

## JOHN L SNIDER

Associate Professor (85% Research; 15% Teaching)  
Department of Crop and Soil Sciences  
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### Education:

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- **Ph.D., Crop, Soil, and Environmental Sciences**, University of Arkansas, May, 2010
- **M.S., Biology**, University of Central Arkansas, August, 2007
- **B.S., Biology**, Henderson State University, May, 2005
- **A.A.**, Rich Mountain Community College, May, 2003

### Relevant Professional Experience:

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- **Associate Professor (Crop Physiology)**: University of Georgia, July 2018-present
- **Assistant Professor (Crop Physiology)**: University of Georgia, April 2012-June 2018
- **Postdoctoral Research Associate**: USDA, ARS, Dale Bumpers Small Farms Research Center, Booneville, AR, June 2010-March 2012.
- **Research Assistant**: University of Central Arkansas, June-July 2006. University of Arkansas, June 2007-May 2010.
- **Teaching Assistant**: University of Central Arkansas, August 2005-May 2007.
- **Microbiology Laboratory Assistant**: Henderson State University, August 2004-May 2005.
- **Biological Sciences Tutor**: Rich Mountain Community College, January-June 2003.

### Publications:

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**Refereed Journal Articles:** [89 published or in press]

\* lead authors are graduate students or postdocs conducting research under Dr. Snider's supervision.

\*\*PI and lead author contributed equally to the manuscript.

### 2022

- \*Chalise, D.P., **J.L. Snider**, L.C. Hand, P. Roberts, G. Vellidis, A. Ermanis, G.D. Collins, L.N. Lacerda, Y. Cohen, A. Pokhrel, V. Parkash, and J.M. Lee. 2022. Cultivar, irrigation management, and PGR strategy: effects on cotton growth, maturity, and yield. *Field Crops Research* (submitted).
- Liu, Y., **J.L. Snider**, A. Bhattarai, and G. Collins. 2022. Economic penalties associated with irrigation during high rainfall years in the southeastern United States. *Agricultural Water Management* (submitted).
- Hand, L., Barnes, E., Roberts, P., **Snider, J.**, and Porter, W. 2022. Impact of environmental conditions and variety on seed coat fragment issues in Georgia in 2020. *Journal of Cotton Science* (in press).
- Zou, J., **J.L. Snider**, H. Zhu, J. He, Y. Li, Z. Zhou, Y. Wang, Y. Meng, B. Chen, W. Zhao, S. Wang, W. Hu. 2022. Soil drought duration and severity affect cotton boll biomass by altering

recovery times and carbon dynamics of subtending leaf. *Journal of Agronomy and Crop Science* (in press).

- Fox, J.L., D. Jespersen, L.L. Baxter, **J.L. Snider**, M.W. van Iersel, and B.M. Schwartz. 2022. Towards estimating shade response of bermudagrass (*Cynodon* spp.) using field-based photosynthetic properties. *Grass Research* 2:3.
- **Snider, J.L.**, N. Thangthong, C. Rossi, and C. Pilon. 2022. Root system growth and anatomy of cotton seedlings under suboptimal temperature. *Journal of Agronomy and Crop Science* 208:372-383.
- **Snider, J.L.**, C. Pilon, W. Hu, H.M. Wang, V. Tishchenko, W. Slaton, D. Chastain, and V. Parkash. 2022. Net photosynthesis acclimates to low growth temperature in cotton seedlings by shifting temperature thresholds for photosynthetic component processes and respiration. *Environmental and Experimental Botany* 196:104816.
- Lacerda, L., **J.L. Snider**, Y. Cohen, V. Liakos, S. Gobbo, and G. Vellidis. 2022. Using UAV-based thermal imagery to detect crop water status variability in cotton. *Smart Agricultural Technology* 2:100029.

## **2021**

- Singh, B., D. Chastain, K.R. Reddy, **J. Snider**, L.J. Krutz, S. Stetina, and A. Sehgal. 2021. Agronomic characterization of cotton genotypes susceptible and resistant to *Rotylenchulus reniformis* in the US Midsouth. *Agronomy Journal* 113:4280-4291.
- \*Parkash, V., D.B. Sharma, **J. Snider**, S. Bag, P. Roberts, A. Tabassum, D. West, S. Khanal, N. Suassuna, and P. Chee. 2021. Effect of cotton leafroll dwarf virus on physiological processes and yield of individual cotton plants. *Frontiers in Plant Science* 12:734386.
- \*Virk, G., **J.L. Snider**, P. Chee, D. Jespersen, C. Pilon, G. Rains, P. Roberts, N. Kaur, A. Ermanis, V. Tishchenko. 2021. Extreme temperatures affect seedling growth and photosynthetic performance of advanced cotton genotypes. *Industrial Crops and Products* 172: 114025.
- **Snider, J.L.**, G. Harris, P. Roberts, C. Meeks, D. Chastain, M. Bange, G. Virk. 2021. Cotton physiological and agronomic response to nitrogen application rate. *Field Crops Research* 270:108194.
- Virk, S., W. Porter, **J. Snider**, G. Rains, C. Li, and Y. Liu. 2021. Cotton emergence and yield response to planter depth and downforce settings in different soil moisture conditions. *AgriEngineering* 3:323-338.
- Barnes, E., G. Morgan, K. Hake, J. Devine, R. Kurtz, G. Ibendahl, A. Sharda, G. Rains, **J. Snider**, J.M. Maja, J.A. Thomasson, Y. Lu, H. Gharakhani, J. Griffin, E. Kimura, R. Hardin, T. Raper, S. Young, K. Fue, M. Pelletier, J. Wanjura, and G. Holt. 2021. Opportunities for robotic systems and automation in cotton production. *AgriEngineering* 3:339-362.
- Virk, S., W. Porter, C. Li, G. Rains, **J. Snider**, J. Whitaker. 2021. On-farm evaluation of planter downforce in varying soil textures within grower fields. *Precision Agriculture* 22: 777-799.
- Lacerda, L., Y. Cohen, J. Snider, H. Huryna, V. Liakos, G. Vellidis. 2021. Field scale assessment of the TsHARP technique for thermal sharpening of MODIS satellite images using VEN $\mu$ S and Sentinel-2 derived NDVI. *Remote Sensing* 13:1155.

- \*Ermanis, A., S. Gobbo, **J.L. Snider**, Y. Cohen, V. Liakos, L. Lacerda, C. Perry, M.A. Bruce, G. Virk, and G. Vellidis. 2021. Defining physiological contributions to yield loss in response to irrigation in cotton. *Journal of Agronomy and Crop Science* 207:186-196.
- Shekoofa, A., S. Safikhani, **J.L. Snider**, T.B. Raper, and F.M. Bourland. 2021. Variation in stomatal conductance responses of cotton cultivars to high vapor pressure deficit under controlled and rainfed environments. *Journal of Agronomy and Crop Science* 207:332-343.

## 2020

- Singh, B., D.R. Chastain, K.R. Reddy, **J.L. Snider**, L.J. Krutz, S.R. Stetina and A. Sehgal. 2020. Early-season morphological and physiological responses of resistant and susceptible cotton genotypes to reniform nematode and soil nitrogen. *Agronomy* 10:1974.
- Virk, S.S., W. Porter, **J. Snider**, J. Whitaker, G. Rains and C. Li. 2020. Influence of Seeding Rate, Planter Downforce and Cultivar on Crop Emergence and Yield in Singulated and Hill-Dropped Cotton. *Journal of Cotton Science* 24: 2-147.
- Zhang, X., H. Yang, R. Zahoor, B. Chen, **J.L. Snider**, and Z. Zhou. 2020. Integrated soil-cotton management system enhances nitrogen use efficiency under different soil fertility levels. *Archives of Agronomy and Soil Science* 66: 1845-1860.
- Gao, M., **J.L. Snider**, H. Bai, W. Hu, R. Wang, Y. Meng, Y Wang, B Chen, and Z. Zhou. 2020. Drought effects on cotton fibre quality and fibre sucrose metabolism during the flowering and boll formation period. *Journal of Agronomy and Crop Science* 206: 309-321.
- \*Meeks, C, **J.L. Snider**, S. Culpepper, G. Hawkins. 2020. Applying plant-based irrigation scheduling to assess water use efficiency of cotton following a high-biomass rye cover crop. *Journal of Cotton Research* 3: 16.
- \*Virk, G.K., C. Pilon, **J.L. Snider**, and R.S. Tubbs. 2020. Whole-crop vigor in peanut cultivars is primarily dependent on leaf area responses to early-season temperature. *Agronomy Journal* 112:899-910.
- Byrd, S.A., **J.L. Snider**, T.L. Grey, A.S. Culpepper, J.R. Whitaker, P.M. Roberts, D.R. Chastain, W.M. Porter, and G.D. Collins. Chlorophyll a fluorescence parameters do not detect yield-limiting injury from sub-lethal rates of 2,4-dichlorophenoxyacetic acid (2,4-D) in cotton (*Gossypium hirsutum*). *Journal of Experimental Agriculture International* 42:34-48.
- \*Virk, G.K., **J.L. Snider**, and C. Pilon. 2020. Associations between first true leaf physiology and seedling vigor in cotton under different field conditions. *Crop Science* 60:404-418.
- \*\*Jiang, Y., **J.L. Snider**, C. Li, G.C. Rains, A.H. Paterson. 2020. Ground-based hyperspectral imaging for characterization of canopy-level photosynthetic activities. *Remote Sensing* 12:315.

## 2019

- \*Virk, G.K., C. Pilon, and **J.L. Snider**. 2019. Impact of first true leaf photosynthetic efficiency on peanut plant growth under different early season temperature conditions. *Peanut Science* 46:162-173.
- Zhao, W., H. Dong, R. Zahoor, Z. Zhou, J.L. Snider, Y. Chen, K.H.M. Siddique, and Y. Wang. 2019. Ameliorative effects of potassium on drought-induced decreases in fiber length of cotton (*Gossypium hirsutum* L.) are associated with osmolyte dynamics during fiber development. *The Crop Journal* 7:619-634.
- \*Virk, G., **J.L. Snider**, and C. Pilon. 2019. Physiological contributors to early season whole-crop vigor in cotton. *Crop Science* 59:2774-2783.

- Byrd, S.A., G.D. Collins, R.M. Barentine, J.L. Snider, A.S. Culpepper, P.M. Roberts, W.M. Porter, J.R. Whitaker. 2019. Tillage and irrigation impact on early and later maturing cotton cultivars. *Agronomy Journal* 111:1620-1633.
- \*Meeks, C.D., **J.L. Snider**, M.E. Babb-Hartman, and T.L. Barnes. 2019. Evaluating the mechanisms of photosynthetic inhibition under growth-limiting, early season water deficit stress in cotton. *Crop Science* 59:1144-1154.
- Wang, H., Y. Chen, W. Hu, **J.L. Snider**, and Z. Zhou. 2019. Short-term waterlogging contributes to cotton cross tolerance to chronic elevated temperature by regulating ROS metabolism in the subtending leaf. *Plant Physiology and Biochemistry* 139:333-341.
- Pilon, C., D. Loka, **J.L. Snider**, and D.M. Oosterhuis. 2019. Drought-induced osmotic adjustment and changes in carbohydrate distribution in leaves and flowers of cotton (*Gossypium hirsutum* L.). *Journal of Agronomy and Crop Science* 205:168-178.
- **Snider, J.L.**, R.F. Davis, H.J. Earl, and P. Timper. 2019. Water availability and root-knot nematode management strategies alter seedcotton yield through similar effects on yield components and fruit distribution patterns. *Field Crops Research* 233: 88-95.
- Raper, T., **J. Snider**, D. Dodds, A. Jones, B. Robertson, D. Fromme, T. Sandlin, T. Cutts, R. Blair. 2019. Genetic and environmental contributions to cotton yield and fiber quality in the MidSouth. *Crop Science* 59:307-317.

## **2018**

- Pilon, C., **J.L. Snider**, V. Sobolev, D.R. Chastain, R.B. Sorensen, C.D. Meeks, A.N. Massa, T. Walk, and Bhupinder Singh. 2018. Assessing stomatal and non-stomatal limitations to carbon assimilation under progressive drought in peanut. *Journal of Plant Physiology* 231:124-134.
- **Snider, J.L.**, N. Thangthong, C. Pilon, G. Virk, V. Tishchenko. 2018. OJIP fluorescence parameters as rapid indicators of cotton (*Gossypium hirsutum* L.) seedling vigor under contrasting growth temperature regimes. *Plant Physiology and Biochemistry* 132:249-257.
- Fang, S., K. Gao, W. Hu, J.L. Snider, S. Wang, B. Chen, Z. Zhou. 2018. Chemical priming of seed alters cotton floral bud differentiation by inducing changes in hormones, metabolites and gene expression. *Plant Physiology and Biochemistry* 130:633-640.
- \*Hu, W., **J.L. Snider**, D.R. Chastain, and V. Tishchenko. 2018. Sub-optimal emergence temperature alters thermotolerance of thylakoid component processes in cotton seedlings. *Environmental and Experimental Botany* 155:360-367.
- Zhang, X., H. Yang, **J.L. Snider**, R. Zahoor, B. Iqbal, B. Chen, Y. Meng, Z. Zhou. 2018. A comparative study of integrated crop management system vs. conventional crop management system for cotton yield and fiber quality with respect to fruiting position under different soil fertility levels. *Frontiers in Plant Science* 9:14.
- \*Hu, W., **J.L. Snider**, H. Wang, Z. Zhou, D.R. Chastain, C.D. Perry, F.M. Bourland. 2018. Water-induced variation in yield and quality can be explained by altered yield component contributions in field-grown cotton. *Field Crops Research* 224:139-147.
- Hu, W., Z. Dai, J. Yang, **J.L. Snider**, S. Wang, B. Chen, and Z. Zhou. 2018. The variability of cottonseed yield under different potassium levels is associated with the changed oil metabolism in embryo. *Field Crops Research* 224:80-90.
- Sun, S., C. Li, Y. Jiang, R. Xu, A.H. Paterson, **J.L. Snider**, and Z. Wei. 2018. In-field high throughput phenotyping and cotton plant growth analysis using LiDAR. *Frontiers in Plant Science* 9:16.

- Wang, H., Y. Chen, B. Xu, W. Hu, Y. Meng, B. Chen, Y. Wang, S. Wang, **J.L. Snider**, Z. Zhou. 2018. Long-term exposure to slightly elevated air temperature alleviates the negative impacts of short term waterlogging stress by altering nitrogen metabolism in cotton leaves. *Plant Physiology and Biochemistry* 123:242-251.
- Abid, M., A. Hakeem, Y. Shao, Y. Liu, R. Zahoor, Z. Tian, D. Jiang, **J.L. Snider**, and T. Dai. 2018. Seed osmopriming invokes stress memory against post-germinative drought stress in wheat (*Triticum aestivum* L.). *Environmental and Experimental Botany* 145:12-20.

## **2017**

- Wang, H., Y. Chen, W. Hu, S. Wang, **J.L. Snider**, Z. Zhou. 2017. Carbohydrate metabolism in the subtending leaf cross-acclimates to waterlogging and elevated temperature stress and influences boll biomass in cotton (*Gossypium hirsutum* L.). *Physiologia Plantarum* 161:339-354.
- Hu, W., Z. Dai, J. Yang, **J.L. Snider**, S. Wang, Y. Meng, Y. Wang, B. Chen, W. Zhao, Z. Zhou. 2017. Cultivar sensitivity of cotton seed yield to potassium availability is associated with differences in carbohydrate metabolism in the developing embryo. *Field Crops Research* 214:301-309.
- Hu, W., M. Zheng, S. Wang, Y. Meng, Y. Wang, B. Chen, **J.L. Snider**, and Z. Zhou. 2017. Proteomic changes in response to low light stress during cotton fiber elongation. *Acta Physiologiae Plantarum* 39:200.
- Zahoor, R., W. Zhao, H. Dong, **J.L. Snider**, M. Abid, B. Iqbal, and Z. Zhou. 2017. Potassium improves photosynthetic tolerance to and recovery from drought stress in functional leaves of cotton (*Gossypium hirsutum* L.). *Plant Physiology and Biochemistry* 119:21-32.
- \*Meeks, C.D., **J.L. Snider**, W.M. Porter, G. Vellidis, G. Hawkins, and D.L. Rowland. 2017. Assessing the utility of primed acclimation for improving water savings in cotton using a sensor-based irrigation scheduling system. *Crop Science* 57:2117-2129.
- Chen, Y., H. Wang, W. Hu, S. Wang, Y. Wang, **J.L. Snider**, and Z. Zhou. 2017. Combined elevated temperature and soil waterlogging stresses inhibit cell elongation by altering osmolyte composition of the developing cotton (*Gossypium hirsutum* L.) fiber. *Plant Science* 256:196-207.
- Chen, Y., H. Wang, W. Hu, S. Wang, **J.L. Snider**, and Z. Zhou. 2017. Co-occurring elevated temperature and waterlogging stresses disrupt cellulose synthesis by altering the expression and activity of carbohydrate balance-associated enzymes during fiber development in cotton. *Environmental and Experimental Botany* 135:106-117.

## **2016**

- Byrd, S.A., G.D. Collins, K.L. Edmisten, P.M. Roberts, **J.L. Snider**, T.A. Spivey, J.R. Whitaker, W.M. Porter, and A.S. Culpepper. 2016. Leaf Pubescence and Defoliation Strategy Influence on Cotton Defoliation and Fiber Quality. *Journal of Cotton Science* 20:280-293.
- \*Chastain, D.R., **J.L. Snider**, G.D. Collins, C.D. Perry, J. Whitaker, S.A. Byrd, and W.M. Porter, and D.M. Oosterhuis. 2016. Irrigation scheduling using predawn leaf water potential improves water productivity in drip irrigated cotton. *Crop Science* 56:3185-3195.
- Byrd, S.A., G.D. Collins, A.S. Culpepper, D.M. Dodds, K.L. Edmisten, D.L. Wright, G.D. Morgan, P.A. Baumann, P.A. Dotray, M.R. Manuchehri, A. Jones, T.L. Grey, T.M. Webster,

- J.W. Davis, J.R. Whitaker, P.M. Roberts, **J.L. Snider**, and W.M. Porter. 2016. Cotton Stage of Growth Determines Sensitivity to 2,4-D. *Weed Technology* 30:601-610.
- Christ, E.H., P.J. Webster, **J.L. Snider**, V.E. Toma, D.M. Oosterhuis, and D.R. Chastain. 2016. Predicting heat stress in cotton using probabilistic canopy temperature forecasts. *Agronomy Journal* 108:1981-1991.
  - Grey, T., W.D. Branch, R.S. Tubbs, J.L. Snider, T.M. Webster, J.A. Arnold, X. Li. 2016. Do genotype-by-environment interactions affect germination of runner-type peanut cultivars? *Agronomy Journal* 108:1424-1433.
  - Pote, D.H., R.L. Raper, **J.L. Snider**, T.G. Teague, and M.L. Reba. 2016. Effects of Arkansas cotton production systems on soil strength. *Applied Engineering in Agriculture* 32:365-370.
  - \*Chastain, D.R., **J.L. Snider**, J.S. Choinski, G.D. Collins, C.D. Perry, J. Whitaker, T. Grey, R.B. Sorensen, M. van Iersel, S.A. Byrd, and W.M. Porter. 2016. Leaf ontogeny strongly influences photosynthetic tolerance to drought and high temperature in *Gossypium hirsutum*. *Journal of Plant Physiology* 199:18-28.
  - **Snider, J.L.**, G.D. Collins, J.R. Whitaker, K.D. Chapman, and P. Horn. 2016. The impact of seed size and chemical composition on seedling vigor, yield, and fiber quality of cotton in five production environments. *Field Crops Research* 193:186-195.
  - Luis, J.M., P. Ozias-Akins, C.C. Holbrook, R.C. Kemerait Jr., **J.L. Snider**, and V. Liakos. 2016. Phenotyping peanut genotypes for drought tolerance. *Peanut Science* 43:36-48.
  - Pilon, C., **J.L. Snider**, D.M. Oosterhuis, and D. Loka. 2016. The effects of genotype and irrigation regime on PSII heat tolerance in cotton. *Advances in Research* 6:1-11.

## 2015

- **Snider, J.L.**, D.R. Chastain, and G.D. Collins. 2015. Field-grown cotton exhibits seasonal variation in photosynthetic heat tolerance without exposure to heat stress or water deficit conditions. *Journal of Agronomy and Crop Science* 201:312-320.
- **Snider, J.L.**, D.R. Chastain, C.D. Meeks, G.D. Collins, R.B. Sorensen, S.A. Byrd, and C.D. Perry. 2015. Predawn respiration rates during flowering are highly predictive of yield response in *Gossypium hirsutum* when yield variability is water-induced. *Journal of Plant Physiology* 183:114-120.
- **Snider, J.L.**, D.R. Chastain, G.D. Collins, T.L. Grey, and R.B. Sorensen. 2015. Do genotypic differences in thermotolerance plasticity correspond with water-induced differences in yield and photosynthetic stability for field-grown *Gossypium hirsutum*? *Environmental and Experimental Botany* 118:49-55.
- Burner, D.M., D.K. Brauer, and **J.L. Snider**. 2015. Effect of understory management on growth responses of Eastern Black Walnut on an alluvial Arkansas soil. *Agroforestry Systems* 89: 135-147.

## 2014

- \*Chastain, D.R., **J.L. Snider**, G.D. Collins, J. Whitaker, C.D. Perry, and S.A. Byrd. 2014. Water deficit in field-grown *Gossypium hirsutum* primarily limits net photosynthesis by decreasing stomatal conductance, increasing photorespiration, and increasing the ratio of dark respiration to gross photosynthesis. *Journal of Plant Physiology* 171: 1576-1585.
- **Snider, J.L.**, G.D. Collins, J. Whitaker, K. D. Chapman, and T.L. Grey. 2014. Seed size and oil content are key determinants of seedling vigor in *Gossypium hirsutum*. *Journal of Cotton Science* 18: 1-9.

- Burner, D.M., D.K. Brauer, **J.L. Snider**, C.A. Harrington, and P.A. Moore Jr. 2014. Phenological responses of juvenile pecan and white oak on an upland site. *Agroforestry Systems* 88: 141-155.
- **Snider, J.L.**, G.D. Collins, J.R. Whitaker, C.D. Perry, and D.R. Chastain. 2014. Electron transport through photosystem II is not limited by a wide range of water-deficit conditions in-field grown *Gossypium hirsutum*. *Journal of Agronomy and Crop Science* 200: 77-82.

### 2013

- **Snider, J.L.**, G.D. Collins, J.R. Whitaker, and J.W. Davis. 2013. Quantifying Genotypic and Environmental Contributions to Yield and Fiber Quality in Georgia: Data from 7 Commercial Cultivars and 33 Yield Environments. *Journal of Cotton Science* 17: 285-292.
- **Snider, J.L.**, D.M. Oosterhuis, G.D. Collins, C. Pilon, T.R. FitzSimons. 2013. Field-acclimated *Gossypium hirsutum* cultivars exhibit genotypic and seasonal differences in photosystem II thermostability. *Journal of Plant Physiology* 170: 489-496.
- Meki, M.N., **J.L. Snider**, J.R. Kiniry, R.L. Raper, and A.C. Rocateli. 2013. Energy sorghum biomass harvest thresholds and tillage effects on soil organic carbon and bulk density. *Industrial Crops and Products* 43: 172-182.
- Kawakami, E.M., **J.L. Snider**, D.M. Oosterhuis, and Toby Fitzsimons. 2013. High temperature and the ethylene antagonist 1-methylcyclopropene alter ethylene evolution patterns, antioxidant responses, and boll growth in *Gossypium hirsutum*. *American Journal of Plant Sciences* 4:1400-1408.
- Kawakami, E.M., D.M. Oosterhuis, and **J.L. Snider**. 2013. Nitrogen Assimilation and Growth of Cotton Seedlings under NaCl Salinity and in Response to Urea Application with NBPT and DCD. *Journal of Agronomy and Crop Science* 199: 75-153.
- Kawakami, E.M., D.M. Oosterhuis, and **J.L. Snider**. 2013. Influence of high temperature and urea fertilization with N-(N-butyl) thiophosphoric triamide and dicyandiamide on cotton growth and physiology. *Journal of Plant Nutrition* 36: 1615-1639.

### 2012

- **Snider, J.L.**, V.M. Russo, W. Roberts, E.V. Wann, and R.L. Raper. 2012. Cultural and Environmental Factors Governing Tomato Production: Local Production under Elevated Temperatures. *HortScience* 47: 1022-1028.
- Kawakami, E.M., D.M. Oosterhuis, **J.L. Snider**, M. Mozaffari. 2012. Physiological and yield responses of field-grown cotton to application of urea with NBPT and DCD. *European Journal of Agronomy* 43:147-154.
- **Snider, J.L.**, R.L. Raper, and E.B. Schwab. 2012. The effect of row spacing and seeding rate on biomass production and plant stand characteristics of non-irrigated photoperiod-sensitive sorghum (*Sorghum bicolor* (L) Moench). *Industrial Crops and Products* 37: 527-535.
- Pote, D.H., D.M. Burner, and **J.L. Snider**. 2012. Pine straw harvesting effects on vadose-zone water content of a Leadvale silt loam in western Arkansas. *Journal of Sustainable Forestry* 31: 230-238.

### 2011

- **Snider, J.L.** and D.M. Oosterhuis. 2011. How does timing, duration, and severity of heat stress influence pollen-pistil interactions in angiosperms? *Plant Signaling and Behavior* 6: 930-933.

- **Snider, J.L.**, D.M. Oosterhuis, D.A. Loka, and E.M. Kawakami. 2011. High temperature limits *in vivo* pollen tube growth rates by altering diurnal carbohydrate balance in field-grown *Gossypium hirsutum* pistils. *Journal of Plant Physiology* 168:1168-1175.
- **Snider, J.L.**, D.M. Oosterhuis, E.M. Kawakami. 2011. Mechanisms of reproductive thermotolerance in *Gossypium hirsutum*: the effect of cultivar and exogenous calcium application. *Journal of Agronomy and Crop Science* 197: 228-236.
- **Snider, J.L.**, D.M. Oosterhuis, E.M. Kawakami. 2011. Diurnal pollen tube growth rate is slowed by high temperature in field-grown *Gossypium hirsutum* pistils. *Journal of Plant Physiology* 168: 441-448.

## **2010**

- Kawakami, E.M., D.M. Oosterhuis, and **J.L. Snider**. 2010. 1-Methylcyclopropene effects on the physiology and yield of field-grown cotton. *Journal of Cotton Science* 14: 233-239.
- **Snider, J.L.**, J.S. Choinski Jr., and W. Slaton. 2010. Juvenile leaves of *Rhus glabra* have higher photosynthetic thermal tolerance than mature leaves. *Botany* 88: 286-289.
- Kawakami, E.M., D.M. Oosterhuis, and **J.L. Snider**. 2010. Physiological effects of 1-methylcyclopropene on well-watered and water-stressed cotton plants. *Journal of Plant Growth Regulation* 29: 280-288.
- **Snider, J.L.**, D.M. Oosterhuis, and E.M. Kawakami. 2010. Genotypic differences in thermotolerance are dependent upon pre-stress capacity for antioxidant protection of the photosynthetic apparatus in *Gossypium hirsutum*. *Physiologia Plantarum* 138: 268-277.

## **2009**

- **Snider, J.L.**, D.M. Oosterhuis, B.W. Skulman, and E.M. Kawakami. 2009. Heat stress-induced limitations to reproductive success in *Gossypium hirsutum*. *Physiologia Plantarum* 137: 125-138.
- **Snider, J.L.**, J.S. Choinski Jr., and R.R. Wise. 2009. Juvenile *Rhus glabra* leaves have higher temperatures and lower gas exchange rates than mature leaves when compared in the field during periods of high irradiance. *Journal of Plant Physiology* 166: 686-696.

## **Books [1 published]**

- **Snider, J.L.** and D.M. Oosterhuis. 2016. Linking Physiology to Management. The Cotton Foundation, Cordova, TN.

## **Book Chapters [14 published or in press]**

- **Snider, J.**, Virk, G., Parkash, V., and Kaur, N. 2022. Effects of high temperature and drought on cotton physiology, yield, and fiber quality. In: Echer, F.R.; Rosolem, C.A. (eds). Physiology applied to cotton management. Mato Grosso Cotton Institute (IMAmT). (In Portuguese). (in press).
- **Snider, J.L.**, Virk, G., Byrd, S., Collins, G., and Raper, T., 2021. Environmental disorders. In: Faske, T. R., T. L. Kirkpatrick, C. S. Rothrock, and J. E. Woodward, Compendium of Cotton Diseases: Third Edition. APS Press, St. Paul, MN (in press).



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- Oosterhuis, D.M., E.M. Kawakami, J. Phillips, J. Snider, D. Loka. 2010. Effect of 1-methylcyclopropene on the growth and yield of cotton. Abstract. Proceedings of the American Society of Agronomy annual meeting in Long Beach, CA, October 31-November 4.
- Oosterhuis, D.M., J.L. Snider, D.A. Loka, and F.M. Bourland. 2010. Screening for temperature tolerance in cotton. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2009. Arkansas Agricultural Experiment Station.
- Snider, J.L., D.M. Oosterhuis, and E.M. Kawakami. 2010. Genotypic differences in reproductive thermotolerance are associated with elevated pre-stress antioxidant enzyme protection in the cotton pistil. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2009. Arkansas Agricultural Experiment Station.
- Snider, J.L., D.M. Oosterhuis, and E.M. Kawakami. 2010. Genotypic differences in thermotolerance are dependent upon pre-stress capacity for antioxidant protection of the photosynthetic apparatus in cotton. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2009. Arkansas Agricultural Experiment Station.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2010. Effect of temperature and application of urea with N-butyl thiophosphoric triamide and dicyandiamide on cotton. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2009. Arkansas Agricultural Experiment Station.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2010. Effects of urea with NBPT and DCD on the yield and fiber quality of field-grown cotton. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2009. Arkansas Agricultural Experiment Station.
- Snider, J. L., D. M. Oosterhuis, B. W. Skulman, E. M. Kawakami, and D. K. Storch. 2009. Heat stress-induced changes in pollen tube growth, calcium levels, antioxidant defense, and superoxide production in cotton pistils. Abstract. Proceedings of the Beltwide Cotton Conferences in San Antonio, TX, January 5-8.
- Snider, J. L., D. M. Oosterhuis, B. W. Skulman, E. M. Kawakami, and D. K. Storch. 2009. The effects of heat stress on pollen tube growth, carbohydrate metabolism, and energy levels in cotton pistils. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-8.



- Kawakami, E. M., D. M. Oosterhuis, and J.L. Snider. 2009. Physiological effects of 1- MCP on the cotton flower and subsequent boll development under normal and high temperatures. Abstract. Proceedings of the Beltwide Cotton Conferences in San Antonio, TX, January 5-8.
- Snider, J.S., D.M. Oosterhuis, B.W. Skulman, E.M. Kawakami, D.K. Storch. 2009. The effect of high temperature on pollen tube growth and energetics in the cotton pistil. Abstract. Proceedings of the Arkansas Academy of Sciences in Clarksville, AR, April 4-5.
- Snider, J.S., D.M. Oosterhuis, B.W. Skulman, E.M. Kawakami, D.K. Storch. 2009. The effect of high temperature on *in vivo* pollen tube growth, calcium levels, antioxidant response, and superoxide production in the cotton pistil. Abstract. Proceedings of the Arkansas Academy of Sciences in Clarksville, AR, April 4-5.
- Snider, J.S., D.M. Oosterhuis, B.W. Skulman, E.M. Kawakami, D.K. Storch. 2009. The effect of high temperature on pollen tube growth and energetics in the cotton pistil. Abstract. Proceedings of the American Society of Plant Biology annual meeting in Honolulu, HI, July 18-22.
- Snider, J.S., D.M. Oosterhuis, B.W. Skulman, E.M. Kawakami, D.K. Storch. 2009. High temperature inhibits fertilization efficiency, carbohydrate metabolism, and energy levels in cotton pistils. Abstract. Proceedings of the American Society of Agronomy annual meeting in Pittsburgh, PA, November 1-5.
- Oosterhuis, D.M., D. Loka, D. Storch, J.L. Snider, and E.M. Kawakami. 2009. Comparison of the defoliants ADIOS and DROPP for immediate physiological effect on leaf growth of field-grown cotton. pp. 42-45. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2008. Arkansas Agricultural Experiment Station.
- Snider, J., D.M. Oosterhuis, B.W. Skulman, E.M. Kawakami, and D.K. Storch. 2009. The effect of high temperature on *in vivo* pollen tube growth, calcium levels, antioxidant response, and superoxide production in the cotton pistil. pp. 46-51. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2008. Arkansas Agricultural Experiment Station.
- Snider, J., D.M. Oosterhuis, B.W. Skulman, E.M. Kawakami, and D.K. Storch. 2009. The effect of high temperature on pollen tube growth and energetics in the cotton pistil. pp. 52-57. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2008. Arkansas Agricultural Experiment Station.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2009. Effects of urea with NBPT and DCD on the yield of field-grown cotton. pp. 68-72. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2008. Arkansas Agricultural Experiment Station.
- Kawakami, E. M., D. M. Oosterhuis, and J.L. Snider. 2008. Effect of 1-MCP on the Physiology and Yield of Cotton. pp. 90-95. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2007. Arkansas Agricultural Experiment Station.
- Kawakami, E. M., D. M. Oosterhuis, and J.L. Snider. 2008. Effect of 1-MCP on Water Relations Parameters of Well-Watered and Water-Stressed Cotton Plants. pp. 96-101. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2007. Arkansas Agricultural Experiment Station.
- Kawakami, E. M., D. M. Oosterhuis, and J.L. Snider. 2008. Effect of 1-MCP on Antioxidants, Enzymes, Membrane Leakage, and Protein Content of Drought-Stressed Cotton Plants. pp. 102-107. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2007. Arkansas Agricultural Experiment Station.
- Kawakami, E. M., D. M. Oosterhuis, and J.L. Snider. 2008. Effect of 1-MCP on Ethylene Synthesis and Development of Cotton Flowers Under Normal and High Temperatures. pp.

108-113. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2007. Arkansas Agricultural Experiment Station.

- Kawakami, E. M., D. M. Oosterhuis, and J.L. Snider. 2008. Effect of 1-MCP on ethylene synthesis, development and physiology of cotton flowers under normal and high temperature. Abstract. Proceedings of the Plant Growth Regulation Society of America annual meeting in San Francisco, CA, August 3-7.
- Kawakami, E. M., D. M. Oosterhuis, and J. L. Snider. 2008. 1-methylcyclopropene effects on the physiology and yield of cotton. Abstract. Proceedings of the American Society of Agronomy annual meeting in Houston, TX, October 5-9.
- Snider, J. and J.S. Choinski, Jr. 2007. Developmental differences in leaf temperature, gas exchange, and photosynthetic temperature optima in Sumac. Abstract. Proceedings of the Arkansas Academy of Sciences Meeting, Dardanelle, AR, April 13-14.
- Snider, J. and J.S. Choinski, Jr. 2007. Gas exchange and leaf temperature changes in Smooth (*Rhus glabra* L.) and Winged (*Rhus copallina* L.) Sumac. Abstract. Proceedings of the Botanical Society of America annual meeting in Chicago, IL, July 7-11.
- Snider, J. and J.S. Choinski, Jr. 2007. Differences in chlorophyll fluorescence temperature optima of young and mature leaflets of Smooth Sumac (*Rhus glabra* L.) Abstract. Proceedings of the Botanical Society of America annual meeting in Chicago, IL, July 7-11.

#### **Extension Blog Posts [1]**

- Raper, T., A. Shekoofa, and **J. Snider**. 2018. Increased reports of boll cavitation. UTCrops News Blog. University of Tennessee, Institute of Agriculture.

#### **Newsletter Publications [10]**

- Snider, J, G Virk, V. Parkash, and C. Hand. 2022. Early season growth and canopy development. May 2022 Cotton Team Newsletter. University of Georgia Extension.
- Snider, JL, G. Virk, V. Parkash, and C. Hand. 2022. Planting date selection, germination, and emergence in cotton. April 2022 Cotton Team Newsletter. University of Georgia Extension.
- C. Hand and J.L. Snider. 2021. Cotton response to excessive rain, cloudy days, and management strategies. August 2021 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L., C. Hand, G. Virk. 2021. Causes of fruit shed. August 2021 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L., G. Virk, and C. Hand. 2021. Temperature and early-season crop growth. May 2021 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L., G. Virk, and C. Hand. 2021. Germination and stand establishment in cotton. April 2021 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L. and G. Virk. 2020. Causes of shedding in cotton. August 2020 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L. 2020. How to count nodes. July 2020 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L. and G. Virk. 2020. Temperature and early-season growth. June 2020 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L. and G. Virk. 2020. Germination and emergence in cotton. May 2020 Cotton Team Newsletter. University of Georgia Extension.

### **Popular Press [2]**

- Snider, J.L. 2017. Bloom Period Considerations-Specialists Speaking: Georgia. Cotton Farming, August, 2017. One Grower Publishing, LLC.
- Snider, J.L., S. Virk, L.C. Hand, W. Porter, and G. Virk. 2022. Considerations for stand establishment and early seedling growth in cotton. Crops and Soils Magazine, April, 2022. American Society of Agronomy.

### **Creative Contributions other than Publications: [16]**

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#### **Webinars [6]**

- Snider, J.L. 2019. Early-Season Physiology. UGA Cotton Thursday, Agent Webinar. May 2, 2019.
- Snider, J.L. 2019. Mid-Season Physiology. UGA Cotton Thursday, Agent Webinar. July 11, 2019.
- Snider, J.L. 2019. Late-Season Physiology. UGA Cotton Thursday, Agent Webinar. August 29, 2019.
- Snider, J.L. 2018. Early-Season Physiology. UGA Cotton Thursday, Agent Webinar. May 10, 2018.
- Snider, J.L. 2018. Mid-Season Physiology. UGA Cotton Thursday, Agent Webinar. July 5, 2018.
- Snider, J.L. 2018. Late-Season Physiology. UGA Cotton Thursday, Agent Webinar. August 30, 2018.

#### **Radio Programs [10]**

- Snider, J.L. 2016. Cotton Development Pre-Bloom. UGA Cotton Team Minute. WKZZ 92.5 FM. June 20.
- Snider, J.L. 2016. Seed and seedling responses to cool temperatures. UGA Cotton Team Minute. WKZZ 92.5 FM. February 8.
- Snider, J.L. 2016. Assessing heat tolerance in commercially available cotton cultivars UGA Cotton Team Minute. WKZZ 92.5 FM. March 21.
- Snider, J.L. 2015. Plant-Based Irrigation Scheduling. UGA Cotton Team Minute. WKZZ 92.5 FM. Feb 2.
- Snider, J.L. 2015. Heat Tolerance as a Tool for Predicting Variety Performance under Drought. UGA Cotton Team Minute. WKZZ 92.5 FM. Feb 16.
- Snider, J.L. 2015. The Importance of Seedling Vigor. UGA Cotton Team Minute. WKZZ 92.5 FM. April 20.
- Snider, J.L. 2015. Using heat units to estimate crop development. UGA Cotton Team Minute. WKZZ 92.5 FM. August 17.
- Snider, J.L. 2015. Using the University of Georgia Cotton Website. UGA Cotton Team Minute. WKZZ 92.5 FM. September 28.

- Snider, J.L. 2015. Cultural and Environmental Impacts on Fiber Quality. UGA Cotton Team Minute. WKZZ 92.5 FM. November 30.
- Snider, J.L. 2015. Physiological and Agronomic Responses of Cotton to Nitrogen Fertility in Georgia. UGA Cotton Team Minute. WKZZ 92.5 FM. December 21.

### **Pre-Collegiate Mentoring: [1 total]**

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- Abigail Toews. UGA Young Scholar Summer Internship Program. Summer 2019.

### **Graduate Student Mentoring: [33 total]**

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#### **Committee Chair**

- Bailey Lawson. 2021-Present. MS in Crop and Soil Sciences, University of Georgia
- Amrit Pokhrel. 2021-Present. MS in Crop and Soil Sciences, University of Georgia
- Joshua Lee. 2021-Present. MS in Crop and Soil Sciences, University of Georgia
- Devendra Chalise. 2021-Present. MS in Crop and Soil Sciences, University of Georgia
- Ved Parkash. 2021-Present. PhD in Crop and Soil Sciences, University of Georgia
- Gurpreet Virk. 2019-Present. PhD in Crop and Soil Sciences, University of Georgia
- Navneet Kaur. 2019-Present. PhD in Crop and Soil Sciences, University of Georgia
- Alessandro Ermanis. 2019-2020. MS in Crop and Soil Sciences, University of Georgia
- Gurpreet Virk. 2017-2019. MS in Crop and Soil Sciences, University of Georgia
- Stefano Gobbo. 2017-2018. MS in Crop and Soil Sciences, University of Georgia
- Calvin Meeks. 2014-2017. PhD in Crop and Soil Sciences, University of Georgia
- Daryl Chastain. 2012-2015. PhD in Crop and Soil Sciences, University of Georgia

#### **Committee Member**

- Kelvin Jimmy Awori. 2021-Present. PhD in Crop and Soil Sciences, University of Georgia
- Jasia Jannat. 2021-Present. PhD in Crop and Soil Sciences, University of Georgia
- Krishna Patel. 2022-Present. PhD in Entomology, University of Georgia
- Godfred Ankomah. 2022-Present. PhD in Crop and Soil Sciences, University of Georgia
- Shelby Sangster. 2020-Present. MS in Crop and Soil Sciences, University of Georgia
- Juliana Rodrigues. 2020-Present. PhD in Crop and Soil Sciences, University of Georgia
- Javier Sanchez. 2020-Present. MS in Engineering, University of Georgia
- David Weisberger. 2019-Present. PhD in Crop and Soil Sciences, University of Georgia
- Ana Julia Azevedo. 2018-Present. PhD in Crop and Soil Sciences, University of Georgia
- Simerjeet Virk. 2017-2020. PhD in Crop and Soil Sciences, University of Georgia
- Luke Fuhrer. 2019-2022. MS in Crop and Soil Sciences, University of Georgia
- S. Brad Davis. 2018-Present. MS in Crop and Soil Sciences, University of Georgia
- Lorena Lacerda. 2017-Present. PhD in Crop and Soil Sciences, University of Georgia
- Krishna Katwal. 2018 to Present. PhD in Crop and Soil Sciences, University of Georgia
- David Daughtry. 2017 to Present. MS in Crop and Soil Sciences, University of Georgia
- Seth Byrd. 2013 to 2015. PhD in Crop and Soil Sciences, University of Georgia
- Geoffrey Weaver. 2017-2019. PhD in Horticulture, University of Georgia
- Bhupinder Singh. 2016-2019. PhD, Plant and Soil Sciences, Mississippi State University
- Jonathon Fox. 2016-2018. MS in Crop and Soil Sciences, University of Georgia
- Harold Owiti. 2014 to 2015. MS in Biology, University of Central Arkansas

- Calvin Meeks. 2012 to 2013. MS in Crop and Soil Sciences, University of Georgia

### **Postdoctoral Advising: [2 total]**

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- Wei Hu. Postdoctoral Research Fellow Adjunct. 2017-2018.
- Nuengsap Thangthong. Postdoctoral Research Fellow Adjunct. January 2018-December 2018.

### **Teaching Experience:**

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- **Crop Physiology (CRSS 4450/6650):** University of Georgia
  - Spring 2022
  - Spring 2020
  - Spring 2018
  - Spring 2016
  - Spring 2014
- **Advanced Crop Production (CRSS 8050):** University of Georgia
  - Summer 2021
  - Summer 2019
  - Summer 2017
  - Summer 2015
  - Summer 2013
- **Advanced Topics (CRSS 8220; Crop Physiology Case Histories):** University of Georgia
  - Spring 2022
- **Supervised Teaching Practicum in CRSS (CRSS 9990):** University of Georgia
  - Spring 2022
  - Summer 2021
- **Special Problems in CRSS (CRSS 8210):** University of Georgia,
  - Fall 2021
  - Fall 2015
- **Sustainable Agriculture: Perspectives from Abroad:** University of Padova, Italy
  - Fall 2021
- **Crop Science (CRSS 2010):** University of Georgia
  - Fall 2018, Team Taught (My portion = 20 Lectures @ 50 min each)
- **Pesticides and Transgenic Crops:** Guest lecture-PGRs, University of Georgia.
  - Spring 2019
  - Spring 2018
  - Spring 2017
  - Spring 2016
  - Spring 2015
- **Economic Botany:** Guest lecture, University of Central Arkansas, Fall 2011.
- **Advanced Crop Science:** Guest lecturer, University of Arkansas, Spring 2010.
- **Crop Physiology:** Teaching assistant (lectures), University of Arkansas, Fall 2009.
- **Cotton Production:** Guest lecturer, University of Arkansas,
  - Fall 2008
  - Spring 2021
- **Plant Ecophysiology:** Guest lecturer, University of Central Arkansas, Fall 2006.

- **Genetics:** Laboratory instructor, University of Central Arkansas, Fall 2005 and Spring 2007.
- **Principles of Biology II:** Guest laboratory instructor, University of Central Arkansas, Fall 2005.
- **Principles of Biology I:** Laboratory instructor, University of Central Arkansas, Spring-Fall 2006.
- **Biological Sciences:** Tutor, Rich Mountain Community College, Spring-Summer I 2003.

### **International Involvement**

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- **Invited Instructor:** Sustainable Agriculture: Perspectives from Abroad, University of Padova, Italy, Fall 2021 (Also noted in Teaching section above).
- **Conference:** Plant Biology Europe FESP/EPSON 2014 Congress in Dublin, Ireland, June 2014 (Also Noted in Professional Development and Presentations Section)
- **Invited Collaboration:** Nanjing Agricultural University. College of Agriculture. July 21 to August 2, 2017. Consisted of giving presentations, advising graduate students, and collaborating on research papers in Dr. Zhiguo Zhou's Cotton Physiology Laboratory.
- **Visiting Scholar Hosted:** Jie Zou, Nanjing Agricultural University. Visiting Graduate Student Researcher, November 2019-2020.
- **Visiting Scholar Hosted:** Min Gao, Nanjing Agricultural University. Visiting Graduate Student Researcher, November 2018-November 2019.
- **Visiting Scholar Hosted:** Sheng Fang, Nanjing Agricultural University. Visiting Graduate Student Researcher, November 2017-November 2018.
- **Visiting Scholar Hosted:** Haimiao Wang, Nanjing Agricultural University. Visiting Graduate Student Researcher, October 2016-November 2017.
- **Visiting Scholar Hosted:** Yinglong Chen, Nanjing Agricultural University. Visiting Graduate Student Researcher, January 2016-January 2017.
- **Visiting Undergraduate Intern:** Leonardo Galdi, Universidade do Oeste Paulista, Brazil. June 2019-December 2019.
- **Visiting Undergraduate Intern:** Mario A. Scolari, College of Agriculture, University of São Paulo, São Paulo, Brazil, May 2017-December 2017.

### **Presentations:**

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#### *Invited Presentations* [58]

- Cotton Physiology. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 26, 2022.
- Cotton Physiology. Southeast District Agent Training-Cotton Production Update. University of Georgia, Reidsville, GA, January 18, 2022.
- Cotton Physiology. Southwest District Agent Training-Cotton Production Update. University of Georgia, Tifton, GA, January 19, 2022.
- Cotton Physiology. Agronomic Crops Agent Training Field Day. University of Georgia, Tifton, GA, June 10, 2021.

- Cotton Physiology. 2021 Georgia Cotton Commission Research Review Day. University of Georgia, Tifton, GA, July 16, 2021.
- Cotton Physiology. UGA Cotton-Peanut Field Day. University of Georgia, Tifton, GA, September 8, 2021.
- Causes of Square and Fruit Shed in Cotton. 2021 Cotton Production Agent Training. January 13, 2021.
- Physiological Aspects of Cotton Fruit Shed. Oral Presentation. Consultant's Conference, Beltwide Cotton Conferences. Virtual Annual Meeting. January 5, 2021.
- Cotton Agronomics and Physiology. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 29, 2020.
- Causes of Square and Boll Shed in Cotton. Louisiana Agricultural Technology and Management Conference. Marksville, LA, February 13, 2020.
- Cotton Physiology. UGA Cotton-Peanut Field Day. University of Georgia, Tifton, GA, September 9, 2020.
- How Plants Use Water. 4H2O Summer Camp, Stripling Irrigation Research Park Field Day. University of Georgia, Camilla, GA, June 12, 2019.
- Cotton Physiology. Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, July 26, 2019.
- Cotton Physiology. UGA Cotton-Peanut Field Day. University of Georgia, Tifton, GA, September 4, 2019.
- Crop Growth and Development. UGA STEM in Action Day. University of Georgia, Tifton, GA, September 11, 2019.
- Crop Physiology and Crop Water Stress Index. UGA STEM in Action Day. University of Georgia, Tifton, GA, March 20, 2019.
- Cotton Physiology. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 30, 2019.
- Cotton Physiology. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 31, 2018.
- Cotton Physiology. 2017 UGA Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 6, 2017.
- Cotton Physiology. Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 23, 2017.
- Introduction to the Cotton Physiology Lab. Nanjing Agricultural University, Nanjing, China. July 24, 2017.
- Stress Physiology. Nanjing Agricultural University, Nanjing, China. August 1, 2017.
- Physiology and Metabolism. Expanding Agricultural Boundaries Meeting. Cotton Incorporated. Cary, NC March 14-15, 2017.

- Cotton Physiology. Southeast District Agent Training-Cotton Production Update. University of Georgia, Reidsville, GA, January 10, 2017.
- Cotton Physiology. Southwest District Agent Training-Cotton Production Update. University of Georgia, Tifton, GA, January 9, 2017.
- Cotton Physiology. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 27, 2016.
- Cotton Physiology. Southeast District Agent Training-Cotton Production Update. University of Georgia, Reidsville, GA, January 28, 2016.
- Cotton Physiology. Southwest District Agent Training-Cotton Production Update. University of Georgia, Tifton, GA, January 26, 2016.
- Plant Physiology and Irrigation Management. Precision Agriculture and Irrigation Agent Training. University of Georgia, Tifton, GA, November 29, 2016.
- Plant Physiology and Irrigation Management. Precision Agriculture and Irrigation Agent Training. University of Georgia, Statesboro, GA, December 1, 2016.
- Cotton Physiology. Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 24, 2016.
- Cotton Physiology. 2016 UGA Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 7, 2016.
- Drought, High Temperature Tolerance Screening, and Plant Based Irrigation Scheduling. University of Georgia Stripling Irrigation Research Park, Camilla, GA, July 8, 2015.
- Plant Based Irrigation Scheduling. Georgia Cotton Commission Congressional Staff Tour. Camilla, GA, October 13, 2015.
- Plant-Based Irrigation Scheduling. Senator Perdue Agricultural Advisor Visit. University of Georgia Stripling Irrigation Research Park, Camilla, GA September 1, 2015.
- Cotton Physiology Program. International Textile Manufacturers Federation Spinners Committee Visit. Georgia Cotton Commission. Tifton, GA, September 18, 2015.
- Cotton Physiology. 2015 Cotton Breeders' Tour. Cotton Incorporated. Tifton, GA, September 17, 2015.
- Plant Physiology and Irrigation Management. Precision Agriculture and Irrigation Agent Training. University of Georgia, Tifton, GA, December 1, 2015.
- Plant Physiology and Irrigation Management. Precision Agriculture and Irrigation Agent Training. University of Georgia, Statesboro, GA, December 3, 2015.
- Cotton Physiology. 2015 UGA Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 9, 2015.
- Cotton Physiology. Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 26, 2015.
- Cotton Physiology. Agronomic Crops Agent Training Field Day. University of Georgia, Tifton, GA, June 25, 2015.
- Advanced Irrigation-Physiology Research Developments. Auburn Row Crops Irrigation Training. Opelika, AL, March 19, 2015.



- Cotton sensitivity to water stress. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 28, 2015.
- Cotton sensitivity to water stress. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 22, 2014.
- Spoke to a group of visitors from Senegal about cotton irrigation management and potential collaboration between Senegal and UGA. Stripling Irrigation Research Park, Camilla, GA, September 25, 2014.
- Cotton Physiology. University of Georgia Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 10, 2014.
- Cotton Physiology. Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 27, 2014.
- Spoke to a group of producers from Argentina about cotton physiology and cotton production in Georgia. 2013 Georgia Cotton Tour. University of Georgia, Tifton, GA, October 17, 2013.
- Cotton sensitivity to water stress. Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 30, 2013.
- Cotton Physiology. Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 28, 2013.
- Cotton Physiology. University of Georgia Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 11, 2013.
- Cotton performance under full and deficit irrigation; cotton fungicide effects. Stripling Irrigation Research Park Field Day. University of Georgia, Camilla, GA, August 1, 2013.
- Cotton production with SDI vs. overhead irrigation. Stripling Irrigation Research Park Field Day. University of Georgia, Camilla, GA, August 1, 2013.
- Cotton Physiology. Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 29, 2012.
- Cotton Physiology. Agronomic Crops Agent Training Field Day. University of Georgia, Tifton, GA, June 28, 2012.
- Cotton Physiology. University of Georgia Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 12, 2012.
- Snider, J.L. and D.M. Oosterhuis. The effect of high temperature stress on floral development and yield of cotton. Oral Presentation. Cotton Stress Physiology Symposium. Beltwide Cotton Conferences in New Orleans, LA, January 4-7, 2010.

*Other Professional Presentations* [45]

- The effect of cultivar and growth temperature on root system growth and root anatomy. Beltwide Cotton Conferences. San Antonio, TX. January, 2022.
- Photosynthetic cold acclimation in cotton seedlings. Poster Presentation. Beltwide Cotton Conferences. Virtual Annual Meeting. January, 2021.

- Effects of cultivar, irrigation management, and PGR strategy on cotton yield and maturity. Oral Presentation. Beltwide Cotton Conferences. Virtual Annual Meeting. January, 2021.
- Effects of cultivar, irrigation management, and PGR strategy on cotton yield and maturity. Oral Presentation. Beltwide Cotton Conferences. Virtual Annual Meeting. January, 2021.
- Photosynthetic components differ in cold tolerance, but respiration primarily governs acclimation of net photosynthesis in cotton seedlings. Poster Presentation. 2020 Crop Science Society of America International Annual Meeting. Virtual. November, 2020.
- Processes contributing to photosynthetic cold acclimation in cotton seedlings. Oral Presentation. Beltwide Cotton Conferences in San Antonio, TX, January 3-5, 2018.
- Assessing physiological contributions of the first true leaf to seedling vigor for cotton under field conditions. Poster Presentation. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Seedling vigor and carbon dynamics of the first true leaf. Oral Presentation. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Seedling vigor and carbon dynamics of the first true leaf. Oral Presentation. Beltwide Cotton Conferences in Dallas, TX, January 4-6, 2017
- Multi-Location Assessment of Heat Tolerance in Six Commercially-Available Cotton Cultivars. Oral Presentation. Beltwide Cotton Conferences in Dallas, TX, January 4-6, 2017
- Physiological and Agronomic Response to N Fertility in Southern Georgia in a Long-Term Conservation Tillage System. Poster Presentation. Beltwide Cotton Conferences in Dallas, TX, January 4-6, 2017.
- Assessing Physiological and Agronomic Responses to Nitrogen Fertility for Cotton Grown Under Long-Term Conservation Tillage in Georgia Poster Presentation. ASA-CSSA-SSSA International Annual Meeting in Phoenix, AZ, November 6-9, 2016.
- Assessment of PSII heat tolerance for six commercially-available cotton cultivars across a range of production environments. Oral Presentation. ASA-CSSA-SSSA International Annual Meeting in Phoenix, AZ, November 6-9, 2016.
- Multi-location assessment of heat tolerance in six commercially-available cotton cultivars. Poster Presentation. Beltwide Cotton Conferences in New Orleans, LA, January, 2016.
- Predawn Respiration Predicts Lint Yield in Cotton When Yield Variability Is Water-Induced. Oral Presentation. Beltwide Cotton Conferences in New Orleans, LA, January, 2016.
- Transgenic Cotton Lines Over-Expressing Delta-12 Fatty Acid Desaturase (FAD2-4) Exhibit Improved Seedling Vigor Under Cool Temperatures. Poster Presentation. Beltwide Cotton Conferences in New Orleans, LA, January, 2016.
- The Impact of Seed Characteristics on Seedling Vigor and Lint Yield Across Five Yield Environments in Southern Georgia. Oral Presentation. Beltwide Cotton Conferences in New Orleans, LA, January, 2016.
- Assessing Physiological and Agronomic Responses of Cotton to Nitrogen Fertility in Southern Georgia. Poster Presentation. Beltwide Cotton Conferences in New Orleans, LA, January, 2016.

- Predawn respiration rates during flowering are highly predictive of yield response in *Gossypium hirsutum* when yield variability is water induced. Oral Presentation. ASA-CSSA-SSSA International Annual Meeting in Minneapolis, MN, November 2015.
- The effect of delta-12 fatty acid desaturase (FAD) gene expression on seedling vigor under cool temperatures. Poster Presentation. ASA-CSSA-SSSA International Annual Meeting in Minneapolis, MN, November 2015.
- Does thermotolerance plasticity influence yield stability? Oral Presentation. Beltwide Cotton Conferences in San Antonio, TX, January, 2015.
- Field-grown cotton exhibits seasonal variation in photosynthetic heat tolerance without exposure to heat stress or water deficit conditions. Poster Presentation. Beltwide Cotton Conferences in San Antonio, TX, January, 2015.
- Characterizing physiological responses to plant water status during progressive drought as a means to identify drought tolerance in commercially-available cotton cultivars. Poster Presentation. Beltwide Cotton Conferences in San Antonio, TX, January, 2015.
- Characterizing thermotolerance plasticity and yield stability for field-grown cotton cultivars. ASA-CSSA-SSSA International Annual Meeting in Long Beach, CA November 2014.
- Field-Grown *Gossypium hirsutum* plants exhibit seasonal variation in heat tolerance without exposure to heat stress or water deficit conditions. Poster Presentation. Plant Biology Europe FESPB/EPSO 2014 Congress in Dublin, Ireland, June 2014.
- Defining Physiological Thresholds under Water Deficit for Improved Plant-Based Irrigation Scheduling in Cotton. Poster Presentation. Plant Biology Europe FESPB/EPSO 2014 Congress in Dublin, Ireland, June 2014.
- Plant-based irrigation scheduling. Oral Presentation. Beltwide Cotton Conferences in New Orleans, LA, January 2014.
- Physiological responses of three cotton genotypes to irrigation treatment and seasonal variation in the water status of the soil-plant-atmosphere continuum. Beltwide Cotton Conferences in San Antonio, TX, January 9, 2013.
- Field-grown cotton cultivars exhibit genotypic and seasonal differences in photosystem II heat tolerance. Beltwide Cotton Conferences in San Antonio, TX, January 10, 2013.
- The effect of row spacing and seeding rate on biomass production and plant stand characteristics of non-irrigated photoperiod-sensitive sorghum (*Sorghum bicolor* (L) Moench). Poster Presentation. American Society of Agronomy annual meeting in San Antonio, TX, October 16-19.
- Genotypic thermotolerance is associated with elevated pre-stress antioxidant enzyme activity in cotton leaves and pistils. Poster Presentation. Beltwide Cotton Conferences in Atlanta, GA, January 4-7, 2011.
- Genotypic differences in thermotolerance depend on pre-stress capacity for antioxidant protection of the photosynthetic apparatus in cotton. Poster Presentation. American Society of Agronomy annual meeting in Long Beach, CA, October 31-November 4.

- Genotypic differences in thermotolerance are dependent upon pre-stress capacity for antioxidant protection of the photosynthetic apparatus in cotton. Poster Presentation. Gamma Sigma Delta Competition, University of Arkansas, Fayetteville, AR, March, 2010.
- Genotypic differences in thermotolerance are dependent upon pre-stress capacity for antioxidant protection of the photosynthetic apparatus in cotton. Poster Presentation. Beltwide Cotton Conferences in New Orleans, LA, January 4-7, 2010.
- Improved nitrogen use efficiency in cotton using the inhibitors DBPT and DCD for maintenance of high yields but decreased input costs. Oral Presentation, Arkansas State Support Committee, Cotton Incorporated, Little Rock, AR, July 28, 2009.
- High temperature tolerance screening in cotton: enhanced instrumentation for improved varieties for sustainable cotton production. Oral Presentation, Arkansas State Support Committee, Cotton Incorporated, Little Rock, AR, July 28, 2009.
- Developmental differences in leaf temperature, gas exchange, and photosynthetic temperature optima in Sumac. Poster Presentation. Arkansas Academy of Sciences Meeting, Dardanelle, AR, April 13-14, 2007.
- The effect of high temperature on pollen tube growth and energetics in the cotton pistil. Poster Presentation. American Society of Plant Biologists annual meeting in Honolulu, HI, July 18-22, 2009.
- The effect of high temperature on *in vivo* pollen tube growth, calcium levels, antioxidant response, and superoxide production in the cotton pistil. Poster Presentation. Arkansas Academy of Sciences in Clarksville, AR, April 4-5, 2009.
- The effect of high temperature on pollen tube growth and energetics in the cotton pistil. Oral Presentation. Arkansas Academy of Sciences in Clarksville, AR, April 4-5, 2009.
- Heat stress-induced changes in pollen tube growth, calcium levels, antioxidant defense, and superoxide production in cotton pistils. Poster Presentation. Gamma Sigma Delta Competition, University of Arkansas, Fayetteville, AR, February, 2009.
- The effects of heat stress on pollen tube growth, carbohydrate metabolism, and energy levels in cotton pistils. Oral Presentation. Gamma Sigma Delta Competition, University of Arkansas, Fayetteville, AR, February, 2009.
- The effects of heat stress on pollen tube growth, carbohydrate metabolism, and energy levels in cotton pistils. Oral Presentation. Beltwide Cotton Conferences in San Antonio, TX, January 5-8, 2009.
- Heat stress-induced changes in pollen tube growth, calcium levels, antioxidant defense, and superoxide production in cotton pistils. Poster Presentation. Beltwide Cotton Conferences in San Antonio, TX, January 5-8, 2009.
- Differences in chlorophyll fluorescence temperature optima of young and mature leaflets of Smooth Sumac (*Rhus glabra* L.) Poster Presentation. Botanical Society of America annual meeting in Chicago, IL, July 7-11, 2007.
- Gas exchange and leaf temperature changes in Smooth (*Rhus glabra* L.) and Winged (*Rhus copallina* L.) Sumac. Poster Presentation. Botanical Society of America annual meeting in Chicago, IL, July 7-11, 2007.

## **Funding:**

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*Funded Grants* →[\$3,412,051 Total]

- **PI** → Physiological research to improve yield and production efficiency in Georgia cotton. Georgia Cotton Commission, CY 2022: **\$82,876**.
- **PI** → Acclimation of photosynthetic components as a predictor of early plant growth response to temperature extremes in cotton. Cotton Incorporated, CY 2022: **\$25,000**.
- **PI** → Multi-environment quantification of extra-floral nectar production in modern and obsolete cotton cultivars. USDA-ARS, Non-Assistance Cooperative Agreement. May 1, 2021 to April 30, 2023: **\$100,000**.
- **PI** → Cotton physiology research to improve yield potential and decrease early season risk for elite cotton breeding lines in Georgia. Georgia Cotton Commission, 2021: **\$80,876**.
- **PI** → Physiology and molecular genetics of wilt induced by cotton leaf roll dwarf virus. Cotton Incorporated, 2021: **\$10,000**.
- **PI** → Beltwide seed quality. An extension specialist project. Cotton Incorporated, 2021: **\$6,000**.
- **PI** → Assessing the Physiological Basis of Genetic Yield Improvement and Seedling Vigor in Populations Derived From Advanced Breeding Lines. Cotton Incorporated, 2021: **\$25,000**.
- **PI** → Impact of Planting Seed Characteristics on Seedling Vigor, Crop Development, Maturity, and Yield Component Responses to Nitrogen Application Rate. Georgia Cotton Commission, 2020: **\$82,825**.
- **PI** → Assessing the Physiological Basis of Genetic Yield Improvement and Seedling Vigor in Populations Derived From Advanced Breeding Lines. Cotton Incorporated, 2020: **\$25,000**.
- **PI** → Beltwide seed quality. An extension specialist project. Cotton Incorporated, 2020: **\$6,000**.
- **PI** → Physiology and molecular genetics of wilt induced by cotton leaf roll dwarf virus. Cotton Incorporated, 2020: **\$35,000**.
- **PI** → Assessing the Physiological Basis of Genetic Yield Improvement and Seedling Vigor in Populations Derived From Advanced Breeding Lines. Cotton Incorporated, 2019: **\$25,000**.
- **PI** → Effect of Environment on Cotton Cultivar Development. Cotton Incorporated, 2019: **\$6,000**.
- **PI** → Multiple Pass versus One Pass Harvesting Project. Cotton Incorporated, 2019: **\$15,000**.
- **PI** → Impact of Planting Seed Characteristics on Seedling Vigor, Crop Development, Maturity, and Yield Component Responses to Nitrogen Application Rate. Georgia Cotton Commission, 2019: **\$79,670**.
- **PI** → Assessing the response of asparaginase overexpressing lines to N fertility under field conditions. Cotton Incorporated, 2018: **\$25,000**.
- **PI** → Impact of planting seed characteristics on seedling vigor, crop development, maturity, and yield component responses to nitrogen application rate. Georgia Cotton Commission, 2018: **79,670**.

- **PI** → Identifying critical seeding rates, planting depths, and temperature conditions for specific seed characteristics in cotton. Cotton Incorporated, 2018: **15,000**.
- **PI** → Using Remote Sensing to Develop Dynamic Irrigation Management Zones. United States-Israel Binational Agricultural Research and Development Fund, 2017-2019: **310,000**.
- **PI** → Identifying critical seeding rates, planting depths, and temperature conditions for specific seed characteristics in cotton. Georgia Agricultural Commodity Commission for Cotton, 2017: **74,268**.
- **PI** → Identifying critical seeding rates, planting depths, and temperature conditions for specific seed characteristics in cotton. Cotton Incorporated, 2017: **15,000**.
- **PI** → Identifying critical seeding rates, planting depths, and temperature conditions for specific seed characteristics in cotton. Cotton Incorporated, 2016: **15,000**.
- **PI** → Using rapid techniques to identify drought sensitivity in commercial cotton cultivars and using plant –based irrigation triggers to quantify water savings with a rye cover crop. Georgia Agricultural Commodity Commission for Cotton, 2016: **74,000**.
- **PI** → Using rapid techniques to identify drought sensitivity in commercial cotton cultivars and using plant –based irrigation triggers to quantify water savings with a rye cover crop. Georgia Agricultural Commodity Commission for Cotton, 2015: **74,000**.
- **PI** → Utilization of Sub-Surface Drip Irrigation and Plant- Based Triggers for Improving Irrigation Efficiency and Defining Drought Sensitivity in Commercial Cotton Cultivars. Georgia Agricultural Commodity Commission for Cotton, 2014: **74,000**.
- **PI** → Evaluating remote sensing technology in a leaf water potential-based irrigation scheduling system (Renewal). Cotton Incorporated, 2014: **15,000**.
- **PI** → Utility of sub-surface drip irrigation for yield enhancement beyond normal irrigation termination with regard to plant water potential triggers. Georgia Agricultural Commodity Commission for Cotton, 2013: **70,000**.
- **PI** → Evaluating remote sensing technology in a leaf water potential-based irrigation scheduling system. Cotton Incorporated, 2013: **15,000**.
- **PI** → Multi-location subsurface drip irrigation cultivar performance. Georgia Agricultural Commodity Commission for Cotton, 2012: **54,000**.
- **PI** → Gas exchange and leaf temperature changes in Smooth Sumac. University of Central Arkansas Student Research Fund, 2006/2007: **1,340**.
- **Co-PI** → Beltwide N refinement study. Cotton Incorporated. 2021: **\$5,000**.
- **Co-PI** → Applying practical agricultural engineering solutions to planting, irrigation management, and fiber quality during harvest of cotton for development recommendations for Georgia producers. Georgia Cotton Commission. 2020: **\$70,000**.
- **Co-PI** → Utilization of Cotton Harvest Identification Data for Making Better Production Decisions. Cotton Incorporated. 2020: **\$20,000**.
- **Co-PI** → Evaluation of cotton replant strategies at various plant densities and gaps in stand. Georgia Cotton Commission. 2020: **\$19,609**.

- **Co-PI** → Utilizing precision technologies to improve cotton fiber quality during production, harvest, and ginning. USDA-ARS. 2020-2023: **\$450,000**.
- **Co-PI** → Improving sustainability of Georgia cotton by increasing nitrogen and water use efficiencies. Georgia Cotton Commission. 2020: **\$29,000**.
- **Co-PI** → Assessment of uniform vs non-uniform plant stands of varying plant populations for non-irrigated cotton. Georgia Cotton Commission. 2019: **\$18,953**.
- **Co-PI** → Investigation of individual planter components on seed placement and methods to utilize seedling vigor for compensation. Georgia Cotton Commission. 2019: **\$25,220**.
- **Co-PI** → Accelerating progress toward intrinsic genetic solutions to sustainable agricultural intensification. Growing Convergence Research, National Science Foundation. 2019-2021: **1,200,000**.
- **Co-PI** → Investigation of individual planter components on seed placement and methods to utilize seedling vigor for compensation. Georgia Cotton Commission. 2018: **\$25,220**.
- **Co-PI** → Planter performance and its influence on seedling vigor, emergence, and yield. Cotton Incorporated, 2016: **15,000**.
- **Co-PI** → Improving cotton production in Georgia with proper variety selection, and production management decisions. Georgia Agricultural Commodity Commission for Cotton 2016: **40,000**.
- **Co-PI** → Improving cotton production in Georgia with proper variety selection, and production management decisions. Georgia Agricultural Commodity Commission for Cotton 2015: **38,000**.
- **Co-PI** → A holistic solution to using soil moisture data for scheduling irrigation. Georgia Agricultural Commodity Commission for Cotton, 2014: **35,500**.
- **Co-PI** → On-farm evaluation of new cotton varieties, yield optimization strategies with irrigation and quantifying potential production risks of up and coming technologies. Georgia Agricultural Commodity Commission for Cotton, 2013: **37,000**.
- **Co-PI** → Improving cotton production in Georgia with proper variety selection, and production management decisions. Georgia Agricultural Commodity Commission for Cotton, 2013: **35,000**.
- **Co-PI** → Identification and amelioration of heat stress in cotton during the flowering period for yield stabilization. Cotton Incorporated Arkansas State Support Program, 2010: **\$15,000**.
- **Co-PI** → Improved nitrogen use efficiency in cotton using the inhibitors DBPT and DCD for maintenance of high yields but decreased input costs. Cotton Incorporated Arkansas State Support Program, 2009: **8,150**.
- **Co-PI** → High temperature tolerance screening in cotton: enhanced instrumentation for improved varieties for sustainable cotton production. Cotton Incorporated Arkansas State Support Program, 2009: **5,250**.

Contracts [\$401,418]

- Monsanto Company, 2013: **6,250**

- Bayer CropScience, 2014: **82,800**
- Monsanto Company, 2014: **6,250**
- BASF, 2014: **12,000**
- Monsanto Company, 2015: **6,250**
- Monsanto Company, 2016: **5,000**
- Monsanto Company, 2016: **\$15,000**
- Koch Biological Solutions Inc., 2016: **18,000**
- Koch Biological Solutions Inc., 2016: **24,000**
- Monsanto Company, 2017: **6,250**
- Koch Biological Solutions Inc., 2017: **18,401**
- Monsanto Company, 2015: **\$15,000**
- Indigo Agriculture, 2017: **\$31,365**
- Indigo Agriculture, 2018: **\$67,748**
- Koch Biological Solutions Inc., 2018: **\$14,400**
- Indigo Agriculture, 2019: **\$35,984**
- Indigo Agriculture, Inc., 2020: **24,480**
- BASF, 2020: **12,240**
- Indigo Agriculture, Inc., 2020: **9,486**

Gifts [\$287,700]

- Novozymes, 2013: **3,000**
- Syngenta, 2013: **30,000**
- Phytogen, 2013: **6,000**
- Syngenta, 2014: **46,000**
- Phytogen, 2014: **8,000**
- Agrofresh, 2014: **20,000**
- Emery Oleochemicals, 2014: **2,800**
- BASF, 2015: **16,000**
- Bayer, 2015: **12,000**
- Syngenta, 2015: **24,000**
- Phytogen, 2015: **8,000**
- Israel Chemicals Ltd., 2016: **11,300**
- Phytogen, 2016: **14,500**



- Phytogen, 2017: **10,000**
- Plant Response, 2017: **\$8,000**
- TIMAC Agro USA, 2017: **\$6,500**
- Bayer CropScience, 2018: **\$6,750**
- Phytogen, 2018: **10,000**
- Plant Response, 2018: **6,000**
- Visjon Biologics, 2018: **\$1,000**
- BASF, 2019: **\$10,000**
- Valent, 2019: **\$4,000**
- Plant Response, 2019: **\$10,000**
- BASF, 2020: **6,300**
- Nutrien Ltd., 2020: **2,800**
- Chem Nut Inc., 2020: **2,750**
- PhytoGen, 2020: **2,000.**

#### **Service:**

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##### Editorships

- **Associate Editor:** Field Crops Research. (2021-present)
- **Associate Editor:** Crop, Forage and Turfgrass Management. (*January 2019-December 2021*)
- **Associate Editor:** Crop Science. (*January 2017-December 2019*)
- **Editor:** Journal of Cotton Science, Special issue on *Carbon Dynamics in Cotton* 20:195-252.
- **Senior Editor:** 2015 Georgia Cotton Research and Extension Report. (*Published 2016*)
- **Co-Editor:** 2014 Georgia Cotton Research and Extension Report. (*Published 2015*)
- **Co-Editor:** 2013 Georgia Cotton Research and Extension Report. (*Published 2014*)
- **Co-Editor:** 2012 Georgia Cotton Research and Extension Report. (*Published 2013*)

##### Professional Conference Chair and Committee Involvement

- **Past Chair:** Crop Physiology and Metabolism Division, Crop Science Society of America, 2020.
- **Chair:** Crop Physiology and Metabolism Division, Crop Science Society of America, 2019.
- **Chair-Elect:** Crop Physiology and Metabolism Division, Crop Science Society of America, 2018.
- **Chair:** Agronomy and Physiology Conference, 2015 Beltwide Cotton Conferences: Responsibilities encompassed portions of 2014 and 2015.

- **Co-Chair:** Agronomy and Physiology Conference, 2014 Beltwide Cotton Conferences: Responsibilities encompassed portions of 2013 and 2014.
- **Steering Committee Member:** Agronomy and Physiology Conference, Beltwide Cotton Conferences: 2015-2017.

#### Symposia Coordinated

- **Symposium Coordinator:** *The Plant Microbiome and Abiotic Stress Tolerance*. Crop Science Society of America International Annual Meeting, 2019.
- **Symposium Coordinator:** *Linking Physiology to Management*. Agronomy and Physiology Conference, 2014 Beltwide Cotton Conferences.
- **Symposium Coordinator:** *Carbon Dynamics in Cotton*. Agronomy and Physiology Conference, 2015 Beltwide Cotton Conferences.

#### Moderator

- **Regular Session**, Agronomy and Physiology Conference, 2022 Beltwide Cotton Conferences.
- **Moderator:** C02, Crop Physiology and Metabolism. Regular Session. ASA, CSSA, and SSSA International Annual Meeting in Tampa, FL, October 22-25, 2017.
- **Moderator:** Regular Session, Agronomy and Physiology Conference, 2013 Beltwide Cotton Conferences. January 10, 2013.

#### Judging Student Competitions

- **Agronomy and Physiology Conference.** MS Graduate Student Oral Competition. 2021 Beltwide Cotton Conferences, January, 2021.
- **Agronomy and Physiology Conference.** PhD Graduate Student Oral Competition. 2021 Beltwide Cotton Conferences, January, 2021.
- **Agronomy and Physiology Conference.** PhD Graduate Student Oral Competition. 2018 Beltwide Cotton Conferences in San Antonio, TX, January 3-5, 2018.
- **Session C02, Crop Physiology and Metabolism.** Graduate Student Oral Competition. ASA, CSSA, and SSSA International Annual Meeting in Tampa, FL, October 22-25, 2017.
- **Engineering Conference.** Student poster competition. 2017 Beltwide Cotton Conferences in Dallas, TX, January 4-6, 2017.
- **Agronomy and Physiology Conference.** MS Graduate Student Poster Competition. 2017 Beltwide Cotton Conferences in Dallas, TX, January 4-6, 2017.
- **Session C02, Crop Physiology and Metabolism.** Graduate Student Oral Competition. ASA, CSSA, and SSSA International Annual Meeting in Phoenix, AZ, November 6-9, 2016.
- **Session C02, Crop Physiology and Metabolism.** Graduate Student Oral Competition. ASA, CSSA, and SSSA International Annual Meeting in Tampa, FL, November 3-6, 2013.
- **Sigma-Xi.** Graduate Student Poster Competition. Tifton, GA, April 16, 2015.

#### Peer Review

- **Peer Review for the Following Journals:** [10 to 15 per year]

Acta Physiologiae Plantarum; Agronomy Journal; Archives of Agronomy and Soil Science; Biochimica et Biophysica Acta – Bioenergetics; Crop, Forage, & Turfgrass Management; Crop Science; Environmental and Experimental Botany; European Journal of Agronomy; Field Crops Research; Functional Plant Biology; International Journal of Plant and Soil Science; Industrial Crops and Products; Journal of Plant Nutrition and Soil Science; Journal of Plant Physiology; Journal of Agronomy and Crop Science; Journal of the American Society for Horticultural Science; Journal of Agricultural Science; Journal of Cotton Science; Plant Ecology; Plant Physiology and Biochemistry; Plant, Cell & Environment; Physiologia Plantarum; Precision Agriculture; Trees: Structure and Function

- **Peer Review for the Following Grant Programs:** NSF BREAD (Basic Research to Enable Agricultural Development).

#### University Service

- **Committee Member:** Microgin manager search and screen committee. 2020/2021.
- **Committee Member:** Undergraduate Affairs Committee. College of Agricultural and Environmental Sciences. University of Georgia. 2017-2018.
- **Committee Member:** David Jespersen Mentoring Committee. Department of Crop and Soil Sciences: University of Georgia, 2017-present.
- **Committee Member:** David Jespersen Promotion and Tenure Committee. Department of Crop and Soil Sciences: University of Georgia, 2017-present.
- **Committee Member:** Cristiane Pilon Mentoring Committee. Department of Crop and Soil Sciences: University of Georgia, 2017-present.
- **Committee Member:** Cristiane Pilon Promotion and Tenure Committee. Department of Crop and Soil Sciences: University of Georgia, 2017-present.
- **Committee Chair:** Row Crop Physiologist Search and Screen Committee. 2016.
- **Committee Member:** Turf Physiologist Search and Screen Committee. 2015.
- **Committee Member:** Cotton Extension Specialist Search and Screen Committee. 2015.
- **Committee Member:** Sunbelt Ag Expo Committee, Department of Crop and Soil Sciences: University of Georgia, 2014.
- **Committee Member:** Research Committee, Crop and Weed Management Subcommittee, Department of Crop and Soil Sciences 2014 Program Review: University of Georgia.
- **Job Review Panel for Molecular Biologist Position.** Undergraduate Member. Henderson State University, Biology Department, 2005.
- **English Senator.** Student Government Association. Rich Mountain Community College, 2002-2003.

#### Honor Society Membership:

- **Sigma Xi-Scientific Research Society:** Tifton Chapter
- **Sigma Xi-Scientific Research Society:** University of Arkansas
- **Alpha Chi:** Henderson State University

- **Gamma Beta Phi:** Henderson State University
- **Phi Theta Kappa:** Rich Mountain Community College

### **Membership in Professional Organizations:**

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- Crop Science Society of America (11 years)
- Agronomy Society of America (6 years)
- Botanical Society of America
- Soil and Water Conservation Society

### **Awards and Recognition:**

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#### *Student Awards and Recognition [26]*

- **Gary A Herzog Fellowship for Applied Research in Cotton Agroecosystems.** *Joshua Lee (MS Student 2021-Present).*
- **Summer Research Grant Award.** University of Georgia Graduate School. *Ved Parkash (PhD Student 2021-Present).*
- **2<sup>nd</sup> Place;** Southern Branch Agronomy Society of America Annual Meeting PhD Oral Competition. New Orleans, LA, February 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **1<sup>st</sup> Place;** Southern Branch Agronomy Society of America Annual Meeting PhD Poster Competition. New Orleans, LA, February 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **2<sup>nd</sup> Place;** Southern Branch Agronomy Society of America Annual Meeting PhD Poster Competition. New Orleans, LA, February 2022. *Ved Parkash (PhD Student 2021-Present).*
- **G.O. Mott Meritorious Graduate Student Award in Crop Science.** Crop Science Society of America, 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **2<sup>nd</sup> Place;** Cotton Agronomy and Physiology Conference MS Oral Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Joshua Lee (MS Student 2021-Present).*
- **3<sup>rd</sup> Place;** Cotton Agronomy and Physiology Conference MS Poster Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Devendra Chalise (MS Student 2021-Present).*
- **3<sup>rd</sup> Place;** Cotton Agronomy and Physiology Conference PhD Oral Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **3<sup>rd</sup> Place;** Cotton Agronomy and Physiology Conference PhD Poster Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **3<sup>rd</sup> Place;** Crop Physiology and Metabolism Graduate Student Poster Competition. Crop Science Society of America annual meeting. November 2020. *Matthew Bruce (PhD student)*
- **2<sup>nd</sup> Place;** Cotton Agronomy and Physiology Conference MS Oral Competition. Beltwide Cotton Conferences in Austin, TX, January 2020. *Alessandro Ermanis (MS Student 2019-Present)*
- **1<sup>st</sup> Place;** Cotton Agronomy and Physiology Conference PhD Poster Competition. Beltwide Cotton Conferences in Austin, TX, January 2020. *Gurpreet Virk (PhD Student 2019-Present)*

- **3<sup>rd</sup> Place**; Crop Physiology and Metabolism Graduate Student Poster Competition. Crop Science Society of America annual meeting in San Antonio, TX, November 2019. *Alessandro Ermanis (MS Student 2019-Present)*
- **3<sup>rd</sup> Place**; Cotton Agronomy and Physiology Conference MS Poster Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2019. *Gurpreet Virk (MS Student 2017 to 2019)*
- **1<sup>st</sup> Place**; Cotton Agronomy and Physiology Conference MS Oral Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2019. *Gurpreet Virk (MS Student 2017 to 2019)*
- **2<sup>nd</sup> Place**; Crop Physiology and Metabolism Graduate Student Poster Competition. Crop Science Society of America annual meeting in Baltimore, MD, November 2018. *Gurpreet Virk (MS Student 2017 to 2019)*
- **1<sup>st</sup> Place**; Sigma Xi-Tifton Chapter, Fourth Annual Emory Cheek Research Poster Symposium Competition, Tifton, GA, April 2018. *Gurpreet Virk (MS Student 2017 to 2019)*
- **2<sup>nd</sup> Place**; Crops Section-Graduate Student Poster Competition. Southern Branch Agronomy Society of America annual meeting in Jacksonville, FL, February 2018. *Gurpreet Virk (MS Student 2017 to 2019)*
- **3<sup>rd</sup> Place**; Engineering-Systems Conference Graduate Student Oral Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2016. *Calvin Meeks (PhD Student 2014 to 2017)*
- **2<sup>nd</sup> Place**; Crops Section-Graduate Student Poster Competition. Southern Branch Agronomy Society of America annual meeting in San Antonio, TX, February 2016. *Calvin Meeks (PhD Student 2014 to 2017)*
- **Southeastern Superlative** (Highest ranking poster from the entire southeastern US); Student Scholarship Poster Competition. Annual Georgia Environmental Conference at Jekyll Island, Georgia, August 24-26, 2016. *Calvin Meeks (PhD Student 2014 to 2017)*
- **1<sup>st</sup> Place**; Cotton Agronomy and Physiology Conference PhD Student Poster Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2014. *Daryl Chastain (PhD Student 2012 to 2015)*
- **1<sup>st</sup> Place**; Crop Physiology and Metabolism Graduate Student Poster Competition. Crop Science Society of America annual meeting in Long Beach, CA, November 2 to November 5, 2014. *Daryl Chastain (PhD Student 2012 to 2015)*
- **2<sup>nd</sup> Place**; Cotton Agronomy and Physiology Conference PhD Student Poster Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2015. *Daryl Chastain (PhD Student 2012 to 2015)*
- **3<sup>rd</sup> Place**; Cotton Agronomy and Physiology Conference Graduate Student Oral Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2015. *Daryl Chastain (PhD Student 2012 to 2015)*

Personal Awards and Recognition [22]

- 2017 *Crop Science* Outstanding Associate Editor (Awarded 2018).

- 2016 *Crop Science* Outstanding Reviewer (Awarded 2017).
- 2015 Young Cotton Physiologist of the Year. Agronomy and Physiology Conference, Beltwide Cotton Conferences.
- Certificate of Merit; Performance appraisal rating of Exceeds. United States Department of Agriculture, October, 2011.
- 2011 TRiO Achiever Award; Arkansas Association of Student Assistance Programs, October 9, 2011.
- Outstanding Alumnus Award; Rich Mountain Community College, Mena, AR, May 5, 2011.
- Certificate of Merit; Performance appraisal rating of Superior. United States Department of Agriculture, October, 2010.
- 2<sup>nd</sup> Place; Crop Physiology and Metabolism Graduate Student Poster Competition. Crop Science Society of America annual meeting in Long Beach, CA, October 31 to November 4, 2010.
- 1<sup>st</sup> Place; NCERA-101/USDA Committee on Controlled Environment Technology and Use. Graduate Student Poster Competition, Madison, WI, March 20-23, 2010.
- 1<sup>st</sup> Place; Gamma Sigma Delta Ph.D. Student Competition, Poster Presentation, University of Arkansas, Fayetteville, AR, March 2, 2010.
- 1<sup>st</sup> Place; Cotton Agronomy and Physiology Conference Graduate Student Poster Competition. Beltwide Cotton Conferences in New Orleans, LA, January 4-7, 2010.
- Gerald O. Mott Meritorious Graduate Student Award in Crop Science. University of Arkansas Department of Crop, Soil, and Environmental Sciences. Fayetteville, AR, January 2010.
- 1<sup>st</sup> Place; Life Sciences Graduate Student Competition, Oral Presentation, Arkansas Academy of Sciences, Clarksville, AR, April 3-4, 2009.
- 2<sup>nd</sup> Place; Cotton Agronomy and Physiology Conference Graduate Student Poster Competition. Beltwide Cotton Conferences in San Antonio, TX, January 5-8, 2009.
- 2<sup>nd</sup> Place; Cotton Agronomy and Physiology Conference Graduate Student Oral Competition. Beltwide Cotton Conferences in San Antonio, TX, January 5-8, 2009.
- Award for the Outstanding Graduate Student in Cotton Research in Arkansas, Arkansas State Support Committee, Cotton Incorporated, 2009.
- Vernon I. Cheadle Student Travel Award, Botanical Society of America, 2007.
- Presidential Scholarship to Henderson State University. Rich Mountain Community College, May 2003.
- High Honors. Rich Mountain Community College, May 2003.
- Summa cum Laude. Henderson State University, May 2005.
- Outstanding Student in Biological Sciences. Rich Mountain Community College, 2003.
- Outstanding Student in Literature. Rich Mountain Community College, 2002.

## **Professional Development:**

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- Attended the Beltwide Cotton Conferences Annual Meeting. San Antonio, TX, 2022.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 26, 2022.
- Attended the Beltwide Cotton Conferences Annual Virtual Meeting, 2021.
- Attended the Plant Biology 2021 Annual Virtual Meeting. July, 2021.
- Attended the Beltwide Cotton Conferences Annual Virtual Meeting, 2020.
- Attended the ASA-CSSA Annual Virtual Meeting. 2020.
- Attended the Beltwide Cotton Conferences in Austin, TX, 2020.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 29, 2020.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 30, 2019.
- Attended the ASA, CSSA annual meeting in San Antonio, TX, November 8-11, 2019.
- Attended the ASA, CSSA annual meeting in Baltimore, MD November 4-7, 2018.
- Attended the Beltwide Cotton Conferences in San Antonio, TX, January 3-5, 2018.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 31, 2018.
- Attended the 2017 UGA Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 6, 2017.
- Attended the Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 23, 2017.
- Travelled to Nanjing Agricultural University to collaborate on mutually beneficial cotton physiology projects.
- Attended the Expanding Agricultural Boundaries Meeting hosted by Cotton Incorporated in Cary, NC March 14-15, 2017.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 25, 2017.
- Attended the ASA, CSSA, and SSSA annual meeting in Tampa, FL, October 22-25, 2017.
- Attended the Beltwide Cotton Conferences in Dallas, TX, January, 2017.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 27, 2016.
- Attended the Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 24, 2016.
- Attended the 2016 UGA Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 7, 2016.

- Attended the ASA, CSSA, and SSSA annual meeting in Phoenix, AZ, November, 2016.
- Attended the Beltwide Cotton Conferences in New Orleans, LA, January, 2016.
- Attended the University of Georgia Stripling Irrigation Research Park, Camilla, GA, July 8, 2015.
- Attended the 2015 Cotton Breeders' Tour. Cotton Incorporated. Tifton, GA, September 17, 2015.
- Attended the 2015 UGA Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 9, 2015.
- Attended the Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 26, 2015.
- Attended the Agronomic Crops Agent Training Field Day. University of Georgia, Tifton, GA, June 25, 2015.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 28, 2015.
- Attended the ASA, CSSA, and SSSA annual meeting in Minneapolis, MN, November 15-18, 2015.
- Completed the Li-Cor LI-6400 Advanced Training in Lincoln, NE, April 7-9, 2015.
- Attended the Beltwide Cotton Conferences in San Antonio, TX, January 5-7, 2015.
- Attended the ASA, CSSA, and SSSA annual meeting in Long Beach, CA, November 2-5, 2014.
- Attended the University of Georgia Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 10, 2014.
- Attended the Plant Biology Europe FESP/EPSON 2014 Congress in Dublin, Ireland, June 2014.
- Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 22, 2014.
- Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 27, 2014.
- Attended the Beltwide Cotton Conferences in New Orleans, LA, January 2014.
- Attended the Stripling Irrigation Research Park Field Day. University of Georgia, Camilla, GA, August 1, 2013.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 30, 2013.
- Attended the University of Georgia Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 11, 2013.
- Attended the Beltwide Cotton Conferences in San Antonio, TX, January 7-10, 2013.



- Attended the Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 28, 2013.
- Attended the University of Georgia Cotton and Peanut Research Field Day. University of Georgia, Tifton, GA, September 12, 2012.
- Attended the Georgia Cotton Commission Research Advisory Field Day. University of Georgia, Tifton, GA, June 29, 2012.
- Attended the Agronomic Crops Agent Training Field Day. University of Georgia, Tifton, GA, June 28, 2012.
- Attended the Southeast Climate Consortium semiannual meeting in Tifton, GA, November 13-15, 2012.
- Attended the Beltwide Cotton Conferences in Orlando, FL, January 3-6, 2012.
- Attended the ASA, CSSA, and SSSA annual meeting in San Antonio, TX, October 16-19, 2011.
- Attended the Beltwide Cotton Conferences in Atlanta, GA, January 4-7, 2011.
- Attended the ASA, CSSA, and SSSA annual meeting in Long Beach, CA, October 31-November 4.
- Attended the Beltwide Cotton Conferences in New Orleans, LA, January 4-7, 2010.
- Attended the American Society of Plant Biologists annual meeting in Honolulu, HI, July 18-22, 2009.
- Attended the Arkansas Academy of Sciences annual meeting in Clarksville, AR, April 4-5, 2009.
- Attended the Beltwide Cotton Conferences in San Antonio, TX, January 5-8, 2009.
- Attended the Beltwide Cotton Conferences in Nashville, TN, January 8-11, 2008.
- Attended the Botanical Society of America annual meeting in Chicago, IL, July 7-11, 2007.
- Attended the Arkansas Academy of Sciences annual meeting in Dardanelle, AR, April 13-14, 2007.
- Attended Grants 101: Professional Grant Proposal Writing. The Grant Institute, Little Rock, AR, December 3-5, 2007.