. Barnes, J. July 2016. Propagating Horticulturists: A Cultural Guide for Our Craft, Culture, and Industry. Cultivate'16, Columbus, OH. 41 attendees.
8. Barnes, J. and Stover, D. July 2016. #zone8mafia: Gangster Plants for Gangster Gardens. Cultivate'16, Columbus, OH. 49 attendees.
9. Barnes, J. and Arthur, B. July 2016. The New American Foodscape: Edibles Grown Beautifully. Cultivate'16, Columbus, OH. 83 attendees.
10. Barnes, J. June 2016. Propagating Horticulturists: A Cultural Guide for Our Craft, Culture, and Industry. Native Plants in the Landscape Conference, Millersville, PA. 196 attendees.
11. Barnes, J. June 2016. Flora with a Southern Flair. Native Plants in the Landscape Conference, Millersville, PA. 42 attendees.
12. Barnes, J. Apr. 2016. Colorful Gardens from around the World. Soleil Garden Center, Union City, TN. 67 attendees.
13. Barnes, J. Feb. 2016. Bloomin' Hydrangeas: The Perfect Host for a Garden Soiree. Mid-south Hydrangea Society; Memphis, TN. 109 attendees.
14. Barnes, J. Jan. 2016. The Traveling Plantsman: Reliable and Relevant Plants for 21st Century Horticulture. Green and Growin' Show; Greensboro, NC. 123 attendees.
15. Barnes, J. Oct. 2015. "Thrivable" Perennials for the South. Perennial Plant Association Southern Region Symposium; Dallas, TX. 51 attendees.
16. Barnes, J. Sept. 2015. Herbaceous Design – Incorporating Annuals & Perennials into Your Garden. East Texas Garden Lecture Series, Tyler, TX. 38 attendees.
17. Barnes, J. July 2015. Propagating Horticulturists: A Cultural Guide for Our Craft, Culture, and Industry. Perennial Plant Association Symposium; Baltimore, MD. 153 attendees.

18. Barnes, J. July 2015. Succulents: Juicy Plants for Southern Gardens. Dixon Gallery and Gardens; Memphis, TN. 34 attendees.
19. Barnes, J. Feb 2015. Sprout at SFA. Texas Association of Botanic Gardens and Arboreta; Nacogdoches, TX. 56 attendees.
20. Barnes, J. Feb 2015. Something Sprouts in Nacogdoches: A New Student Edible Garden at SFASU. East Texas Commercial Fruit & Vegetable Conference; Nacogdoches, TX. 85 attendees.
21. Barnes, J. Feb 2015. Headed Down South from the Land of the Pines: Reflections on the Plants, People, Places of North Carolina. SFA Gardens; Nacogdoches, TX. 72 attendees.
22. Barnes, J. Feb 2015. Plant Extroverts! Wonderful Woodies and Praiseworthy Perennials. New England Grows; Boston, MA. 323 attendees.
23. Barnes, J. Jan 2015. Plant Extroverts! Wonderful Woodies and Praiseworthy Perennials. Great Lakes Trade Expo; Lansing, MI. 77 attendees.
24. Barnes, J. Jan 2015. Plant Extroverts! Alluring Annuals And Tantalizing Tropicals. Great Lakes Trade Expo; Lansing, MI. 85 attendees.
25. Barnes, J. Aug 2014. Forging Alloys: Captivating, Ironclad Combinations for the Garden. Farwest. Farwest Show; Portland, OR. 93 attendees.
26. Barnes, J. Jun 2014. Color from around the World. NCSU Professional Color Field Day; Raleigh, NC. 71 attendees.
27. Barnes, J. Feb 2014. Plant Extroverts! Wonderful Woodies with Personality. Guilford Horticulture Symposium; Greensboro, NC. 189 attendees.
28. Barnes, J. Aug 2013. Plant Extroverts! Wonderful Woodies and Praiseworthy Perennials. Farwest Show; Portland, OR. 54 attendees.
29. Barnes, J. Aug 2013. If You Grow It and Show It, They Will Come: Dreamy Plants and Marketing Ideas for Today's Gardener. Summer Green Road Show; Wilmington, NC. 26 attendees.
30. Barnes, J. June 2013. Plant Extroverts! Alluring Annuals and Tantalizing Tropicals. June 2013. NCSU Professional Color Field Day; Raleigh, NC. 42 attendees.
31. Barnes, J. May 2013. Going to Carolina for my Mind... and the Plants! JC Raulston Arboretum; Raleigh, NC. 34 attendees.
32. Barnes, J. Jan 2013. Rambling Roots: Inspiration for Your Garden from around the World. North American Rock Garden Society, Piedmont Chapter; Raleigh, NC. 68 attendees.
33. Barnes, J. Jan 2013. If You Grow It and Show It, They Will Come: Dreamy Plants and Marketing Ideas for Today's Gardener. Green & Growin' Show; Greensboro, NC. 60 attendees.
34. Barnes, J. Jan 2013. A Blueprint for pH Management. Green & Growin' Show; Greensboro, NC. 12 attendees.
35. Barnes, J. Jan 2013. Plant Extroverts! Alluring Annuals and Tantalizing Tropicals. Green & Growin' Show; Greensboro, NC. 95 attendees.
36. Barnes, J. Aug 2012. If You Grow It and Show It, They Will Come: Dreamy Plants and Marketing Ideas for Today's Gardener. Summer Green Road Show; Hickory, NC. 41 attendees.
37. Barnes, J. Jan 2012. Elevate Your Landscape with Great Background Plants. Green & Growin' Show; Greensboro, NC. 67 attendees.
38. Barnes, J. July 2011. Elevate Your Landscape with Great Background Plants. NCSU Professional Color Field Day; Raleigh, NC. 80 attendees.

39. Barnes, J. Nov 2010. From the Seed of an Idea to a Garden Full of Flora: Techniques for Growing Outdoor Flowers. National Garden Club Garden Study School; Wilmington, NC. 15 attendees.
40. Barnes, J. Jan 2010. FEED ME!!! The Horrors of Nutrient Deficiencies. Green & Growin' Show; Greensboro, NC. 55 attendees.

D. University Seminars

1. Barnes, J. 28 Oct 2015. The Traveling Plantsman: A Fresh Perspective on Horticulture in the 21st Century. Graduate Seminar, Arthur Temple College of Forestry and Agriculture; Nacogdoches, TX.

IV. AWARDS, RECOGNITIONS, AND ACTIVITIES

A. Horticulture Awards and Honors

1. 2017. Keep Nacogdoches Beautiful 2017 Sustainability Award.
2. 2016. Perennial Plant Association's 2016 Young Professional of the Year.
3. 2016. GPN's 2016 Class of 40 Under 40.
4. 2015. Kenneth Post Award for "Statistical Model for Predicting Macronutrient Impacts on Container Substrate pH Over Time", American Society of Horticultural Science Floriculture Working Group and Kenneth Post Foundation.
5. 2014. Krezdorn Award for Excellence in Doctoral Research and Writing for "Statistical Model for Predicting Macronutrient Impacts on Container Substrate pH Over Time", American Society of Horticultural Science Southern Region. \$200.
6. 2011. OFA Scholar.
7. 2009. 1st place 36th Annual Meeting of the Plant Growth Regulation Society of America poster contest, Asheville, NC.
8. 2008. Botanical Society of America Young Botanist Award.

B. Horticulture Recognitions

1. 2012. OFA Scholar Coordinator.
2011. Plant Expert for The Scott Arboretum's 2011 Unusual Tropicals and Annuals Sale.

C. Interviews and Recognition by Peers

1. Fuller, S. 2016. Rooting out solutions: Elephant ear trial to focus on varieties for gardeners. The Daily Sentinel, 118 (74):1A,3A.
2. MORE BY SARAH???'
3. Druse, K. 2014. Next Generation 2.0. Organic Gardening, Apr/May:49–53.
4. Gallagher, A. 2014. Scholarship Supports Ph.D. Graduate's Research. Greenhouse Grower, 28–30.
5. Barnes, J. 2013. Jared Barnes Reaches Out to Tomorrow's Horticulturists and Gardeners. Interview by Ken Druse, Real Dirt. Podcast, 11 Oct.
6. Cady, C. 2013. Faces of Farwest. Digger, Aug:39–41.

D. SFA University Service

1. Spring 2016. Core Curriculum Assessment Committee, Empirical and Quantitative Skills Team. 20 hours per year.

E. SFA College Service

1. Sept 2015–Present. ATCOFA Computer and Digital Media Committee. Member. 10 hrs per year.

F. SFA Department Service

1. 2014–Present. Website Committee. 5 hours per year.
2. 2014–Present. Social media committee. 5 hours per year.

G. External Committee Activities

1. 2015–present. Houston Livestock Show and Rodeo 4-H and FFA Nursery Landscape Contest. Assistant Superintendent. 20 hours per year.
2. Jan 2015–Dec 2016. Sidney B. Meadows Scholarship Endowment Fund Selection Committee. Member. 15 hours per year.
3. Oct. 2015–Present. AmericanHort GenNext Committee. Member. 10 hours per year.

H. Professional Society Memberships

1. 2014–Present. Member of AmericanHort.
2. 2011–2013. Member of OFA.
3. 2011–Present. Member of Magnolia Society, International.
4. 2010–2016. Member of the American Conifer Society.
5. 2008–Present. Member of Garden Writers Association.
6. 2007–Present. Member of Perennial Plant Association.