National Cotton Council OF AMERICA

# Beltwide Cotton Conferences

The Cotton Foundation

# 2019 Beltwide Student Award Winners

## Cotton Engineering-Systems Conference



1. Simerjeet S. Virk, Considerations for Planter Downforce and Seeding Rate for Maximizing Emergence in Singulated Versus Hill-Drop Planted Cotton, University of Georgia



2. David W Daughtry, Using an Unmanned Aerial System to Collect Mid-Season Multispectral Data for Estimation of Plant Nitrogen Status in Cotton, University of Georgia

3. Akash Ashapure, A Comparative Study of RGB and Multi-spectral Sensor Based Cotton Canopy Cover Modelling Using Multi-Temporal UAS Data, Texas A&M University

## Cotton Agronomy, Physiology, and Soil Conference

### Posters

#### Undergrad

1. Ciera Ware, Comparison of Soil and Foliar Applied Potassium Fertilizer in Cotton, Texas Tech University

2. Robert Wright, Impact of Variety Selection and PGR Strategy on Cotton Performance in the Texas High Plains, Texas Tech University

3. Kirby Luth, Cotton and Sorghum Intercropping, Texas Tech University

#### MS

1. Freeman Brown, Evaluation of Planter Attachments to Maximize the Likelihood of Establishing Profitable Cotton Stands in High Biomass Cover Crops, University of Tennessee

2. Cheyenne Williams, Days and DD60s to Key Growth Stages in Modern Cultivars of Varying Maturities, University of Tennessee

3. Gurpreet Virk, Cotton Seedling Vigor As Affected By First True Leaf Physiology Under Different Field Conditions, University of Georgia

#### PhD

1. Clayton White, Managing Small Grain Cover Crops in Texas High Plains Cotton, Texas Tech University

2. Bhupinder Singh, Rapid a-Ci Response (RACiR) of Two Gossypium Species Under Drought Conditions, University of Georgia

3. John Williams, Effect of Nitrogen Fertilizer Rates on Cotton (Gossypium hirsutum) Variety Performance, Mississippi State University

# Cotton Agronomy, Physiology, and Soil Conference

## Oral Presentation

### MS



**1.** Gurpreet Virk, Physiological Processes Contributing to Early Season Crop Vigor in Cotton, University of Georgia



**2.** Sarah McClanahan, Effects of Legume and Small Grain Cover Crops with Precision Planted Tillage Radish on Nutrient Cycling and Cotton Performance in Southeastern Virginia, Virginia Tech



**3.** Savana Davis, Cotton Varietal Response to Potassium Application Rates Under Irrigated and Dryland Conditions, Mississippi State University

# Cotton Agronomy, Physiology, and Soil Conference

## Oral Presentation

### PhD



**1.** Jeff Siegfried, Proximal and Unmanned Aerial Remote Sensing for Monitoring Crop Growth and Stress, Texas A&M University



**2.** Joseph Burke, A Novel Evaluation of Soil Health in Semi-Arid Texas Cotton Production, Texas A&M University



**3.** Shawn Butler, Making the Replant Decision: Utilizing an Aerial Platform and Surface Regression Modeling, University of Tennessee

# Cotton Improvements Conference



## MS

1. Jacob W. James, Enhancing US Cotton Classing with Varietal Data (LT), Texas Tech University

2. Christian Hitzelberger, Development and Characterization of Chromosome Segment Substitution Lines, Texas A&M University

3. Wenzhuo Wu, High-Throughput Phenotyping That Improves the Efficiency of a Cotton Plant Breeding System (LT), Texas A&M University



## PhD

1. Luis M De Santiago, Recombination Rates in Interspecific and Intraspecific Cotton Mapping Populations (LT), Texas A&M University

2. Zach Hinds, Exploring Variation in AFIS Length Distribution of 8 F2 Populations, Texas Tech University

3. Drutdaman Bhangu, Proof of Concept: Gene Based Breeding Vs Field Based Breeding (LT), Texas A&M University

# Cotton Insects Conference



## MS

1. Tim Bryant, Brown Stink Bug, Euschistus servus, Management Thresholds for Seedling and Grain Developing Maize in Southeastern Virginia, Virginia Tech Univ.

2. Mary Sillman, Dancing Bees Communicate Foraging Preferences in Row Crop Production Systems, Virginia Tech Univ.

## PhD

1. Aaron Cato, Relating Rice Stink Bug, Oebalus Pugnax, Sampling to Direct and Indirect Yield Loss in Rice, University of Arkansas

2. Seth Dorman, Landscape and Climatic Factors Affecting Tarnished Plant Bug (Lygus lineolaris) Infestations in Mid-Atlantic Cotton Systems, Virginia Tech Univ.