

John Snider

Professor (80% Research; 15% Teaching; 5% Service)
Department of Crop and Soil Sciences
University of Georgia
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1) ACADEMIC HISTORY

Education:

- **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:

- **Professor (Crop Physiology)**: University of Georgia, July 2023-Present
- **Associate Professor (Crop Physiology)**: University of Georgia, July 2018-June 2023
- **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.

Personal Awards and Recognition: [23 Total]

- 2023 DW Brooks Faculty Award for Excellence in Research. College of Agricultural and Environmental Sciences, University of Georgia.
- 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.
- Outstanding Alumnus Award; Rich Mountain Community College, Mena, AR, May 5, 2011.
- 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.
- Certificate of Merit; Performance appraisal rating of Superior. United States Department of Agriculture, October, 2010.

- 2nd 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.
- 1st Place; NCERA-101/USDA Committee on Controlled Environment Technology and Use. Graduate Student Poster Competition, Madison, WI, March 20-23, 2010.
- 1st Place; Gamma Sigma Delta Ph.D. Student Competition, Poster Presentation, University of Arkansas, Fayetteville, AR, March 2, 2010.
- 1st 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.
- 1st Place; Life Sciences Graduate Student Competition, Oral Presentation, Arkansas Academy of Sciences, Clarksville, AR, April 3-4, 2009.
- 2nd Place; Cotton Agronomy and Physiology Conference Graduate Student Poster Competition. Beltwide Cotton Conferences in San Antonio, TX, January 5-8, 2009.
- 2nd 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.

2) RESIDENT INSTRUCTION AND CONTINUING EDUCATION

Scheduled Instruction:

2013

- **Advanced Crop Production (CRSS 8050):** University of Georgia, Tifton, Summer 2013 [3 credit hours; 7 students enrolled].

2014

- **Crop Physiology (CRSS 4450/6650):** University of Georgia, Tifton, Spring 2014, [3 credit hours; 14 students enrolled].

2015

- **Advanced Crop Production (CRSS 8050):** University of Georgia, Tifton, Summer 2015 [3 credit hours; 8 students enrolled].

- **Special Problems in CRSS (CRSS 8210):** University of Georgia, Tifton, Fall 2015. [1 credit hour; 1 student]

2016

- **Crop Physiology (CRSS 4450/6650):** University of Georgia, Tifton, Spring 2016, [3 credit hours; 23 students enrolled].

2017

- **Advanced Crop Production (CRSS 8050):** University of Georgia, Tifton, Summer 2017 [3 credit hours; 11 students enrolled].

2018

- **Crop Physiology (CRSS 4450/6650):** University of Georgia, Tifton, Spring 2018, [3 credit hours; 17 students enrolled].
- **Crop Science (CRSS 2010):** University of Georgia, Fall 2018, Team Taught → My portion = 20 Lectures @ 50 min each. [3 credit hours; 19 students enrolled]

2019

- **Advanced Crop Production (CRSS 8050):** University of Georgia, Tifton, Summer 2019 [3 credit hours; 11 students enrolled].

2020

- **Crop Physiology (CRSS 4450/6650):** University of Georgia, Tifton, Spring 2020, [3 credit hours; 24 students enrolled].

2021

- **Advanced Crop Production (CRSS 8050):** University of Georgia, Tifton, Summer 2021 [3 credit hours; 24 students enrolled].
- **Sustainable Agriculture: Perspectives from Abroad.** University of Padova, Italy, Fall 2021 [14 students; 6 academic hours per week for eight weeks].
- **Supervised Teaching Practicum in CRSS (CRSS 9990):** University of Georgia, Tifton, Summer 2021. [1 credit hour; 1 student enrolled]
- **Special Problems in CRSS (CRSS 8210):** University of Georgia, Tifton, Fall 2021. [1 credit hour; 1 student]

2022

- **Advanced Topics in CRSS (CRSS 8220):** University of Georgia, Tifton, Spring 2022. [3 credit hours; 5 students enrolled]
- **Crop Physiology (CRSS 4450/6650):** University of Georgia, Tifton, Spring 2022. [3 credit hours; 29 students enrolled]
- **Supervised Teaching Practicum in CRSS (CRSS 9990):** University of Georgia, Tifton, Spring 2022, (100% responsibility). [3 credit hours; 1 student enrolled]
- **Crop Science (CRSS 2010):** University of Georgia, Fall 2022. [3 credit hours; 24 students enrolled]
- **Supervised Teaching Practicum in CRSS (CRSS 9990):** University of Georgia, Tifton, Fall 2022, (100% responsibility). [3 credit hours; 1 student enrolled]

2023

- **Advanced Crop Production (CRSS 8050):** University of Georgia, Tifton, Summer 2023 [In Process; 3 credit hours; 14 students enrolled].
- **Supervised Teaching Practicum in CRSS (CRSS 9990):** University of Georgia, Tifton, Summer 2023. [In Process; 3 credit hours; 1 student enrolled]

- **Crop Science (CRSS 2010):** University of Georgia, Fall 2023. [3 credit hours; 12 students enrolled]

Guest Lectures:

- **Pesticides and Transgenic Crops:** Guest lecture-PGRs, University of Georgia. Spring 2015, 2016, 2017, 2018, 2019.
- **Economic Botany:** Guest lecture, University of Central Arkansas, Fall 2011.
- **Advanced Crop Science:** Guest lecturer, University of Arkansas, Spring 2010.
- **Cotton Production:** Guest lecturer, University of Arkansas, Fall 2008, Spring 2021.
- **Plant Ecophysiology:** Guest lecturer, University of Central Arkansas, Fall 2006.

Other Teaching:

- **Crop Physiology:** Teaching assistant (lectures), University of Arkansas, Fall 2009.
- **Genetics:** Laboratory instructor, University of Central Arkansas, Fall 2005 and Spring 2007.
- **Principles of Biology II:** 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.

Graduate Student Supervision: [41 total]

Committee Chair [17]

- Emmanuella Bredu. 2023-Present. PhD in Crop and Soil Sciences, University of Georgia
- Comfort Adegbenro. 2023-Present. MS in Crop and Soil Sciences, University of Georgia
- Ashbin Bhat. 2023-Present. MS in Crop and Soil Sciences, University of Georgia
- Jhansy Katta. 2023-Present. PhD in Crop and Soil Sciences, University of Georgia
- Ved Parkash. 2021-Present. PhD in Crop and Soil Sciences, University of Georgia
- Joshua Lee. 2023-Present. PhD in Crop and Soil Sciences, University of Georgia
- Bailey Lawson. 2021-2023. MS in Crop and Soil Sciences, University of Georgia
- Amrit Pokhrel. 2021-2023. MS in Crop and Soil Sciences, University of Georgia
- Joshua Lee. 2021-2023. MS in Crop and Soil Sciences, University of Georgia
- Navneet Kaur. 2019-2023. PhD in Crop and Soil Sciences, University of Georgia
- Gurpreet Virk. 2019-2022. PhD in Crop and Soil Sciences, University of Georgia
- Devendra Chalise. 2021-2022. MS 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 [25]

- Anish Bhattarai. 2023-Present. MS in Crop and Soil Sciences, University of Georgia
- Ravi Seelam. 2023-Present. PhD in in Crop and Soil Sciences, University of Georgia
- Deepak Vitrakoti. 2023-Present. PhD in Crop and Soil Sciences, University of Georgia
- Mohit Kumar. 2023-Present. MS in Crop and Soil Sciences, University of Georgia

- Emily Bedwell. 2022-Present. PhD in Crop and Soil Sciences, University of Georgia
- 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. 2020-2022. 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. 2019-2022. 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. 2018-2021. MS in Crop and Soil Sciences, University of Georgia
- Lorena Lacerda. 2017-2021. PhD in Crop and Soil Sciences, University of Georgia
- Krishna Katwal. 2018 to 2021. PhD 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 Supervision: [3 total]

- Wei Hu. Postdoctoral Research Fellow Adjunct. 2017-2018.
- Nuengsap Thangthong. Postdoctoral Research Fellow Adjunct. January 2018-December 2018.
- Gurpreet Virk. Postdoctoral Research Associate. February-June 2023.

Pre-Collegiate Supervision [1]

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

Visiting Graduate Student Interns Hosted [5]

- **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 Interns Hosted [3]

- **Visiting Undergraduate Intern:** Ingrid Almeida, Sao Paulo State University, Brazil. July 2023-April 2024.
- **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.

Student Awards and Recognitions [39 total]

- **Crop Science Graduate Student Scholarship;** Crop Science Society of America, July 2023. *Ved Parkash (PhD Student 2021-Present)*
- **George Hugh Boyd Memorial Scholarship,** Graduate School, University of Georgia, June 2023. *Ved Parkash (PhD Student 2021-Present)*
- **2023 Summer Research Grant;** Graduate School, University of Georgia, May 2023. *Ved Parkash (PhD Student 2021-Present).*
- **Gerald O. Mott Meritorious Graduate Student Award in Crop Science;** Crop Science Society of America, March 2023. *Ved Parkash (PhD Student 2021-Present).*
- **2nd Place;** Southern Branch Agronomy Society of America Annual Meeting PhD Poster Competition. Oklahoma City, OK, February 2023. *Ved Parkash (PhD Student 2021-Present).*
- **3rd Place;** Cotton Engineering Systems Conference MS Oral Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2023. *Amrit Pokhrel (MS Student 2021-Present).*
- **1st Place;** Cotton Agronomy, Physiology and Soils Conference PhD Oral Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2023. *Navneet Kaur (PhD Student 2021-Present).*
- **1st Place;** Cotton Agronomy, Physiology and Soils Conference PhD Poster Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2023. *Ved Parkash (PhD Student 2021-Present).*
- **3rd Place;** Cotton Agronomy, Physiology and Soils Conference PhD Oral Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2023. *Ved Parkash (PhD Student 2021-Present).*
- **3rd Place;** Global Climate Change Community, American Society of Agronomy Annual Meeting. Graduate Student Competition. Baltimore, MD, November 2022. *Navneet Kaur (MS student, 2020-Present).*
- **1st Place;** Precision Agriculture Systems Community, American Society of Agronomy Annual Meeting. MS Poster Competition. Baltimore, MD, November 2022. *Amrit Pokhrel (MS student, 2021-Present).*
- **Outstanding Graduate Student Award.** 15th International Conference on Precision Agriculture. Minneapolis, MN, 2022. *Amrit Pokhrel (MS Student 2021-Present).*
- **Graduate Education advancement board fellowship for 2022/2023.** University of Georgia Graduate School. *Ved Parkash (PhD student 2021-present).*
- **Gary A Herzog Fellowship for Applied Research in Cotton Agroecosystems.** *Joshua Lee (MS Student 2021-Present).*

- **2022 Summer Research Grant Award.** University of Georgia Graduate School. *Ved Parkash (PhD Student 2021-Present).*
- **2nd Place;** Southern Branch Agronomy Society of America Annual Meeting PhD Oral Competition. New Orleans, LA, February 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **1st Place;** Southern Branch Agronomy Society of America Annual Meeting PhD Poster Competition. New Orleans, LA, February 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **2nd 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).*
- **2nd Place;** Cotton Agronomy and Physiology Conference MS Oral Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Joshua Lee (MS Student 2021-Present).*
- **3rd Place;** Cotton Agronomy and Physiology Conference MS Poster Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Devendra Chalise (MS Student 2021-Present).*
- **3rd Place;** Cotton Agronomy and Physiology Conference PhD Oral Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **3rd Place;** Cotton Agronomy and Physiology Conference PhD Poster Competition. Beltwide Cotton Conferences in San Antonio, TX, January 2022. *Gurpreet Virk (PhD Student 2019-Present).*
- **3rd Place;** Crop Physiology and Metabolism Graduate Student Poster Competition. Crop Science Society of America annual meeting. November 2020. *Matthew Bruce (PhD student)*
- **2nd Place;** Cotton Agronomy and Physiology Conference MS Oral Competition. Beltwide Cotton Conferences in Austin, TX, January 2020. *Alessandro Ermanis (MS Student 2019-Present)*
- **1st Place;** Cotton Agronomy and Physiology Conference PhD Poster Competition. Beltwide Cotton Conferences in Austin, TX, January 2020. *Gurpreet Virk (PhD Student 2019-Present)*
- **3rd 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)*
- **3rd 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)*
- **1st 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)*
- **2nd 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)*
- **1st Place;** Sigma Xi-Tifton Chapter, Fourth Annual Emory Cheek Research Poster Symposium Competition, Tifton, GA, April 2018. *Gurpreet Virk (MS Student 2017 to 2019)*

- **2nd 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)*
- **3rd Place**; Engineering-Systems Conference Graduate Student Oral Competition. Beltwide Cotton Conferences in New Orleans, LA, January 2016. *Calvin Meeks (PhD Student 2014 to 2017)*
- **2nd 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)*
- **1st 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)*
- **1st 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)*
- **2nd 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)*
- **3rd 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)*

Professional Development: [67 total]

- Attended the Plant Biology 2023 annual conference. Savannah, GA. August 5-9, 2023.
- Attended the Georgia Cotton Commission Mid-Year meeting. Statesboro, GA. July 26, 2023.
- Attended 2023 Southwest Cotton Physiology Meeting (virtual attendance). College Station, TX. February, 2023.
- Attended the Georgia Cotton Conferences and Cotton Production Workshop. Tifton, GA, January 25, 2023.
- Attended the Beltwide Cotton Conferences. New Orleans, LA. January 2023.
- Attended the ASA, CSSA, and SSSA annual meeting. Baltimore, MD, 2022.
- 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/EPSCO 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.

3) SCHOLARLY ACTIVITIES

Publications:

Publication Type	Career Total
Books	1
Book Chapters	14
Refereed Journal Articles	113
Non-Refereed Abstracts and Technical Reports	257
Newsletter Articles	17
Blog Posts	1
Popular Press	3

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.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).
- Cohen, Y., G. Vellidis, C. Campillo, V. Liakos, N. Graff, Y. Saranga, **J.L. Snider**, J. Casadesus, S. Millan, M.H. Prieto. 2021. Precision irrigation. In: R. Kerry and E. Alexandre (eds), Applications of Sensing to Precision Irrigation. Springer Nature, Switzerland. pp. 301-332.
- **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). pp. 14-51.
- **Snider, J.L.**, M.P. Bange, and J.J. Heitholt. 2021. Cotton. In: V. Sadras and D. Calderini (eds), Crop Physiology: Case histories for major crops. Academic Press, Elsevier, Cambridge, MA. pp. 715-746.
- **Snider, J.L.**, C. Pilon, and G. Virk. 2020. Seed characteristics and seedling vigor. In: D.R. Chastain, G. Kaur, K.R. Reddy, and D.M. Oosterhuis (eds) Cotton Seed and Seedlings. The Cotton Foundation, Cordova, TN. pp 9-22.
- Singh, B., D.R. Chastain, G. Kaur, **J.L. Snider**, and K.R. Reddy. 2020. Low temperature and moisture stress effects on cotton seed germination. In: D.R. Chastain, G. Kaur, K.R. Reddy, and D.M. Oosterhuis (eds) Cotton Seed and Seedlings. The Cotton Foundation, Cordova, TN. pp 53-66.
- Singh, B., D.R. Chastain, G. Kaur, **J.L. Snider**, and K.R. Reddy. 2020. Cotton seedling growth and development responses to temperature and drought stress. In: D.R. Chastain, G. Kaur, K.R. Reddy, and D.M. Oosterhuis (eds) Seed and Seedlings. The Cotton Foundation, Cordova, TN. 101-116.
- Raper, T.B., C. Pilon, V. Singh, **J. Snider**, S. Stewart, and S. Byrd. 2020. Cotton production in the United States of America: an overview. In: K. Jabran and B.S. Chauhan (eds.), Cotton Production. John Wiley and Sons, Hoboken, NJ. pp 217-248.
- **Snider, J.L.** and D.R. Chastain. Plant-Based Irrigation Scheduling. 2016. In: J.L. Snider and D.M. Oosterhuis (eds) Linking Physiology to Management. The Cotton Foundation, Cordova, TN, pp 97-116.
- Ritchie, G.L., D.L. Rowland, and **J.L. Snider**. Irrigation timing and application methods for improving water use efficiency. 2016. In: J.L. Snider and D.M. Oosterhuis (eds) Linking Physiology to Management. The Cotton Foundation, Cordova, TN, pp. 85-96.
- **Snider, J.L.** and D.M. Oosterhuis. 2015. Physiology. In: D. Fang and R. Percy (eds) Agronomy Monograph 57, Cotton 2nd Edition. ASA-CSSA-SSSA, Madison, WI, pp 339-400.
- **Snider, J.L.** and D.M. Oosterhuis. 2012. Pollen-pistil interactions under high temperature. In: Oosterhuis, D.M. (ed) Cotton Flowering and Fruiting. The Cotton Foundation, Cordova, TN, pp 59-78.
- Oosterhuis, D.M. and **J.L. Snider**. 2011. High temperature stress on floral development and yield of cotton. In: Oosterhuis, D.M. (ed) Stress Physiology in Cotton. The Cotton Foundation, Cordova, TN, pp 1-24.

- **Snider, J.L.**, P.K. Das, and R.L. Raper. 2011. A roadmap for sustainable advanced biofuel feedstock production in the mid-south. In: Braun, R., D.L. Karlen, and D. Johnson (eds) Sustainable Alternative Fuel Feedstock Opportunities, Challenges and Roadmaps for Six U.S. Regions. Proceedings of the Sustainable Feedstocks for Advanced Biofuel Workshop. Soil and Water Conservation Society, Ankeny, IA, pp 504-517.

Refereed Journal Articles: [113 published or in press]

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2023 (19)

- Raper, T., R. Ward, C. Rushing, S. Brown, T. Sandlin, R. Norton, R. Hutmacher, **J. Snider**, D. Fromme, D. Dodds, M. Jones, K. Edmisten, G. Collins, S. Byrd, J. Griffin, M. Maeda, W. Frame, B. Pieralisi, J. Whitaker, C. Meeks, R. Nichols, and G. Morgan. 2023. Re-evaluation of the degree day base 60 °F concept in U.S. cotton (*Gossypium hirsutum* L.) production. *Agronomy Journal* (in press).
- *Virk, G., **J.L. Snider**, P. Chee, S. Virk, V. Parkash, N. Kaur, and D. Jones. 2023. Physiological contributors to yield in advanced cotton breeding lines. *Crop Science* (in press).
- Lawton, C., A. Pokhrel, J. Lee, D. Chalise, G. Virk, **J. Snider**, P. Roberts, P. Chee, and L. Hand. Evaluating the impacts of wide row upland cotton production in Georgia. *Agronomy Journal* (in press).
- *Lawson, B, **J.L. Snider**, L.C. Hand, W. Porter, G. Vellidis, J.M. Lee, D.P. Chalise, V. Parkash, A. Pokhrel, and N. Kaur. 2023. Effect of irrigation termination times on cotton cultivars with contrasting maturities. *Agronomy Journal* (in press).
- *Parkash, V., **J.L. Snider**, C. Pilon, S. Bag, D. Jespersen, G. Virk, and K.K. Dhillon. 2023. Differential sensitivities of photosynthetic component processes govern oxidative stress levels and net assimilation rates in virus-infected cotton. *Photosynthesis Research* (in press).
- *Kaur, N., **J.L. Snider**, V. Parkash, A.H. Paterson, T.L. Grey, and V. Tishchenko. 2023. Genotypic variation in growth, single leaf physiology, and acclimation potential of thylakoid processes in cotton exposed to high temperature extremes. *Environmental and Experimental Botany* 215:105512.
- *Pokhrel, A., S. Virk, **J.L. Snider**, G. Vellidis, L.C. Hand, H.Y. Sintim, V. Parkash, D.P. Chalise, J.M. Lee, and C. Byers. 2023. Estimating yield-contributing physiological parameters of cotton using UAV-based imagery. *Frontiers in Plant Science* 14: 1248152.
- Singh, B., D. Chastain, G. Kaur, **J. Snider**, S. Stetina, S. Bazzar. 2023. Reniform nematode impact on cotton growth and management strategies: a review. *Agronomy Journal* 115:2140-2158.
- *Kaur, N., **J.L. Snider**, A.H. Paterson, T.L. Grey, G. Virk, and V. Parkash. 2023. Variation in thermotolerance of photosystem II energy trapping, intersystem electron transport, and photosystem I electron acceptor reduction for diverse cotton genotypes. *Plant Physiology and Biochemistry* 201:107868.

- *Pokhrel, A., **J.L. Snider**, S. Virk, H.Y. Sintim, L.C. Hand, G. Vellidis, V. Parkash, D.P. Chalise, and J. Lee. 2023. Quantifying physiological contributions to nitrogen-induced yield variation in field-grown cotton. *Field Crops Research* 299:108976.
- Saeed, F., S. Sun, **J. Snider**, T. Liu, C. Li. 2023. 3D Annotation and deep learning for cotton plant part segmentation and architectural trait extraction. *Plant Methods* 19:33.
- Edula, SR, H Milner, M Kumar, ND Suassuna, PW Chee, RC Kemerait, LC Hand, JL Snider, R Srinivasan, PM Roberts, S Bag. 2023. Cotton leafroll dwarf virus: an enigmatic virus disease on cotton. *Molecular Plant Pathology* 24:513-526.
- *Virk, G. **J.L. Snider**, and F. Bourland. 2023. Genotypic and environmental contributions to lint yield, yield components, and fiber quality in upland cotton from Arkansas variety trials over a 19-year period. *Crop Science* 63:1284-1299.
- *Parkash, V., **J.L. Snider**, N. Kaur, and G. Virk. 2023. Effects of cultivar and nitrogen application rate on lint, seed, oil, and protein yields in field-grown cotton. *Crop Science* 63:1541-1554.
- *Lee, J.M., **J.L. Snider**, P. Roberts, L.C. Hand, A.S. Culpepper, A. Pokhrel, and D.P. Chalise. 2023. The effect of plant growth management on cotton susceptibility to drought during the flowering and boll filling stages. *Field Crops Research* 298:108969.
- *Parkash, V., **J.L. Snider**, H.Y. Sintim, L.C. Hand, G. Virk, A. Pokhrel. 2023. Differential sensitivities of photosynthetic processes and carbon loss mechanisms govern N-induced variation in net assimilation rate for field grown cotton (*Gossypium hirsutum* L.). *Journal of Experimental Botany* 74:2638-2652.
- Hand, L.C., **J.L. Snider**, and P.M. Roberts. 2023. Investigating the rain free period of mepiquat chloride as impacted by adjuvant, rate, and interval between application and simulated rainfall. *Crop, Forage, and Turfgrass Management* 9:e20214.
- *Chalise, D.P., **J.L. Snider**, and G. Virk. 2023. Assessing the effects of cultivar and nitrogen application rate on seedling vigor and early season canopy growth in cotton. *Agronomy Journal* 115: 713-725.
- 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. 2023. 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* 209: 94-115.

2022 (10)

- Lacerda, L.N., **J. Snider**, Y. Cohen, V. Liakos, M.R. Levi, and G. Vellidis. 2022. Correlation of UAV and satellite-derived vegetation indices with cotton physiological parameters and their use as a tool for scheduling variable rate irrigation in cotton. *Precision Agriculture* 23:2089-2114.
- Singh, B., D.R. Chastain, S.R. Stetina, E. Gardiner, and **J.L. Snider**. 2022. Early-season growth responses of resistant and susceptible cotton genotypes to reniform nematode and soil potassium application. *Agronomy* 12:2895.

- Zou, J., W. Hu, D. Loka, **J. Snider**, H. Zhu, Y. Li, Y. Wang, Z. Zhou. 2022. Carbon assimilation and distribution in cotton photosynthetic organs is a limiting factor affecting boll weight formation under drought. *Frontiers in Plant Science* 13:1001940.
- 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* 26:14-22.
- *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 mepiquat chloride strategy: effects on cotton growth, maturity, yield, and fiber quality. *Field Crops Research* 286:108633.
- **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* 272:107825.
- 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 (10)

- 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 μ 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. Safikhan, **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 (9)

- 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 (9)

- *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 (10)

- 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 (7)

- 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 (10)

- 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 (4)

- **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 (4)

- *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 (6)

- **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 (4)

- **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 (4)

- **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 (4)

- 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 (2)

- **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.

Nonrefereed Abstracts and Technical Reports [257 Total]

- Porter, W.M., C.D. Perry, **J.L. Snider**. 2023. Cotton irrigation scheduling: which method is a best fit? Year 3 of a continued study. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Pokhrel, A., S. Virk, **J. Snider**, G. Vellidis, V. Parkash. 2023. Using UAS multispectral imagery to estimate yield-determining physiological parameters of cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Kaur, N., **J.L. Snider**, A.H. Paterson, G. Virk, V. Parkash. 2023. Photosynthetic thermotolerance in diverse cotton genotypes. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Lee, J., **J.L. Snider**, L.C. Hand, P. Roberts, A.S. Culpepper, D.P. Chalise, A. Pokhrel, N. Kaur, V. Parkash, G. Virk, R.B. Lawson. 2023. The effect of plant growth management on cotton susceptibility to drought during the flowering and boll filling stages. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Hall, J., C. Lawton, **J. Snider**, P. Roberts, and L.C. Hand. 2023. Evaluating the impacts of row arrangement and variety on yield, yield components, and fiber quality in Georgia cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Virk, G., **J.L. Snider**, F. Bourland. 2023. Genotypic and environmental contributions to lint yield, yield components, and fiber quality in upland cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Parkash, V., **J. Snider**, H. Sintim, L. Hand, G. Virk, A Pokhrel. 2023. Determining the mechanistic basis for N deficiency-induced photosynthetic inhibition in field-grown cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- **Snider, J.L.**, D.S. Carlson, G. Virk, V. Parkash, N. Kaur, D. Chalise, A. Sehgal, G Kaur, G Singh, E Amiri, D. Chastain, H Laza, W Guo, G Collins. 2023. Multi-environment assessment of cultivar variation in extrafloral nectar production in cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Lawton, C., **J.L. Snider**, P. Roberts, Y. Liu, P Chee, L.C. Hand. 2023. Evaluating wide row production systems in Georgia. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Ankomah, G., S Amissah, M Habteselassie, D. Franklin, **J. Snider**, R. Kemerait, and H. Sintim. 2023. Integration of cover crops and organic amendments under different tillage systems: impacts on cotton productivity and soil health. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Kaur, N., **J.L. Snider**, A.H. Paterson, G. Virk, V. Parkash. 2023. Assessing physiological contributors to productivity of diverse cotton genotypes. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Lee, J., **J.L. Snider**, L.C. Hand, P. Roberts, A.S. Culpepper, D.P. Chalise, A. Pokhrel, N Kaur, V. Parkash, G. Virk, R.B. Lawson. 2023. The effect of plant growth management and drought stress on yield components and fiber quality of field grown cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Pokhrel, A., **J. Snider**, S. Virk, H. Sintim, L.C. Hand, G. Vellidis, V. Parkash, D.P. Chalise, J.M. Lee. 2023. Estimating physiological contributors to yield loss under nitrogen stress in cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.

- Parkash, V., **J.L. Snider**, G. Virk, J. Lee. 2023. Interactive effects of drought stress and nitrogen deficiency on the mechanistic drivers of net photosynthesis in field-grown cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- **Snider, J.L.**, V. Parkash, JM Lee, LC Hand, A Pokhrel, RB Lawson. 2023. Effects of irrigation, nitrogen application rate, and plant growth regulation on biomass, nutrient uptake, and lint yield. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Lawson, B., **J.L. Snider**, G. Vellidis, L.C. Hand, W.M. Porter, D.P. Chalise, J.M. Lee, A. Pokhrel, and N. Kaur. 2023. Response of cotton cultivars with differing maturities to end-of-season irrigation termination times. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Lawton, C., **J.L. Snider**, P. Roberts, P. Chee, C. Hand. 2023. Impacts of wide row spacings on yield components of cotton. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Virk, G., **J.L. Snider**, P. Chee, V. Parkash, N. Kaur. 2023. Assessing the physiological basis of genetic yield improvement and seedling vigor in advanced cotton breeding lines. Abstract. Proceedings of the 2023 Beltwide Cotton Conferences, New Orleans, LA.
- Awori, K, C Pilon, J Snider, S Leal-Bertioli, D Bertioli, and V Tishchenko. 2022. The potential of improving photosynthetic heat tolerance in peanut using wild species. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Lee, J, J Snider, C Hand, P Roberts, S Culpepper, D Chalise, A Pokhrel, N Kaur, V Parkash, and G Virk. 2022. The effect of plant growth management on cotton susceptibility to drought during the flowering and boll filling stages. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Pokhrel, A., J Snider, S Virk, H Sintim, C Hand, G Vellidis, V Parkash, D Chalise, J Lee. 2022. Quantifying yield loss contributions of physiological parameters under nitrogen stress in cotton. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Virk, G, J Snider, P Chee, S Virk, V Parkash, and N Kaur. 2022. Physiological and within-boll yield component contributors to yield and fiber quality in advanced cotton breeding lines. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Parkash, V, J Snider, and G Virk. 2022. Interactive effects of water stress and nitrogen deficiency on the underlying processes driving net assimilation in field grown cotton. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Kaur, N, J Snider, A Paterson, G Virk, and V Parkash. 2022. Impact of physiological factors on productivity in diverse cotton genotypes. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Sehgal, A, G Kaur, D Chastain, J Snider, H Laza, W Guo, and G Singh. 2022. Genotype x Environment interaction effects on cotton nectar production, physiology, yield, and fiber properties. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Lawson, R, J Snider, D Chalise, J Lee, A Pokhrel. 2022. Effect of irrigation termination times on cotton cultivars with contrasting maturities. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Ankomah, G, S Amissah, S Sintim, M Habteselassie, D Franklin, J Snider, R Kemerait. 2022. Mitigating adverse impacts of tillage in crop production. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.

- Maeda, M, S Brown, S Byrd, J Snider, G Collins, K Edmisten, L Snyder, W Frame, M Jones, B McKnight, G Morgan, R Norton, B Peralisi, T Raper, B Robertson, T Sandlin, and D Wright. 2022. A beltwide seed quality survey: A cotton extension specialists project. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Pokhrel, A, S Virk, J Snider, G Vellidis, V Parkash. 2022. Predicting yield-driving physiological parameters of cotton from UAS multispectral imagery. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Farmaha, BS, S Dubey, G Morgan, A Franzluebbers, D Arnall, K Balkcom, D Diaz, W Frame, J Howe, B McKnight, K Lewis, M Maeda, B Peralisi, T Raper, T Roberts, H Sintim, J Snider, B Wilson. 2022. Evaluation of cotton yield response to nitrogen fertilizer application across the US cotton belt. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Parkash, V, J Snider, H Sintim, C Hand, G Virk, and A Pokhrel. 2022. Differential sensitivities of photosynthetic processes and carbon loss mechanisms govern N-induced variation in net assimilation rate for field-grown cotton. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Virk, G, J Snider, and F Bourland. 2022. Genotypic and Environmental Contributions to lint yield, yield components, and fiber quality in upland cotton from Arkansas variety trials over a period of 18 years. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- Kaur, N, J Snider, A Paterson, G Virk, and V Parkash. 2022. Effect of high temperature on photosynthetic processes and their thermotolerance in diverse cotton genotypes. Abstract. ASA, CSSA, and SSSA International Annual Meeting. Baltimore, MD.
- G. Virk, JL Snider, P Chee, N Kaur, A Ermanis. 2022. Impact of Extreme Temperatures on Growth and Photosynthetic Performance of Advanced Cotton Genotypes. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Kaur, N, J Snider, A Paterson, G Virk, and V Parkash. 2022. Physiological Factors Affecting Productivity in Diverse Cotton Genotypes. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Hand, LC, AS Culpepper, JL Snider. 2022. Effects of low dose defoliant rates on late planted cotton in Georgia. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Lee, JM, J Snider, L Hand, P Roberts, AS Culpepper, D Chalise, A Pokhrel, N Kaur, V Parkash, G Virk. 2022. The Effect of Plant Growth Management on Cotton Susceptibility to Drought during the Flowering and Boll Filling Stages. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Pokhrel, A, J Snider, S Virk, HY Sintim, L Hand, G Vellidis, V Parkash, D Chalise, J Lee. 2022. Physiological Contributors to Cotton Yield Loss Under Nitrogen Stress. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Lawton, C, J Snider, P Roberts, Y Liu, P Chee, L Hand. 2022. Evaluating wide row cotton production systems in Georgia. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Lawton, C, J Snider, P Roberts, P Chee, L Hand. 2022. Impacts of wide row spacings on yield components of cotton. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Kaur, N, J Snider, A Paterson, G Virk. 2022. Genotypic Variation in Thermotolerance of Photosynthetic Processes for Diverse Cotton Genotypes. Abstract. Beltwide Cotton Conferences, San Antonio, TX.

- Chalise, D, J Snider, L Hand, G. Vellidis, A Ermanis, G Collins, A Pokhrel, J Lee, L Lacerda, Y Cohen. 2022. Cultivar, Irrigation Management, and PGR Strategy: Effects on Cotton Growth, Yield and Maturity. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Parkash, V., D. Sharma, J Snider, S Bag, P Roberts, A Tabassum, D West, S. Khanal, N. Suassuna, P Chee. 2022. Determination of Cotton Leafroll Dwarf Virus Induced Limitations to Photosynthesis and Yield of Cotton. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Virk, G., JL Snider, P. Chee, S. Virk, N. Kaur, V. Parkash. 2022. Influence of Various within Boll Yield Components on Lint Yield and Fiber Quality in Advanced Cotton Breeding Lines. Abstract. Beltwide Cotton Conferences, San Antonio, TX.
- Virk, G., J. Snider, P. Chee, N. Kaur, A. Ermanis. 2021. Impact of Temperature Extremes on Growth and Photosynthetic Performance of Advanced Cotton Genotypes. Abstract. Crop Science Society of America International Annual Meeting, Salt Lake City, UT.
- Fuhrer, L., W. Porter, G. Rains, J. Snider, S. Virk, E. Barnes. 2021. Utilization of John Deere's Cotton HID System to Aid Production Decisions. Abstract. Crop Science Society of America International Annual Meeting, Salt Lake City, UT.
- Kaur, N., J. Snider, A. Paterson, and G. Virk. 2021. Genotypic Variation in Thermotolerance of Thylakoid Component Processes for Diverse Cotton Genotypes. Abstract. Crop Science Society of America International Annual Meeting, Salt Lake City, UT.
- Parkash, V., J. Snider, D.B. Sharma, S. Bag, P. Roberts, A. Tabassum, D. West, S. Khanal, N.D. Saussuna, and P. Chee. 2021. Impact of Cotton Leafroll Dwarf Virus on Physiology and Yield Components of Individual Cotton Plants. Abstract. Crop Science Society of America International Annual Meeting, Salt Lake City, UT.
- Virk, G., J. Snider, P. Chee, S. Virk, N. Kaur, V. Parkash. 2021. Impact of Physiological Processes and Individual Yield Components on Lint Yield and Fiber Quality in Advanced Cotton Breeding Lines. Abstract. Crop Science Society of America International Annual Meeting, Salt Lake City, UT.
- Virk, G., J. Snider, P. Chee, N. Kaur, A. Ermanis. 2021. Growth and photosynthetic performance of advanced cotton genotypes as affected by temperature extremes. 2021 Meeting of the American Society for Plant Biology. Virtual.
- Kaur, N., J. Snider, A. Paterson, G. Virk. 2021. Physiological Contributors to Productivity of Diverse Cotton Genotypes. Abstract. Crop Science Society of America International Annual Meeting, Salt Lake City, UT.
- Snider, JL, C. Pilon, H. Wang, V. Tishchenko, W. Hu, W. Slaton, D. Chastain. 2021. Photosynthetic cold acclimation in cotton seedlings. Abstract. 2021 Beltwide Cotton Conferences, Virtual.
- Virk, G., J.L. Snider, P. Chee, N. Kaur, A. Ermanis. 2021. Effect of temperature extremes on seedling growth and photosynthetic performance of different cotton genotypes. Abstract. 2021 Beltwide Cotton Conferences, Virtual.
- Porter, W.M., C. Perry, J.L. Snider. 2021. Cotton irrigation scheduling: which method is a best fit? Abstract. 2021 Beltwide Cotton Conferences, Virtual.
- Barnes, E.M., G. Morgan, K. Hake, J. Devine, R.W. Kurtz, T.W. Griffin, G. Ibendahl, A. Sharda, G.C. Rains, J.L. Snider, B.G. Ayre, J. Maja, A. Thomasson, Y. Lu, H. Gharakhani, J.A. Griffin, R.G. Hardin, E. Kimura, T.B. Raper, S. Young, K.G. Fue, M.G. Pelletier, J.D.

- Wanjura, G.A. Holt. 2021. Opportunities for robotic systems and automation in cotton production. Technical Report. 2021 Beltwide Cotton Conferences, Virtual.
- Fuhrer, L.M., W.M. Porter, G.C. Rains, J.L. Snider, S. Virk, A. Smith, Y. Liu, E.M. Barnes, C. Holt. 2021. Using information from the John Deere cotton HID system to aid in making production decisions. Technical report. 2021 Beltwide Cotton Conferences, Virtual.
 - Snider, J.L. 2021. Physiological aspects of cotton fruit shed. Abstract. 2021 Beltwide Cotton Conferences, Virtual.
 - Snider, J.L., G. Vellidis, L.N. Lacerda, A. Ermanis, Y. Cohen, and G.D. Collins. 2021. Effects of cultivar, irrigation management, and PGR strategy on cotton yield and maturity. Abstract. 2021 Beltwide Cotton Conferences, Virtual.
 - Snyder, L.U., G.D. Collins, K. Edmisten, S.M. Brown, S.A. Byrd, K.D. Chapman, M.K. Dowd, H. Frame, M.A. Jones, M. Maeda, B. McKnight, C.D. Meeks, G. Morgan, R. Norton, B.K. Peralisi, T.B. Raper, B. Robertson, T. Sandlin, J.L. Snider, D.L. Wright. 2021. A beltwide evaluation of cotton seed quality parameters. Abstract. 2021 Beltwide Cotton Conferences, Virtual.
 - Maeda, M., S.M. Brown, S.A. Byrd, D.S. Carlson, P. Edwards, G. Hancock, J.M. Kichler, T. Price, J.L. Snider, G.D. Collins, K. Edmisten, L.U. Snyder. H. Frame, M.A. Jones, B.M. McKnight, C.D. Meeks, G. Morgan, R. Norton, B.K. Peralisi, T.B. Raper, B. Robertson, T. Sandlin, and D.L. Wright. 2021. A beltwide seed quality survey; an extension cotton specialists project. Abstract. Beltwide Cotton Conferences, Virtual.
 - Barnes, E.M., G. Morgan, K. Hake, J. Devine, R.W. Kurtz, T.W. Griffin, G. Ibendahl, A. Shardaz, G.C. Rains, K.G. Fue, J.L. Snider, M.A. Bruce, A. Ermanis, J. Maja, D. Daly, C. Chiu, M. Cutulles, M. Burce, J. Griffin, J. Thomasson, H. Gharakhani, E. Kimura, B. Ayre, T.B. Raper, S. Young, M. Pelletier, J. Wanjura, G. Holt. 2020. Current and potential robotic applications to improve cotton Production. Full Paper. 2020 Beltwide Cotton Conferences, Austin, TX.
 - Virk, S.S., W.M. Porter, J.L. Snider, J.R. Whitaker, C. Li. 2020. Evaluation of seeding depth and planter downforce for planting cotton in diverse field conditions. Full Paper. 2020 Beltwide Cotton Conferences, Austin, TX.
 - Fuhrer, L., W.M. Porter, G. Rains, J.L. Snider, E. Barnes. 2020. Mapping of in-field fiber quality utilizing John Deere harvest identification system. Full Paper. 2020 Beltwide Cotton Conferences, Austin, TX.
 - Lacerda, L., Y. Cohen, J. Snider, V. Liakos, and G. Vellidis. 2020. Evaluating Tsharp for thermal sharpening of MODIS satellite images using venus visual imagery at field scale. Abstract. 2020 Crop Science Society of America International Annual Meeting. Virtual.
 - Pilon, C., J. Snider, L.A. Moreno, C. Kvien, P. Ozias-Akins, and C. Holbrook. 2020. Photosynthetic limitations to carbon assimilation in peanut under drought at the onset of flowering. Abstract. 2020 Crop Science Society of America International Annual Meeting. Virtual.
 - Virk, G.K., J. Snider, N. Kaur, A. Ermanis. 2020. Genotypic variation in growth and photosynthetic performance of cotton seedlings in response to temperature extremes. Abstract. 2020 Crop Science Society of America International Annual Meeting. Virtual.
 - Raper, T.B., G.D. Morgan, C. Meeks, W. H. Frame, R. Hutmacher, M.A. Jones, M.M. Maeda, J. Snider, R.L. Nichols, S. Brown, D. Dodds, S. Byrd, R. Norton, D.D. Fromme, J. Griffin, K. Edmisten. 2020. Cotton phenology: reevaluating growing degree days in three

cultivars of differing maturity. Abstract. 2020 Crop Science Society of America International Annual Meeting. Virtual.

- Bruce, M.A., J. Snider, A. Ermanis, J. Whitaker, G.D. Collins. 2020. Impact of cultivar variation in cotton seed characteristics and nitrogen application rate on yield component responses. Abstract. 2020 Crop Science Society of America International Annual Meeting. Virtual.
- Tubbs, R.S., M.D. Toews, G. Harris, A.R. Smith, J. Snider, and R.L. Nichols. 2020. Is sidedress N-application rate influenced by preceding cover crop species for strip-till cotton? Abstract. 2020 Crop Science Society of America International Annual Meeting. Virtual.
- Snider, J.L., C. Pilon, W. Hu, H. Wang, V. Tishchenko, W. Slaton, and D. Chastain. 2020. Photosynthetic components differ in cold tolerance, but respiration primarily governs acclimation of net photosynthesis in cotton seedlings. Abstract. 2020 Crop Science Society of America International Annual Meeting. Virtual.
- Ermanis, A., J.L. Snider, G. Vellidis, S. Gobbo, L. Lacerda, M.A. Bruce, V. Liakos, L. Galdi, C. Perry, B.J. Washington, A.L. Brown, and Y. Cohen. 2020. Assessing the physiological basis of yield response to irrigation in cotton cultivars with expected differences in crop water use efficiency. 2020 Beltwide Cotton Conferences, Austin, TX.
- Singh, B., D. Chastain, K.R. Reddy, J. Krutz, J.L. Snider, and S. Stetina. 2020. Early-season morphological and physiological responses of cotton genotypes to reniform nematode and soil nitrogen. 2020 Beltwide Cotton Conferences, Austin, TX.
- Virk, G., J. Snider, and C. Pilon. 2020. Cotton seedling vigor as affected by first true leaf physiology under different field conditions. Abstract. 2020 Beltwide Cotton Conferences, Austin, TX.
- Virk, G., J. Snider, and C. Pilon. 2020. Contributions of various physiological parameters to early season whole crop vigor in cotton. Abstract. 2020 Beltwide Cotton Conferences, Austin, TX.
- Bruce, M.A., J.L. Snider, A. Ermanis, J. Whitaker, L. Galdi, and G. Collins. 2020. Impact of cultivar variation in cotton seed characteristics and nitrogen application rate on crop development and yield component responses. Abstract. 2020 Beltwide Cotton Conferences, Austin, TX.
- Davis, R.F., J.L. Snider, H.J. Earl, P. Timper. 2019. Effect of simultaneous water deficit stress and *Meloidogyne incognita* infection on cotton fruit distribution patterns. Abstract. Society of Nematologists Annual Meeting. Raleigh, NC.
- Moreno, L., C. Pilon, C. Holbrook, A.C. Lara-Fiozeze, B. Fabreti, and J. Snider. 2019. Drought-related traits and genotypic diversity in peanuts. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Lacerda, L., J. Snider, Y. Cohen, V. Liakos, and G. Vellidis. 2019. The use of multispectral imagery for variable rate irrigation in cotton. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Vellidis, G., V. Alchanati, Y. Cohen, S. Gobbo, L. Lacerda, V. Liakos, F. Morari, S. Lo Presti, A. Harb Rabia, A. Dos Santos, R. da Silva, and J. Snider. 2019. How the promise of remote sensing is finally making an impact in agriculture: case studies from around the world. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Shekoofa, A., S. Safikhani, J. Snider, T. B. Raper, and F. Bourland. 2019. Variation among cotton genotypes in stomatal conductance responses to high vapor pressure deficit under

rainfed conditions. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.

- Virk, G., J. Snider, and C. Pilon. 2019. Effect of various physiological processes on early season crop vigor in cotton. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Ermanis, A., and J. Snider. 2019. Assessing the Physiological Basis of Yield Response to Irrigation in Cotton. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Davis, S., R. Tubbs, J. Snider, and R. Kemerait. 2019. Assessment of uniform vs non-uniform plant stands of varying plant populations for non-irrigated cotton. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Chastain, D., B. Singh, and J. Snider. 2019. Drought Response Modeling of Leaf Photosynthetic Parameters in Two *Gossypium* Species. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Virk, G., J. Snider, and C. Pilon. 2019. Impact of First True Leaf Physiology on Cotton Seedling Vigor under Different Field Conditions. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Virk, G., J. Snider, and C. Pilon. 2019. Contributions of the first true leaf to seedling vigor under different field conditions. Abstract. ASA Southern Regional Branch Annual Meeting. Birmingham, AL.
- B. Singh, D. Chastain, J. Snider, K.R. Reddy, L.J. Krutz, and S. Stetina. 2019. Influence of nitrogen on reproduction and pathogenicity of *Rotylenchulus reniformis* in cotton. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Moreno, L., C. Pilon, C. Holbrook, A.C. Lara-Fioreze, B. Fabreti, and J. Snider. 2019. Physiological traits as components of genotypic variability of peanuts under drought conditions. Abstract. ASA Southern Regional Branch Annual Meeting. Birmingham, AL.
- Virk, G., C. Pilon, and J. Snider. 2019. Planting conditions influence early season vigor of peanut cultivars. Abstract. American Peanut Research and Education Society Proceedings. Auburn, AL.
- S.B. Davis, R.S. Tubbs, C. Pilon, J. Snider, and R. Kemerait. 2019. Supplemental Replanting of Gaps in Plant Stand Affects Peanut Production and Incidence of Tomato Spotted Wilt Virus. Abstract. American Peanut Research and Education Society Proceedings. Auburn, AL.
- Liu, Y., S. Virk, W. Porter, J. Whitaker, and J. Snider. 2019. Economic analysis of seeding rate and planter downforce in singulated and hill- drop planted cotton. Abstract. 2019 Beltwide Cotton Conferences, New Orleans, LA.
- Liu, Y., A. Bhattarai, J. Snider, and G. Collins. 2019. Economic analysis of irrigation scheduling method on cotton production in Georgia and North Carolina. Abstract. 2019 Beltwide Cotton Conferences, New Orleans, LA.
- Virk, S., W. Porter, J. Snider, and J. Whitaker. 2019. Considerations for planter downforce and seeding rate to maximize emergence and yield in singulated versus hill-drop planted cotton. Abstract. 2019 ASA/CSSA International Annual Meeting. San Antonio, TX.
- Virk, S., W. Porter, J. Snider, and J. Whitaker. 2019. Considerations for planter downforce and seeding rate to maximize emergence and yield in singulated versus hill-drop planted cotton. Full Paper. 2019 Beltwide Cotton Conferences, New Orleans, LA.

- Daughtry, D.W., W.M. Porter, G. Harris, J.L. Snider, R.L. Noland. 2019. Using an unmanned aerial system to collect mid-season multispectral data for estimation of plant nitrogen status in cotton. Full Paper. 2019 Beltwide Cotton Conferences, New Orleans, LA.
- Snider, J., W. Hu, H. Wang, J. Whitaker, C.D. Perry, Z. Zhou, D. Chastain, F. Bourland. 2019. Yield Component Contributions to Yield Loss and Fiber Quality Deterioration Under Drought Stress in Field-Grown Cotton. Abstract. 2019 Beltwide Cotton Conferences, New Orleans, LA.
- Snider, J., W. Hu, D. Chastain, V. Tishchenko, and W. Slaton. 2019. Sub-Optimal Growth Temperature Alters Thermotolerance of Thylakoid Component Processes in Cotton Seedlings. Abstract. 2019 Beltwide Cotton Conferences, New Orleans, LA.
- Snider, J., N. Thangthong, C. Pilon, G. Virk, and V. Tishchenko. 2019. Chlorophyll Fluorescence Parameters as Rapid Indicators of Cotton Seedling Vigor under Contrasting Growth Temperature Regimes. Abstract. 2019 Beltwide Cotton Conferences, New Orleans, LA.
- Raper, T.B., J. Snider, D.M. Dodds, A. Jones, B. Robertson, D. Fromme, T. Sandlin, T. Cutts, and R. Blair. 2018. Genetic and environmental contributions to cotton yield and fiber quality in the Midsouth. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Snider, J., W. Hu, H. Wang, M. Scolari, V. Tishchenko, D. Chastain, and W. Slaton. 2018. Processes contributing to photosynthetic cold acclimation in cotton seedlings. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Chastain, D., J. Snider, and B. Singh. 2018. The use of the rapid A-Ci response and OJIP protocols to differentiate between contrasting metabolic drought-response strategies in two cotton species. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Virk, G., J. Snider, and C. Pilon. 2018. Effect of the first true leaf of cotton cultivars on seedling vigor under field conditions. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Snider, J., W. Hu, D.R. Chastain, and V. Tishchenko. 2018. Assessing heat tolerance acclimation of photosynthetic component processes in cotton seedlings under contrasting growth temperatures using OJIP fluorescence. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Virk., G., C. Pilon, J. Snider. 2018. Effect of planting conditions on early season crop growth of peanut cultivars. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Lacerda, L., G. Vellidis, J. Snider, Y. Cohen, V. Liakos, and S. Gobbo. 2018. Assessing the use of UAV-based multispectral and thermal imaging in detecting crop water status variability in cotton. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Singh, B., D. Chastain, J. Snider, K.R. Reddy, L.J. Krutz, and S. Stetina. 2018. Reniform nematode pathogenicity on commercial cultivars and novel resistance lines of cotton based on growth, development, and yield traits. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Gobbo, S., J. Snider, G. Vellidis, Y. Cohen, V. Liakos, L. Lacerda. 2018. Evaluation of a novel thermal imaging system for the detection of crop water status in a range of modern

cotton cultivars in the southeastern US. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.

- Daughtry, D., S. Virk, G. Harris, J. Snider, R. Noland, W. Porter. 2018. Collection, processing, and analysis of in-season cotton multispectral and fertility data utilizing unmanned aerial systems. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Porter, W., S. Virk, J. Snider, J. Whitaker, and W.S. Monfort. 2018. The importance of planter depth, downforce, and seedling vigor on crop emergence and yield. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Snider, J., W. Hu, H. Wang, Z. Zhou, D.R. Chastain, J. Whitaker, F. Bourland, and C. Perry. 2018. Yield component contributions to yield loss and fiber quality deterioration under drought stress in field-grown cotton. Abstract. 2018 ASA & CSSA International Annual Meeting, Baltimore, MD, November 4-7.
- Singh, B., D.R. Chastain, J.L. Snider, K.R. Reddy, J.J. Krutz, S.R. Stetina. 2018. *Rotylenchulus reniformis* resistant cotton lines exhibit higher early season vigor and fiber yield, when compared to susceptible cultivars. Abstract. 2018 Beltwide Cotton Conferences, San Antonio, TX, January 3-5.
- Chastain, D.R., B. Singh, J. Snider. Rapid A-Ci response (RACiR) as a method to detect drought effects in two *Gossypium* species with contrasting metabolic stress-response strategies. Abstract. 2018 Beltwide Cotton Conferences, San Antonio, TX, January 3-5.
- Virk, G., J. Snider, C. Pilon, M.A. Scolari. 2018. Planting seed mass influences early season crop growth characteristics. Abstract. 2018 Beltwide Cotton Conferences, San Antonio, TX, January 3-5.
- Virk, G., J. Snider, C. Pilon, M.A., Scolari. 2018. Contributions of the first true leaf to seedling vigor under field conditions. Abstract. 2018 Beltwide Cotton Conferences, San Antonio, TX, January 3-5.
- Virk, S., W. Porter, K. Fue, J. Snider, J. Whitaker. 2018. Evaluating the effect of planter downforce and seed vigor on crop emergence and yield in hill-drop vs singulated cotton. Technical Report. 2018 Beltwide Cotton Conferences, San Antonio, TX, January 3-5.
- Snider, J.L., W. Hu, H. Wang, M. Solari, V. Tishchenko, D. Chastain, W. Slaton. 2018. Processes contributing to photosynthetic cold acclimation in cotton seedlings. Abstract. 2018 Beltwide Cotton Conferences, San Antonio, TX, January 3-5.
- Porter, W., S. Virk, J. Snider, J. Whitaker. 2018. The effects of planter parameters on cotton emergence, growth, and yield: year 2. Technical Report. 2018 Beltwide Cotton Conferences, San Antonio, TX, January 3-5.
- Snider, J.L., J. Gassett, D. Dunn, W.M. Porter, D. Chastain, D.M. Dodds, B.G. Golden, and W. Slaton. 2017. Multi-Location Assessment of Heat Tolerance in Six Commercially-Available Cotton Cultivars. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Snider, J.L. and Y. Chen. 2017. Seedling Vigor and Carbon Dynamics of the First True Leaf Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Meeks, C., J.L. Snider, T.L. Barnes, and M.E. Babb-Hartman. 2017. Seedling Vigor Assessment of Commercially-Available Cotton Cultivars in Response to Planting Depth. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.

- Snider, J.L., G. Harris, P.M. Roberts, and C. Meeks. 2017. Physiological and Agronomic Response to N Fertility in Southern Georgia in a Long-Term Conservation Tillage System. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Meeks, C., J.L. Snider, W.M. Porter, T. Griffin, and T.L. Barnes. 2017. Evaluating daily yield losses due to delayed harvest after defoliation. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Meeks, C., J. Snider, T.L. Barnes, and M.E. Babb-Hartman. 2017. Quantifying cotton cultivar response to early season water deficit. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Meeks, C., J.L. Snider, W.M. Porter, G.Vellidis, G. Hawkins, and D. Rowland. 2017. Primed acclimation: assessing a sensor-based irrigation scheduling system with limited early season irrigation. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Meeks, C., J.L. Snider, W.M. Porter, G. Ritchie, G. Rains, and G. Hawkins. 2017. Aerial evaluation of software-based image conversion for low cost plant health monitoring. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Porter, W.M. and J.L. Snider. 2017. The effect of planter parameters on cotton emergence, growth, and yield. Abstract. 2017 Beltwide Cotton Conferences, Dallas, TX, January 4-6.
- Snider, J., G. Virk, C. Pilon, and M.A. Scolari. Assessing physiological contributions of the first true leaf to seedling vigor for cotton under field conditions. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Pilon, C., G. Virk, J. Snider, R.S. Tubbs, and M. Scolari. 2017. Effect of planting date on seedling vigor of peanut cultivars. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Fox, J., B. Schwartz, J. Snider, D. Jespersen. Shade tolerance in warm season turfgrass. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Byrd, S., R. Wright, A. Bumguardner, and J. Snider. 2017. Vigor components of cotton. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Snider, J., Y. Chen, and H. Wang. 2017. Seedling vigor and carbon dynamics of the first true leaf. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Singh, B., D. Chastain, J. Snider, K.R. Reddy, S. Stetina, L.J. Krutz. 2017. An evaluation of *Rotylenchulus reniformis* resistant lines in the nematode-infested fields using classical growth analysis. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Chastain, D., J. Snider, and B. Singh. 2017. An evaluation of the rapid A-Ci response method to elucidate drought effects in field-grown Pima and Upland cotton under contrasting irrigation regimes. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.
- Vellidis, G., J. Snider, V. Liakos, W. Porter, C. Perry. 2017. Dynamic variable rate irrigation management using soil moisture and canopy temperature sensors in the southeastern USA. Abstract. Crop Science Society of America International Annual Meeting in Tampa, FL. October 22-25, 2017.

- Meeks, C., J. Snider, T. Barnes, and M. Babb-Hartman. 2017. Quantifying impacts of early season water deficit on multiple cotton cultivars. Abstract. 2017 Annual Meeting of the Southern Branch of the American Society of Agronomy, Mobile, AL, February 5-7.
- Monfort, W.S., W. Porter, J. Snider, C. Perry, G. Vellidis. 2017. Evaluation of new irrigation scheduling methods for peanut. Abstract. 2017 Annual Meeting of the Southern Branch of the American Society of Agronomy, Mobile, AL, February 5-7.
- Snider, J. L., G. Harris, P.M. Roberts, and C.D. Meeks. 2016. Assessing Physiological and Agronomic Responses to Nitrogen Fertility for Cotton Grown under long-term Conservation Tillage in Georgia. Abstract. Crop Science Society of America International Annual Meeting in Phoenix, AZ. November 6-9, 2016.
- Christ, E., P. Webster, J.L. Snider, V. Toma, D.M. Oosterhuis, and D.R. Chastain. 2016. Predicting Heat Stress in Cotton Using Probabilistic Canopy Temperature Forecasts. Abstract. Crop Science Society of America International Annual Meeting in Phoenix, AZ. November 6-9, 2016.
- Snider, J. L., J. Gassett., D.R. Chastain, D.M. Dodds, W.M. Porter, R. Golden., D. Dunn, and W. Slaton. 2016. Assessment of PSII Heat Tolerance for Six Commercially-Available Cotton Cultivars across a Range of Production Environments. Abstract. Crop Science Society of America International Annual Meeting in Phoenix, AZ. November 6-9, 2016.
- Chastain, D. R., J.L. Snider, G.D. Collins, C.D. Perry, J.R. Whitaker, S.A. Byrd, and B. Singh. 2016. The Use of Plant Water Status As an Irrigation Scheduling Method. Abstract. Crop Science Society of America International Annual Meeting in Phoenix, AZ. November 6-9, 2016.
- Snider, J.L., G. Harris, P. Roberts, and C.D. Meeks. 2016. Physiological and agronomic responses of cotton to nitrogen fertility in southern Georgia. In: J. Snider, W. Porter, and J. Schmidt (eds) 2015 Georgia Cotton Research and Extension Report. Annual Publication 108-4. p. 55-64.
- Barwick, S., W. Porter, S. Byrd, J. Snider, J. Whitaker, G. Collins, A. Shirley, B. Griffin, B. Allen, B. Cresswell, B. Hayes, C. Earls, C. Tyson, J. Miller, J. Lanier, P. Sapp, P. Sapp, R. Hicks, R. Churchwell, S. Curry. 2016. The effects of soil moisture on cotton growth and yield: a multi-varietal investigation. In: J. Snider, W. Porter, and J. Schmidt (eds) 2015 Georgia Cotton Research and Extension Report. Annual Publication 108-4. p. 44-54.
- Snider, J.L. and C.D. Meeks. 2016. Assessing the utility of physiological methods to identify drought sensitivity in commercial cotton cultivars. In: J. Snider, W. Porter, and J. Schmidt (eds) 2015 Georgia Cotton Research and Extension Report. Annual Publication 108-4. p. 39-43.
- Snider, J.L., C.D. Meeks, A.S. Culpepper, and G.L. Hawkins. 2016. Using plant-based irrigation triggers to quantify water savings with a rye cover crop. In: J. Snider, W. Porter, and J. Schmidt (eds) 2015 Georgia Cotton Research and Extension Report. Annual Publication 108-4. p. 30-38.
- Meeks, C.D., J.L. Snider, M.E. Babb-Hartman, and T. Barnes. 2016. Assessing seedling vigor to quantify cotton cultivar responses to early season water deficit. In: J. Snider, W. Porter, and J. Schmidt (eds) 2015 Georgia Cotton Research and Extension Report. Annual Publication 108-4. p. 24-29.
- Chastain, D., J. Snider, G.D. Collins, J. Whitaker, C. Perry, and SA Byrd. 2016. Improving water productivity using plant-based irrigation scheduling in cotton. Abstract. 2016 Annual

Meeting of the Southern Branch of the American Society of Agronomy, San Antonio, TX, February 7-9.

- Meeks, C., J. Snider, M. Babb-Hartman, T. Barnes. 2016. Assessing Seedling Vigor to Quantify Cotton Cultivar Response to Early Season Water Deficit. Abstract. 2016 Annual Meeting of the Southern Branch of the American Society of Agronomy, San Antonio, TX, February 7-9.
- Meeks, C., J. Snider, S. Culpepper, G. Hawkins. 2016. Cotton Engaged in High-Biomass Rye Cover Cropping Systems: Assessing Water Use Efficiency with Plant-Based Irrigation Scheduling. Abstract. 2016 Annual Meeting of the Southern Branch of the American Society of Agronomy, San Antonio, TX, February 7-9.
- Snider, J.L., J. Gasset, D. Dunn, W. Porter, D. Chastain, W. Slaton. 2016. Multi-location assessment of heat tolerance in six commercially-available cotton cultivars. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Snider, J.L., G.D. Collins, J.R. Whitaker, K. Chapman, P. Horn. 2016. The impact of seed characteristics on seedling vigor and lint yield across five yield environments in southern Georgia. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Snider, J.L., K. Chapman, V. Tishchenko, S. Salimath. 2016. Transgenic cotton lines over-expressing delta-12 fatty acid desaturase (fad2-4) exhibit improved seedling vigor under cool temperatures. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Snider, J.L., D.R. Chastain, C. Meeks, G.D. Collins, R. Sorensen, and C.D. Perry. 2016. Predawn respiration predicts lint yield in cotton when yield variability is water-induced. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Snider, J.L., G. Harris, P. Roberts, C. Meeks. 2016. Assessing the physiological and agronomic responses of cotton to nitrogen fertility in southern Georgia. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Chastain, D.R., J.L. Snider, G.D. Collins, J. Whitaker, C.D. Perry, S.A. Byrd. 2016. Irrigation scheduling using predawn leaf water potential improves water productivity in drip irrigated cotton. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Chastain, D.R., J.L. Snider, G.D. Collins, T. Grey, J. Whitaker, J.S. Choinski Jr., C.D. Perry, S.A. Byrd, R.B. Sorensen. Leaf ontogeny strongly influences photosynthetic tolerance to drought and high temperature in *Gossypium hirsutum*. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Byrd, S.A., G. D. Collins, R. Barentine, J.R. Whitaker, P.M. Roberts, A.S. Culpepper, J.L. Snider, W.M. Porter, C.D. Perry, B.J. Washington, G.L. Hawkins, D.R. Chastain. Agronomic performance of cotton grown under high biomass rye cover crop. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Barnes, T., C. Meeks, J.L. Snider, M.E. Babb-Hartman. 2016. Assessing seedling vigor in commercially-available cotton cultivars in response to planting depth. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Meeks, C., J.L. Snider, W.M. Porter, A.S. Culpepper, G. Ritchie, G.D. Collins, G. Rains, G. L. Hawkins. 2016. Assessing an unmanned aerial system equipped for aerial RGB photography collection and chlorophyll a fluorescence for detecting water-induced differences in canopy development and yield in cotton. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.

- Meeks, C., J.L. Snider, W.M. Porter, G. Vellidis, G.L. Hawkins, D. Rowland. 2016. Primed acclimation: an assessment to improve water use efficiency in a sensor-based irrigation scheduling system. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Meeks, C., J.L. Snider, A.S. Culpepper, G.L. Hawkins. 2016. Cotton partnered with high-biomass rye cover crops: assessing water use efficiency with plant-based irrigation scheduling. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Barwick, S., W. Porter, S. Byrd, J. Snider, J. Whitaker, G. Collins, A. Shirley, B. Griffin, B. Allen, B. Cresswell, B. Hayes, C. Earls, C. Tyson, J. Miller, J. Lanier, P. Sapp, P. Sapp, R. Hicks, R. Churchwell, S. Curry. The effects of soil moisture on cotton growth and yield: a multi-varietal investigation. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Byrd, S.A., G.D. Collins, A.S. Culpepper, K.L. Edmisten, D.M. Dodds, D.L. Wright, G.D. Morgan, P.A. Baumann, P.A. Dotray, A.S. Jones, M.R. Manuchehri, T.L. Grey, T.M. Webster, J.W. Davis, J.R. Whitaker, J.L. Snider, P.M. Roberts, and W.M. Porter. Beltwide evaluation of the effect of 2,4-d drift on cotton. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Whitaker, J.R., J.L. Snider, G.D. Collins, S.A. Byrd. 2016. Seeding rates and plant population effect on cotton production in Georgia. Abstract. 2016 Beltwide Cotton Conferences, New Orleans, LA, January 5-7.
- Snider, J.L., K.D. Chapman, S. Salimath, and V. Tishchenko. 2015. The effect of delta-12 fatty acid desaturase (FAD) gene expression on seedling vigor under cool temperatures. In: D. Shurley, J. Snider, W. Porter (eds) 2014 Georgia Cotton Research and Extension Report. Annual Publication 108-3. p. 26-30.
- Snider, J.L., D.R. Chastain, C.D. Meeks, S. Byrd, C. Perry. 2015. The effect of irrigation delivery method on lint yield in two years with contrasting water availability. In: D. Shurley, J. Snider, W. Porter (eds) 2014 Georgia Cotton Research and Extension Report. Annual Publication 108-3. p. 31-34.
- Chastain, D.R., J.L. Snider, S.A. Byrd, G.D. Collins, C.D. Perry, and R.B. Sorensen. 2015. Photosynthetic response of two commercial cotton cultivars to imposed drought using predawn leaf water potential as an irrigation trigger. In: D. Shurley, J. Snider, W. Porter (eds) 2014 Georgia Cotton Research and Extension Report. Annual Publication 108-3. p. 35-37.
- Meeks, C.D., J. Snider, W.M. Porter, and G. Vellidis. 2015. The effect of primed acclimation irrigation strategies on cotton water use efficiencies. In: D. Shurley, J. Snider, W. Porter (eds) 2014 Georgia Cotton Research and Extension Report. Annual Publication 108-3. p. 38-42.
- Porter, W.M., C.D. Meeks, D. Rowland, and J.L. Snider. 2015. Physiological responses to primed acclimation irrigation treatments: an initial study. In: D. Shurley, J. Snider, W. Porter (eds) 2014 Georgia Cotton Research and Extension Report. Annual Publication 108-3. p. 43-52.
- Porter, W.M., G.D. Collins, S.A. Byrd, and J.L. Snider. 2015. Irrigation termination and fiber quality: subsurface drip irrigation versus overhead. In: D. Shurley, J. Snider, W. Porter (eds) 2014 Georgia Cotton Research and Extension Report. Annual Publication 108-3. p. 53-62.
- Shurley, W.D., J.L. Snider, and D.R. Chastain. 2015. Yield, fiber quality, and economic net return comparing traditional vs. plant-based irrigation triggers. In: D. Shurley, J. Snider, W. Porter (eds) 2014 Georgia Cotton Research and Extension Report. Annual Publication 108-3. p. 3-11.

- Snider, J., K. Chapman, and S. Salimath. 2015. The effect of delta-12 fatty acid desaturase (FAD) gene expression on seedling vigor under cool temperatures. Abstract. Crop Science Society of America Annual Meeting in Minneapolis, MN, November 15-18.
- Snider, J.L., D. Chastain, C. Meeks, G. Collins, R. Sorensen, and C. Perry. 2015. Predawn respiration rates during flowering are highly predictive of yield response in *Gossypium hirsutum* when yield variability is water-induced. Abstract. Crop Science Society of America Annual Meeting in Minneapolis, MN, November 15-18.
- Chastain, D., J.L. Snider, G.D. Collins, C. Perry, J. Whitaker, S.A. Byrd, T.L. Grey, R. Sorensen, and J. Choinski Jr. 2015. Photosystem II in young cotton leaves is resilient to heat stress. Does this phenomenon result in enhanced drought tolerance? Abstract. Crop Science Society of America Annual Meeting in Minneapolis, MN, November 15-18.
- Meeks, C., J.L. Snider, W.M. Porter, G. Vellidis, S. Culpepper, G.L. Ritchie, G.D. Collins, G. Rains, and G. Hawkins. 2015. Assessing the utility of RGB photography from an unmanned aerial vehicle and chlorophyll a fluorescence for detecting water-induced differences in canopy development and yield in cotton. Abstract. Crop Science Society of America Annual Meeting in Minneapolis, MN, November 15-18.
- Chastain, D.R., J.L. Snider, G.D. Collins, J. Whitaker, C. Perry, S.A. Byrd. 2015. Improving cotton water use efficiency using plant-based irrigation scheduling. Abstract. Crop Science Society of America Annual Meeting in Minneapolis, MN, November 15-18.
- Meeks, C., J. Snider, W.M. Porter, G. Vellidis, and G. Hawkins. 2015. Assessing the utility of primed acclimation for improving water use efficiency in a sensor-based irrigation scheduling system. Abstract. Crop Science Society of America Annual Meeting in Minneapolis, MN, November 15-18.
- Byrd, S.A., A.S. Culpepper, D.M. Dodds, A. Jones, K.L. Edmisten, D.L. Wright, G.D. Morgan, P.A. Baumann, P.A. Dotray, M.R. Manuchehri, J.L. Snider, J.R. Whitaker, D.R. Chastain, and G.D. Collins. 2015. Influence of simulated 2,4-D drift on the reproductive development and maturity of cotton. Abstract. 68th Annual Meeting of the Southern Weed Science Society in Savannah, GA, January 26-28.
- Snider, J.L., C.D. Meeks, D.R. Chastain, G.D. Collins, J.R. Whitaker. 2015. Characterizing physiological responses to plant water status during progressive drought as a means to identify drought tolerance in commercially-available cotton cultivars. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Snider, J.L., D.R. Chastain, G.D. Collins. 2015. Field-grown cotton exhibits seasonal variation in photosynthetic heat tolerance without exposure to heat stress or water deficit conditions. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Snider, J.L., D.R. Chastain, G.D. Collins, S.A. Byrd, T. Grey, J.R. Whitaker. 2015. Does thermotolerance plasticity influence yield stability? Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Byrd, S.A., 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, J.L. Snider, J.R. Whitaker, D.R. Chastain, G.D. Collins. 2015. The effect of 2,4-D at various growth stages on plant height and yield of cotton. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Byrd, S.A., J.L. Snider, J.R. Whitaker, W.M. Porter, C.D. Perry, B.J. Washington, R.B. Sorensen, D.R. Chastain, and G.D. Collins. 2015. The effect of irrigation during cotton squaring on lint yield and plant growth characteristics. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.

- Collins, G.D., R. Boman, D. Dodds, S. Duncan, K. Edmisten, H. Frame, D. Fromme, A. Jones, M. Jones, M. Kelley, K. Keys, D. Logan, G. Morgan, R. Nichols, R. Norton, S. Osborne, B. Robertson, J. Snider, J. Whitaker, D. Wright. 2015. 2014 on-farm evaluation of cotton variety performance. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Owiti, H., D. Chastain, J. Snider, P. Chee, E. Lubbers, A. Mukherjee, J. Choinski Jr. 2015. Comparative study of fatty acid desaturase (FAD) gene expression during upland and pima cotton leaf expansion. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Meeks, C., J. Snider, W.M. Porter, G. Vellidis, G.D. Collins, A.S. Culpepper, G.L. Ritchie. 2015. Assessing the utility of RGB photography from an unmanned aerial vehicle and chlorophyll a fluorescence for detecting water-induced differences in canopy development and yield in cotton. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Meeks, C., J. Snider, W.M. Porter, G. Vellidis. 2015. Assessing the utility of primed acclimation for improving water use efficiency in a sensor-based irrigation scheduling system. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Meeks, C., J. Snider, G.D. Collins, A.S. Culpepper. 2015. High biomass rye cover crops: assessing water use efficiency with plant-based irrigation scheduling. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Chastain, D.R., J.L. Snider, G.D. Collins, J. Whitaker, C.D. Perry, S.A. Byrd. 2015. Scheduling irrigation using predawn leaf water potential increases water use efficiency in cotton. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Chastain, D.R., J.L. Snider, G.D. Collins, C.D. Perry, J. Whitaker, S.A. Byrd, T. Grey, R.B. Sorensen, J.S. Choinski Jr. 2015. Young cotton leaves are more heat tolerant than mature leaves. Does this improve photosynthetic drought tolerance? Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Porter, W.M., G.D. Collins, S.A. Byrd, J.L. Snider. 2015. Irrigation termination and fiber quality, subsurface drip irrigation versus overhead. Technical Paper. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Porter, W.M., C.D. Meeks, D. Rowland, J.L. Snider. 2015. Physiological responses to primed acclimation irrigation treatments: an initial study. Technical Paper. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Christ, E., P. Webster, J. Snider, D. Oosterhuis, D. Chastain. 2015. Modeling heat stress for cotton in the humid southeast using air temperature and relative humidity. Abstract. Beltwide Cotton Conferences in San Antonio, TX, January 5-7.
- Raper, T.B., D.M. Oosterhuis, E.M. Barnes, P.J. Bauer, J.L. Snider, D.M. Dodds, G. Collins, J. Whitaker, C.D. Monks, and M.A. Jones. 2014. Development and testing of an available soil moisture index to characterize drought stress. pp. 47-53. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2013. Arkansas Agricultural Experiment Station.
- Snider J.L., G.D. Collins, C.D. Perry, D.R. Chastain, S.A. Byrd. 2014. The utility of plant water status measurements as a means to improve water use efficiency in Georgia cotton production. In: D. Shurley, J. Snider, W. Porter (eds) 2013 Georgia Cotton Research and Extension Report. Annual Publication 108-2. p. 37-42.
- Collins, G.D., J. Whitaker, S.A. Byrd, J.L. Snider, D.R. Chastain, A. Knowlton. 2014. Evaluation of performance, growth, and fruiting characteristics of new cotton varieties and quantifying potential production risks of up-and-coming technologies. In: D. Shurley, J.

Snider, W. Porter (eds), 2013 Georgia Cotton Research and Extension Report. Annual Publication 108-2. p. 30-36

- Chastain, D.R., J.L. Snider, G.D. Collins, C.D. Perry. 2014. Using predawn water potential for irrigation scheduling to reevaluate the crop water stress index for cotton grown in humid regions. Abstract. Agronomy Society of America Poster Symposium, Athens Georgia, April 11.
- Vellidis, G., V. Liakos, C. Perry, M.A. Tucker, G.D. Collins, J. Snider, J.H. Andreis, K. Migliaccio, C.W. Fraisse, K. Morgan, and E. Barnes. 2014. Etc-based smartphone apps for scheduling irrigation. Abstract. Crop Science Society of America Annual Meeting in Long Beach, CA, November 2-5.
- Snider, J., D. Chastain, and G. Collins. 2014. Characterizing thermotolerance plasticity and yield stability for field grown cotton cultivars. Abstract. Crop Science Society of America Annual Meeting in Long Beach, CA, November 2-5.
- Chastain, D.R., J.L. Snider, G.D. Collins, J. Whitaker, and C.D. Perry. 2014. Improving water use efficiency for cotton grown in the humid southeast using predawn leaf water potential as an irrigation trigger. Abstract. Crop Science Society of America Annual Meeting in Long Beach, CA, November 2-5.
- Chastain, D.R., J.L. Snider, G.D. Collins, J.R. Whitaker, S.A. Byrd, C.D. Perry. 2014. Drought stress in field-grown *Gossypium hirsutum* limits net photosynthesis by decreasing stomatal conductance, increasing photorespiration, and increasing the proportion of gross photosynthesis lost to dark respiration. Abstract. Crop Science Society of America Annual Meeting in Long Beach, CA, November 2-5.
- Snider, J., D. Chastain, and G. Collins. 2014. Field-Grown *Gossypium hirsutum* Plants exhibit seasonal variation in heat tolerance without exposure to heat stress or water deficit conditions. Abstract. Plant Biology Europe FESPB/EPSO 2014 Congress in Dublin, Ireland, June 22-26.
- Chastain, D., J. Snider, G. Collins, C. Perry, and S. Byrd. 2014. Defining Physiological Thresholds under Water Deficit for Improved Plant-Based Irrigation Scheduling in Cotton. Abstract. Plant Biology Europe FESPB/EPSO 2014 Congress in Dublin, Ireland, June 22-26.
- Rowe, C.P., A.S. Culpepper, S.A. Byrd, J.L. Snider, J.R. Whitaker, D.R. Chastain, G.D. Collins. 2014. The effect of simulated 2,4-D drift on cotton growth, development, and yield. Abstract. Beltwide Cotton Conferences in New Orleans, LA, January 6-8.
- Raper, T.B., D.M. Oosterhuis, E. Barnes, P.J. Bauer, G.D. Collins, D.M. Dodds, M.A. Jones, D. Monks, J.L. Snider, P. Andrade-Sanchez, J.R. Whitaker. 2014. Development of an available soil water index to characterize site water-deficit stress experienced in cotton variety trials. Abstract. Beltwide Cotton Conferences in New Orleans, LA, January 6-8.
- Chastain, D.R., J.L. Snider, G.D. Collins, J.R. Whitaker, S.A. Byrd, C.D. Perry. 2014. Physiological responses of *Gossypium hirsutum* to contrasting irrigation regimes. Abstract. Beltwide Cotton Conferences in New Orleans, LA, January 6-8.
- Chastain, D.R., J.L. Snider, G.D. Collins, and C.D. Perry. 2014. Using predawn water potential as a means of scheduling irrigation for drip irrigated cotton. Abstract. Beltwide Cotton Conferences in New Orleans, LA, January 6-8.
- Whitaker, J., G.D. Collins, S. Byrd, J.L. Snider, J.M. Kichler, C. Tyson, W.G. Tyson, J.L. Jacobs, M.A. Frye, D.S. Price, M.A. Dollar. 2014. Determining the last effective bloom date utilizing heat unit accumulation in Georgia. Abstract. Beltwide Cotton Conferences in New Orleans, LA, January 6-8.

- Snider, J.L. and D.R. Chastain. 2014. Plant-based irrigation scheduling. Abstract. Beltwide Cotton Conferences in New Orleans, LA, January 6-8.
- Raper, T.B., D.M. Oosterhuis, E.M. Barnes, P. Andrade-Sanchez, P.J. Bauer, G.L. Ritchie, D.L. Rowland, and J.L. Snider. 2013. Development of an available soil moisture index to characterize drought stress experienced in cotton variety trials. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2012. Arkansas Agricultural Experiment Station.
- Chastain, D.R., J.L. Snider, G.D. Collins, J. Whitaker, and C.D. Perry. 2013. Plant water status and leaf temperature as indicators of water deficit stress in cotton. 2012 Georgia Cotton Research-Extension Report.
- Snider, J.L., G.D. Collins, J. Whitaker, C.D. Perry, D.R. Chastain. 2013. The effect of water deficit on photosynthetic electron transport and net CO₂ assimilation rates in field-grown cotton. 2012 Georgia Cotton Research-Extension Report.
- Snider, J.L., D.R. Chastain, G.D. Collins, C.D. Perry, J.R. Whitaker. 2013. Physiological responses of three cotton genotypes to irrigation treatment and seasonal variation in the water status of the soil-plant-atmosphere continuum. Proceedings of the Beltwide Cotton Conferences in San Antonio, TX, January 7-10.
- Meeks, C., J.R. Whitaker, J.L. Snider, G. Ritchie, C.D. Perry, G.D. Collins. 2013. Optimizing irrigation practices for cotton using sub-surface drip and overhead irrigation systems in Georgia. Proceedings of the Beltwide Cotton Conferences in San Antonio, TX, January 7-10.
- Snider, J. L., D.M. Oosterhuis, G.D. Collins, C. Pilon, T.R. FitzSimons. 2013. Field-grown cotton cultivars exhibit genotypic and seasonal differences in photosystem II heat tolerance. Proceedings of the Beltwide Cotton Conferences in San Antonio, TX, January 7-10.
- Sapp, P., J.R. Whitaker, G.D. Collins, and J.L. Snider. 2013. Effect of plant growth regulators on lint yield, fiber quality, and boll distribution of cotton varieties in Georgia. Proceedings of the Beltwide Cotton Conferences in San Antonio, TX, January 7-10.
- Vellidis, G., C.D. Perry, M. Weiss, E. Barnes, G.D. Collins, J.L. Snider. 2013. A cotton crop coefficient-based model for scheduling irrigation in Georgia. Proceedings of the Beltwide Cotton Conferences in San Antonio, TX, January 7-10.
- Snider, J.L., D.M. Oosterhuis, and E.M. Kawakami. 2011. Genotypic thermotolerance is associated with elevated pre-stress antioxidant enzyme activity in cotton leaves and pistils. Abstract. Proceedings of the Beltwide Cotton Conferences in Atlanta, GA, January 4-7.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2011. Physiology and yield responses of cotton to foliar urea with NBPT. Abstract. Proceedings of the Beltwide Cotton Conferences in Atlanta, GA, January 4-7.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2011. Salinity effects on cotton N uptake and assimilation of urea applied with NBPT and DCD. Abstract. Proceedings of the Beltwide Cotton Conferences in Atlanta, GA, January 4-7.
- Oosterhuis, D.M., E.M. Kawakami, J.L. Snider, T.R. FitzSimons. 2011. 1-MCP effects on antioxidant activity and gene expression of ACC-synthase and ACC-oxidase in cotton flowers. Abstract. Proceedings of the Beltwide Cotton Conferences in Atlanta, GA, January 4-7.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2011. The effects of urea application with NBPT and DCD on the growth and yield of cotton. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2010. Arkansas Agricultural Experiment Station.

- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2011. Effect of salinity on cotton N uptake and assimilation of urea applied with NBPT and DCD. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2010. Arkansas Agricultural Experiment Station.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2011. Effect of foliar application of urea with NBPT on the physiology and yield of cotton. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2010. Arkansas Agricultural Experiment Station.
- Raper, R.L., J.L. Snider, T.G. Teague, and S.S. Kulkarni. 2011. Effects of eastern Arkansas production systems on soil strength and electrical conductivity. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2010. Arkansas Agricultural Experiment Station.
- Snider, J.L., D.M. Oosterhuis, and E.M. Kawakami. 2011. Effects of moderately high temperature on diurnal pollen tube growth and fertilization in field-grown cotton. In D. M. Oosterhuis (ed.) Summaries of Arkansas Cotton Research 2010. Arkansas Agricultural Experiment Station.
- Snider, J.L., D.M. Oosterhuis, E.M. Kawakami. 2010. Genotypic differences in thermotolerance are dependent upon pre-stress capacity for antioxidant protection of the photosynthetic apparatus in cotton. Abstract. Proceedings of the Beltwide Cotton Conferences in New Orleans, LA, January 4-7.
- Oosterhuis, D.M. and J.L. Snider. 2010. The effect of high temperature on floral development and yield of cotton. Abstract. Proceedings of the Beltwide Cotton Conferences in New Orleans, LA, January 4-7.
- Oosterhuis, D.M., E.M. Kawakami, and J.L. Snider. 2010. The effects of 1-methylcyclopropene on the physiology and yield of cotton. Abstract. Proceedings of the Beltwide Cotton Conferences in New Orleans, LA, January 4-7.
- Kawakami, E.M., D.M. Oosterhuis, and J.L. Snider. 2010. Cotton physiological responses to application of urea with NBPT and DCD under normal and high temperature conditions. Abstract. Proceedings of the Beltwide Cotton Conferences in New Orleans, LA, January 4-7.
- Snider, J.L., D.M. Oosterhuis, and E.M. Kawakami. 2010. Genotypic differences in thermotolerance depend on pre-stress capacity for antioxidant protection of the photosynthetic apparatus in cotton. Abstract. Proceedings of the American Society of Agronomy annual meeting in Long Beach, CA, October 31-November 4.
- Kawakami, E.M., D.M. Oosterhuis, J.L. Snider. 2010. Cotton yield improvements with addition of the urease inhibitor NBPT to foliar applied urea. Abstract. Proceedings of the American Society of Agronomy annual meeting in Long Beach, CA, October 31-November 4.
- 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 [17]

- Snider, J.L., J.M. Lee, and C. Hand. 2023. The flowering phase of crop development. July 2023 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L., J.M. Lee, and C. Hand. 2023. Staging of the cotton crop (continued). June 2023 Cotton Team Newsletter. University of Georgia Extension.

- Snider, J.L., J.M. Lee, and C. Hand. 2023. Early season staging of the cotton crop. May 2023 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J.L., J.M. Lee, and C. Hand. 2023. Keeping early season planting considerations simple. April 2023 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J, G. Virk, V. Parkash, and J. Lee. 2022. Factors responsible for boll retention/shed in cotton. August 2022 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J, V. Parkash, G. Virk, and C. Hand. 2022. Abiotic stress in cotton. July 2022 Cotton Team Newsletter. University of Georgia Extension.
- Snider, J, V. Parkash, G Virk, and C Hand. 2022. Crop monitoring and management. June 2022 Cotton Team Newsletter. University of Georgia Extension.
- 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 [3]

- Snider, J.L. 2017. Bloom Period Considerations-Specialists Speaking: Georgia. Cotton Farming, August, 2017. One Grower Publishing, LLC.
- Snider, JL, S Virk, LC 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.
- Lee, J., J.L. Snider, V. Parkash, G. Virk, and L.C. Hand. 2023. Regulating plant growth in cotton. Crops and Soils Magazine, July, 2023. American Society of Agronomy.

Creative Contributions other than Publications: [16]

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.

International Involvement

- **Invited Instructor:** Sustainable Agriculture: Perspectives from Abroad, University of Padova, Italy, Fall 2021 (Also noted in Teaching section above).
- **Conference:** Plant Biology Europe FESPB/EPSO 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. (Also noted in Teaching section above)
- **Visiting Scholar Hosted:** Min Gao, Nanjing Agricultural University. Visiting Graduate Student Researcher, November 2018-November 2019. (Also noted in Teaching section above)
- **Visiting Scholar Hosted:** Sheng Fang, Nanjing Agricultural University. Visiting Graduate Student Researcher, November 2017-November 2018. (Also noted in Teaching section above)
- **Visiting Scholar Hosted:** Haimiao Wang, Nanjing Agricultural University. Visiting Graduate Student Researcher, October 2016-November 2017. (Also noted in Teaching section above)
- **Visiting Scholar Hosted:** Yinglong Chen, Nanjing Agricultural University. Visiting Graduate Student Researcher, January 2016-January 2017. (Also noted in Teaching section above)
- **Visiting Undergraduate Intern:** Ingrid Almeida, Sao Paulo State University, Brazil. July 2023-April 2024. (Also noted in Teaching section above)
- **Visiting Undergraduate Intern:** Leonardo Galdi, Universidade do Oeste Paulista, Brazil. June 2019-December 2019. (Also noted in Teaching section above)
- **Visiting Undergraduate Intern:** Mario A. Scolari, College of Agriculture, University of São Paulo, São Paulo, Brazil, May 2017-December 2017. (Also noted in Teaching section above)

Presentations:

Invited Presentations [63]

- Cotton Physiology. Agronomic Crops Agent Training Field Day. University of Georgia, Tifton, GA, June 8, 2023.
- Growth, yield and resource capture in cotton. 2023 Southwest Cotton Physiology Meeting. College Station, TX, February, 2023.
- Cotton Physiology. Georgia Cotton Commission Annual Meeting and Cotton Production Workshop. Tifton, GA, January 25, 2023.
- Cotton Physiology. Southeast District Agent Training-Cotton Production Update. University of Georgia, Reidsville, GA, January 18, 2023.
- Cotton Physiology. Southwest District Agent Training-Cotton Production Update. University of Georgia, Tifton, GA, January 19, 2023.
- 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 [48]

- Multi-Environment Assessment of Cultivar Variation in Extrafloral Nectar Production in Cotton. Beltwide Cotton Conferences. New Orleans, LA. January, 2023.
- Effects of irrigation, nitrogen application rate, and plant growth regulation on biomass, nutrient uptake, and lint yield. Beltwide Cotton Conferences. New Orleans, LA. January, 2023.
- 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.

Extramural Support: [Grants, Gifts, and Contracts]

Funded Grants →[\$5,510,553 Total]

- **PI** → Defining the contributions of production environment and variety to fiber yield, seed component yields, and crop performance in subsequent growing seasons. USDA-AFRI, 2023-2025: **\$300,000**.
- **PI** → Cottonseed analysis and service. Cotton Incorporated, CY 2023: **\$92,000**.
- **PI** → Acclimation of photosynthetic components as a predictor of early plant growth response to temperature extremes in cotton. Cotton Incorporated, CY 2023: **\$25,000**.
- **PI** → Physiological research to improve yield and production efficiency in Georgia cotton. Georgia Cotton Commission, CY 2023: **\$82,765**.
- **PI** → Multi-environment quantification of extra-floral nectar production in modern and obsolete cotton cultivars. USDA-ARS, Non-Assistance Cooperative Agreement. May 1, 2023 to April 30, 2025: **\$100,000**.
- **PI** → Plant-based precision irrigation management for improved system-level sustainability. FFAR: Seeding Solutions, 2023-2027: **\$753,856**.
- **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** → Advancing methods for accelerated heat tolerance selection in peanut. Foundation for Food and Agricultural Research, 2021-2025: **\$549,505**.
- **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 [\$447,416]

- 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**
- Deere & Company, Inc., 2022: **\$22,032**
- Evonik, 2023: **\$24,480**

Gifts [\$376,700]

- 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.**
- Valent, 2022: **\$24,000**
- Stoller, 2022: **\$5,500**
- Stoller, 2022: **\$4,500**
- Fine Americas, 2022: **\$5,000**
- Valent, 2023: **\$40,000**
- Land O Lakes, 2023: **20,000**
- Sanovita, 2023: **\$10,000**

4) **PUBLIC AND PROFESSIONAL SERVICE**

Professional Society Leadership [6 total]

- **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.

Editorships [8 total]

- **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*)

Symposia Coordinated [3]

- **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.

Sessions Moderated [5]

- **Regular Session**, Agronomy and Physiology Conference, 2023 Beltwide Cotton Conferences. January 11, 2023.
- **General Session**, C02, Crop Physiology and Metabolism. CSSA International Annual Meeting in Baltimore, MD, November, 2022.
- **Regular Session**, Agronomy and Physiology Conference, 2022 Beltwide Cotton Conferences.
- **General Session**. C02, Crop Physiology and Metabolism. CSSA International Annual Meeting in Tampa, FL, October 22-25, 2017.
- **General Session**. Agronomy and Physiology Conference, 2013 Beltwide Cotton Conferences. January 10, 2013.

Student Competitions Judged [10]

- **Crop Ecology, Management and Quality**. Graduate Student Poster Competition. CSSA International Annual Meeting in Baltimore, MD, November, 2022.
- **Agronomy and Physiology Conference**. MS Graduate Student Oral Competition. 202 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 20 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; Journal of Experimental Botany; 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 (Currently)
- **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:

- Crop Science Society of America (12 years)
- Agronomy Society of America (7 years)
- Botanical Society of America
- Soil and Water Conservation Society