

# econogram

Agricultural & Resource Economics  
Spring/Summer 2020

A man with a mustache and goatee, wearing a blue button-down shirt and khaki pants, stands in front of a brick building with large windows. The building is partially obscured by green foliage and a tree branch at the top. The man is smiling and looking towards the camera.

**Chris Clark  
Takes the Helm**



# econogram



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## ON THE COVER:

Chris Clark takes the helm as department head.



## ECONOGRAM COMMITTEE

Becky Bowling  
Tina M. Johnson



# *Note From the Department Head*



Greetings,

I am honored and excited by the opportunity to serve as the new head of the Department of Agricultural and Resource Economics. And, on behalf of myself and the entire department, I want to start by offering our thanks to Kim Jensen for serving as the interim head. Kim effected positive change during her time in the interim role and for that we are all grateful.

While I may be new on the job, in a broader sense we're all new on the job as we strive to adapt to what is commonly being called a "new normal." Like the rest of the university, we were forced to move our spring courses online in March with only a week's notice. While the university aims to be back on campus for the fall, no one yet knows whether that will happen and, if it does, what it will look like.

What we do know is that we will make every possible effort to keep our students, staff, and faculty safe. We also know that, one way or the other, we will ultimately learn to defeat or live with this virus. As a department, we've moved entirely online but are busy preparing to be back on campus with a new set of rules and way of operating.

Most of all, we will continue to do what is expected of us. Along these lines, we are happy to share some of our accomplishments, research, and programs over the last six months in these pages. Outstanding students and alumni? We've got that, too.

Alumni and friends, be watching for your invitations to join us via Zoom as we discuss COVID-19 and the vital work generated by the department during this unprecedented time in our history.

Finally, while this publication is primarily about us, we want you to know we're thinking about you. We're working to provide the information that can help policymakers, agricultural producers, and businesses make decisions during these difficult times. If there is more that we should be doing or anything we can do to help you, please don't hesitate to reach out to us.

*Chris Clark*

# Responding to COVID-19

As the world continues to grapple with COVID-19, the university has responded with responsible safeguards that are designed to protect students, faculty, staff, and Tennesseans. Faculty were given approximately one week to convert their classes to online courses—no small task.

The Department of Agricultural and Resource Economics converted their courses and began to seek ways to help producers and businesses navigate during these uncertain times. To accomplish this, the following COVID-specific publications were developed, with more likely to follow:

- [D 64](#): Updates on the H-2A Program in the Midst of COVID-19
- [D 65-A](#): Paycheck Protection Program
- [D 65-B](#): Paycheck Protection Program: Round II
- [D 66-A](#): Updates on the H-2A Program and COVID-19: Expansion of the Categories of H-2 Visa Applicants Whose Applications Can Be Decided On Without an In-Person Interview
- [D 66-B](#): Spanish version of D 66-A
- [D 67](#): A Fact Sheet of Title II of the CARES Act: “Assistance for American Workers, Families, and Businesses”
- [D 100](#): Information to Protect Farmworkers and Their Employers in the Midst of COVID-19
- [D 101](#): COVID-19 Impact on Activity for Smaller Agricultural Processing and Marketing Firms During May 17-23, 2020

**CNN Business** interviewed Andrew Muhammad for a [story](#) regarding how the coronavirus pandemic is affecting agriculture and sought his expertise regarding possible impacts to the import/export produce market.

In related news, Andrew Muhammad and Aaron Smith authored two publications addressing the *U.S.-China Phase One Trade Agreement* implications for U.S. [forestry](#) and [agriculture](#). The publications also refer to possible complications caused by the coronavirus in implementing the Phase One Trade Agreement.

Update  
your alumni  
information  
[HERE](#)

Feel free to [CONTACT US](#)  
with story ideas or career  
updates for consideration  
in future editions of the  
*Econogram*. We'd love to  
hear from you!



## **AREC Alum Nathan Murray Named SEC Brad Davis Community Service Award Winner**

*Swimming and Diving Athlete Receives \$5,000 Post-Graduate Scholarship from SEC*

Departmental alum Nathan Murray ('20) was one of only two students from Tennessee to be selected to receive the 2019-2020 Brad Davis Community Service Award from the Southeastern Conference.

The SEC Community Service Post-Graduate Scholarship is named for former associate commissioner Brad Davis. As a winner of the award, Murray will receive a \$5,000 post-graduate scholarship.

According to a [press release](#) from UT Athletics, during his time at UT, Murray accumulated more than 100 hours of community service, serving at Knox Area Rescue Ministries, Young-Williams Animal Center, and the Emerald Youth Foundation. He is also a member of the 2017-2018 VOLeaders class and traveled to Ecuador in the summer of 2018. The trip is a cultural exchange to provide leadership opportunities focused on community development, social change, and inclusion through sport.

Prior to coming to Tennessee, Murray was a three-time All-American backstroke who qualified for the 2016 Olympic trials in the 200-meter backstroke.

Murray was the first to graduate from AREC with a degree in Food and Agricultural Business with a concentration in Food Industry Management. He was on the SEC Academic Honor Roll for three years.

# Ag Economists Launch Video Series to Help Producers

## *Crops, Cattle, and Charley*



A trio of AREC economists have launched a new video series—*Crops, Cattle, and Charley*—to keep agricultural producers updated with the latest information, providing clear and relevant insight on a variety of agricultural topics. Pictured above, from left, are Extension livestock economist Andrew Griffith; farm financial management economist Charley Martinez; and Extension crops economist Aaron Smith. Videos are typically released twice weekly, so be sure to stay tuned on [Twitter](#), [Facebook](#), and [YouTube](#).

## English Presents at International Biomass Conference



Institute Professor Burt English was a featured speaker at this year's International Biomass Conference, where he presented the "Economic Feasibility Analysis of Pennycress to Sustainable Aviation Fuel Supply Chain: A Case Study of Nashville International Airport."



# Muhammad Helps Spearhead Premier Mid-South Agricultural Trade Conference



Andrew Muhammad, agricultural trade expert and Blasingame Chair of Excellence in Agricultural Policy, served as a speaker and panel member for the first-ever [2020 Mid-South Agricultural Trade Conference](#) that was held in March at UT Martin. The conference provided an opportunity for farmers, agribusinesses, and agriculture leaders in Tennessee and the Mid-South to learn more about the role, importance, and significance of international trade on local agricultural production, markets, and economies, as well as increase awareness of agricultural exporting tools and resources.

Organized by the Center for Profitable Agriculture, the conference featured

seven experts who shared their insights and engaged in panel discussions.

Other conference speakers included Daniel Whitley, USDA Foreign Agricultural Service; Jody Campiche, National Cotton Council; Whitney Flatt, Tennessee Department of Agriculture; Jennifer Houston, National Cattlemen's Beef Association; Parks Wells, Tennessee Soybean Promotion Council; and Rob Dongoski, Ernst and Young.

The conference was very well received, and plans are currently underway for the 2nd Annual Mid-South Agricultural Trade Conference for the upcoming spring.

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# CHRIS CLARK

## NAMED DEPARTMENT HEAD

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**T**he Department of Agricultural and Resource Economics is proud to announce the selection of Chris Clark as its newly appointed leader. Most people familiar with the department will recognize Clark who has been a valuable faculty member since 2002.

Clark earned his PhD in economics from Vanderbilt University. He also earned a doctor of jurisprudence from Tulane University and a bachelor's degree in business administration (economics) from UT.

His dedication to the department is evidenced in the classroom, research teams, and leadership roles. In 2016-2017, he served as interim department head, and in 2017, he helped lead the Institute's ten-year strategic plan. In the classroom, he has taught courses in advanced natural resource economics; advanced topics in natural resource economics; agricultural law; agricultural and environmental law; environmental law; microeconomic analysis; and natural resource economics.

One recent [example](#) of his research involves work with an interdisciplinary team of researchers from UT in a collaborative effort with the nonprofit Resource Capture to develop a more sustainable way to manage the booming Nashville metropolitan area's organic wastes. He excels at collaborative efforts, using that strength to help develop crucial solutions to some of our most challenging environmental problems.

Additionally, he is a member of the Bio-based Energy Analysis Group and the Natural Resource Policy Center.

Such dedication has resulted in numerous awards, most recently the Webster Pendergrass Outstanding Service Award and the Success in Multidisciplinary Research Award (as a member of the *Water for Agriculture* team).

He also helped provide leadership during the department's recent 100-year anniversary celebration, spending countless hours coordinating the associated events to mark a century of departmental dedication.

The newly appointed leader was recently quoted as saying, "During my time at UT, the Department of Agricultural and Resource Economics has benefited from outstanding leadership. I am honored to have the opportunity to continue and build upon that tradition. As a society, we find ourselves in an unsettling period of great transition, and we are in desperate need of leaders who can help us navigate these times with their expertise. The department is well-positioned to supply some of that expertise and help develop some of those leaders."

Clark replaces Delton Gerloff who retired in 2019, after twenty-six years of service. Kim Jensen graciously served as interim department head until Clark took the reins on April 1.



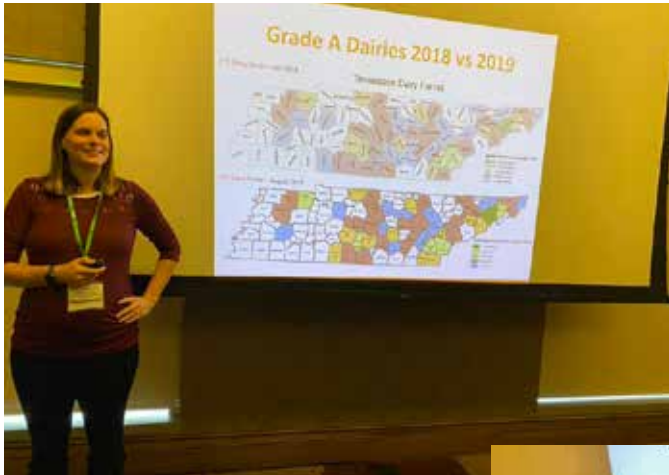
# UTIA INSTITUTE OF AGRICULTURE

THE UNIVERSITY OF TENNESSEE



Real. 1

# AREC Represents at Southern Agricultural Economics Association



AREC assistant professor Karen DeLong presented on Tennessee consumers' preferences for the new Tennessee Milk logo.

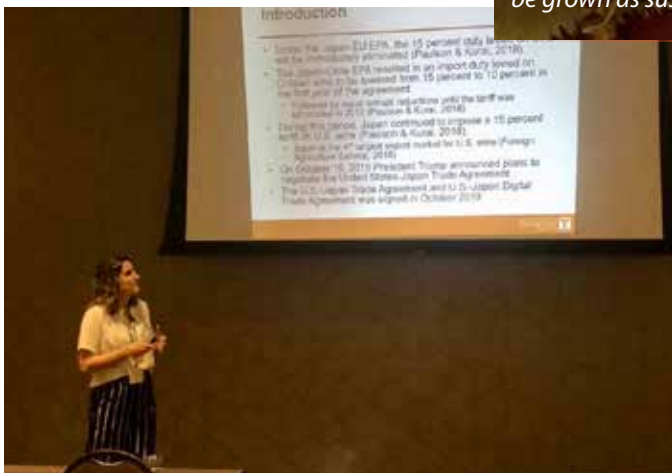


McKenzie Gill gave her presentation on the hard apple cider industry.



Alan Robertson presents findings from an Enterprise analysis of Carinata oilseed to be grown as sustainable aviation fuel.

Pictured below, Emily Greear presented her work on the impacts of global trade agreements on demand.



Pictured below, Ty Wolaver presented on some of the results of the Rwanda poultry project.







## AREC Celebrates 60 Years of Federal Income Tax Education

Professor emeritus Clark Garland continues to lead federal income tax education seminars across the state. Eight two-day sessions were held in 2019, and 764 accountants and tax preparers earned over 12,200 continuing professional education credits by attending these educational training sessions. The seminars provide an excellent opportunity for participants to maintain knowledge and skills for their profession.

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## FARM MANAGER'S UNIVERSITY

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In 2020, AREC faculty and staff began a popular new course series called Farm Manager's University to help farmers create a strong business foundation and to help them better manage their operations. The course focused on the decision-making process to help producers utilize resources on their farm efficiently.

Topics included financial statements; lending and banking; equipment purchased; management transition; financial case study "Using Your Information"; and recordkeeping and taxes.

Program committee members include David Bilderback, Chris Boyer, Charley Martinez, Alice Rhea, Jonathan Rhea, Aaron Smith, and Jon Walton.

Be sure to [browse](#) course offerings often, as classes continue to be added.

***"Best class I have taken. Lot of information for a short class."***

***— Workshop Participant***

# HERBERT COLLEGE OF AGRICULTURE 2020 AWARDS

## AREC HONOREES

**Karen DeLong**



W.F. and Golda Moss Outstanding  
Teacher Award-Fewer Than 10 Years  
&  
W.S. Overton Faculty Merit Award

**Bill Park**



Dr. John B. Riley  
Life Impact Award

**Kim Jensen**



Glyn & Lynda Newton  
Entrepreneurial Development  
Award



## OUTSTANDING STUDENT AWARDS

### Outstanding Seniors



### Outstanding Junior



### Outstanding Sophomore



**Harley H. & Juanita Irwin**  
**Agricultural Economics Service Extension Award**  
*2019 Outstanding County Agent Educational and Service Program*



**Aurie Mobley**  
Western Region



**Jonathan Rheas**  
Eastern Region



**Larry Moorehead**  
Central Region

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**Years of Service Recognition**

**25 years of service**

Renee D. Sharp, Administrative Support Assistant

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**Andrew Muhammad**



**Quality of Communication Award**  
**Agricultural and Applied Economics**  
**Association**



# Executive Seminar Series Maintains Strong Momentum

*Robert Brown, president and chief forecasting officer of Robert Brown, Inc., and Wade Smith, vice president of the OSI Group, challenge students with important, real-world questions.*



Students enrolled in the Department of Agricultural and Resource Economics' (AREC) popular Executive Seminar Series benefited once again from an impressive array of successful agricultural professionals and industry leaders, many of whom are Herbert College of Agriculture alumni. This provided the students with an insider's perspective to the most pressing agricultural issues and an opportunity to consider the myriad of options available to them as they prepare to chart their own career paths.

"Topics covered in this class aren't from a textbook but from the real world, taught by people who are at the cutting edge of these issues, industries, and policies," said AREC associate professor Chris Boyer who co-led and developed the class with AREC assistant professor Karen DeLong.

Speakers for the 2019 series included:

- Tim Cross, senior vice president and senior vice chancellor, UTIA
- Jim Herbert, founder and former CEO of Neogen
- Lynn Petr, executive director of Shangri-La Therapeutic Academy of Riding (STAR)
- Julie Bowling, assistant general council, Tennessee Farmers Insurance Companies
- Jeff Siegrist, managing partner of Siegrist & Company
- Donnie Smith, former CEO of Tyson Foods and UT Board of Trustees member
- Kelly Jones, former vice president of R&D for Mondelēz International
- Rick and Bonnie Malir, founders and owners of City BBQ
- Bill Johnson, president and CEO of Farm Credit Mid-America
- Magdy Hefnawy, president of Ag-Tech International, Inc.
- Andy Holt, Tennessee state representative
- Wade Smith, vice president of OSI Group
- Robert Brown, president and chief forecasting officer of Robert Brown, Inc.

"This class has a remarkable impact on our students," said DeLong. "They are able to realize that the entrepreneurs, executives, and industry leaders who speak to them each week were once students just like them. It has empowered our students to realize that one day they will achieve the same success and will come back and speak in this class."

"This has been one of my favorite classes throughout college," said Herbert College of Agriculture student Christiana Greer. "Getting to hear how different individuals have used their degrees and found success has been so motivational. It opened my eyes to all the different paths that I can take after I graduate."

The AREC 395: Executive Seminar Series will be offered again in fall 2020.

## Cattle Genomics Could Breed Profits

*UTIA Researchers Explore Value-Added Marketing Opportunities*



AREC researchers have been awarded a \$156,000 grant to examine value-added opportunities for marketing cattle using genetic information at the seedstock, cow-calf, and stocker producer stages of the beef supply chain. The project links the flow of cattle genetic information along the supply chain, equipping cattle producers with information to help make decisions on which value-added genetics may be valuable to naturally breed in their calves. The research team includes Karen DeLong, Chris Boyer, Andrew Griffith, and Kim Jensen. Click [here](#) for full article.

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## Trade Dispute Effects on Tennessee Agriculture Outlined in Yearly Report to Governor

*Agricultural Exports Expected to Increase in 2020*

Despite another year of international trade conflicts, AREC researchers have outlined the continued economic strength that the agri-forestry industrial complex provides to the state of Tennessee in the 2020 volume of *An Economic Report to the Governor of the State of Tennessee*. (Click [here](#) for full article.) AREC researchers responsible for the agri-forestry analyses include Andrew Muhammad, Burton English, Kimberly Jensen, Jamey Menard, Andrew Griffith, David Hughes, Aaron Smith, and Edward Yu. The complete economic [report](#) to the governor is prepared by Matthew Murray and the Boyd Center for Business and Economic Research at UT's Haslam College of Business.



## **New Approach to Combat Opioid Crisis in Rural Tennessee**

*UT Extension to Lead Pilot Program*



UT Extension has been awarded a grant for \$324,841 to lead a joint effort to combat the opioid crisis in Tennessee via a pilot program called PROMPT TN (Preventing Rural Opioid Misuse Through Partnerships and Training). Lisa Washburn is the project leader and associate professor and UT Extension community health specialist in the Department of Family and Consumer Sciences. AREC's Sreedhar Upendram is providing support to the project. Click [here](#) for full article.



## **UT Libraries and AREC Target Digital Literacy with UT Collaboration and Innovation Grant**

Assistant professor and agricultural and natural resources librarian Isabella Baxter (principal investigator) and Sreedhar Upendram, AREC assistant professor, have been awarded a grant to increase digital literacy skills for sixty-eight counties in Tennessee that have been identified as needing a hand. This program will create the necessary training curriculum and materials to increase digital literacy skills. External partners will include UT Extension, particularly 4-H. The program will also focus on building partnerships with public libraries and K 12 schools in communities, providing a location for trainings and a support system for sustaining digital literacy programs beyond this program's conclusion. The program will also be translated into Spanish to increase its reach.



# Faculty Investigate the Economics of Coffee Cooperatives in Mexico

In January 2019, AREC faculty members Carlos Trejo-Pech (principal investigator), Margarita Velandia, and Department of Agricultural Leadership, Education, and Communications' Christopher Stripling, in coordination with faculty from Colegio de Postgraduados and Universidad Autónoma Chapingo, started field research work in an effort to understand the economics of certified coffee production through cooperatives in an economically vulnerable region in the state of Veracruz, Mexico. The team investigated strategies that could help increase or maintain grower engagement with cooperatives and promote the long-term sustainability of cooperatives as a means for certified coffee farmers to access high-value export markets.

Trejo-Pech and Velandia have previous experience working with faculty in the Veracruz area of Mexico and developed a peer-reviewed journal publication focused on identifying the factors influencing coffee grower engagement with cooperatives. This preliminary work helped to better understand the importance of cooperatives in the Mexican coffee supply chain and to identify some challenges to the long-term sustainability of these organizations. To further explore these challenges and identify factors that strengthen coffee cooperatives, additional funding was necessary. This funding was made possible by the [Smith International Center](#).

The project team is exploring opportunities to continue the work. Staff from the Smith International Center have helped the team search for additional funding opportunities.



*Project partners José Arana-Coronado, Roselia Servín-Juárez, and Benigno Rodríguez-Padrón visiting the University of Tennessee.*



*Coffee plant nursery in the state of Veracruz, Mexico.*



*Pictured left, Christopher Stripling and Margarita Velandia interviewing a coffee cooperative leader Esteban Escamilla-Prado, a specialist in organic coffee production. The picture on the right is of Christopher Stripling, José Arana-Coronado, Roselia Servín-Juárez, Margarita Velandia, and Carlos Trejo-Pech, during the project partners' visit to UTIA in August 2019.*



# Welcome New Faculty



Charles “Charley” Martinez has joined the department where he will develop and deliver a nationally recognized, statewide, integrated Extension and research program focused on farm and financial management. His appointment is 75 percent Extension and 25 percent research.

“I hope to build a farm management and financial program that can be beneficial for all of the producers in Tennessee, regardless of the size of their operation,” said Martinez. “I look forward to working with producers across the state on practical problems and help them achieve useful solutions.”

His research interests revolve around a mix of meat and livestock industries, farm production/management, and experimental economics.

Prior to joining the department, he earned a PhD in agricultural economics from Texas A&M University with specializations in livestock economics and meat demand. His bachelor’s degree in agricultural business—ranch management—was also earned at Texas A&M University.

He and his family currently operate a herd in Texas where they raise Simmental and Simbrah.



# Welcome



*Brittany Gentry*

The department is pleased to welcome Brittany Gentry who is now serving as the administrative support assistant for the graduate studies program.

Gentry is no stranger to Morgan Hall, having earned her bachelor's degree from our department in the spring of 2018, with a minor in plant sciences.

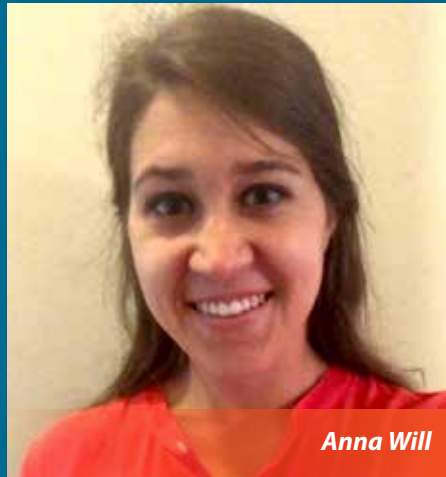
Prior to graduating, she held an internship with the East Tennessee AgResearch and Education Center for approximately two years. Some of her duties included

tending to the calves, assisting at the organic crops unit, and helping researchers with their projects.

She indicated that the most gratifying part of her new role is getting to know the graduate students and learning more about their research.

"It's also wonderful to be working with the faculty who taught me so much during my time in the program," Gentry said. "I'm excited to see how I grow with the department, as well as give back to the program."

# e New Staff



*Anna Will*

**A**lso joining us is Anna Will who will be serving as our first student success advisor. She will also be serving in the same capacity with the Department of Agricultural Leadership, Education, and Communications.

Prior to joining us at UTIA, she worked as a graduate advisor for the Student Union Board of Governors and in the Division of Student Affairs at the University of Connecticut.

Will earned a master's degree in higher education and student affairs from the

University of Connecticut and a bachelor's degree in biology from Indiana University.

In addition to her experience working in student affairs, she brings agricultural experience, as she grew up on a dairy farm in Indiana. "I am excited to begin working with and learning from AREC students, staff, and faculty," said Will. "This is a perfect opportunity to combine my love for the agriculture industry and passion for supporting students during their college journey. Go Vols!"

*Joe Lowe (MS '13) and wife Cassie on their eighth-generation farm in Warren County, Kentucky. Joe and his father Kenneth breed around 400 purebred Angus cows per year, making them the largest Angus breeder in the state.*





# OAK HOLLOW FARM

## JOE LOWE AREC MS '13



### AREC ALUM JOE LOWE (MS '13) HAS BEEN A TRUE ADVOCATE FOR THE BEEF

industry and has been featured most recently in *USA Today* and the National Cattlemen's Beef Association's podcast, "Cattlemen's Call."

In May, *USA Today* ran an [article](#) entitled "'Cows Will Need Bred': Coronavirus is Hitting the Meat Industry All the Way Up to Animal Breeders" that featured Lowe. COVID-19 infections caused some meat plants to close, causing a ripple effect felt throughout the food supply chain, including the decision by some farmers to delay the purchase of bulls for breeding, which could affect the food supply in the future. Lowe shared industry insights and his increased attention on growing direct-to-consumer sales, which could help offset any lost bull sales.

NCBA's "[Cattlemen's Call](#)" podcast also tapped Lowe's expertise, featuring Lowe and two other cattle producers to share their experiences in the direct-to-consumer marketplace. In addition to providing advice, Lowe answered callers' questions and shared important considerations to take into account regarding the direct-to-consumer model.

The Lowe's Oak Hollow Farm is an eighth-generation cattle farm, which means they've farmed their land for approximately 220 years. More than 10,000 years ago, a nearby cave collapsed that caused a

hollow in the hillside, creating a large cave that runs underneath their farm that is one of the oldest cave glyphs in North America.

Joe and his father Kenneth breed around 400 purebred Angus cows per year on their Warren County, Kentucky, farm, making them the largest Angus breeder in the state. Lowe estimated that bulls they have raised and sold to farmers in the region produce about 10,000 calves per year.

Last year, Lowe and fellow alumna Caroline Holt were chosen to represent beef cattle producers in Washington, DC, at the 2019 Young Cattlemen's Conference. They were among sixty beef leaders selected from across the country to participate in ten days of intensive leadership training and a three-city tour that showcased all facets of the beef industry.

Lowe also continues to give back to his alma mater, serving as a guest speaker in the 2019 fall semester's AREC 444 class on the value of data in beef cattle production. 🍷

# Graduate Degrees Awarded

## Master of Science in Agricultural & Resource Economics

### Fall 2019

Kelsey Vourazeris, dual MS-MBA

### Spring 2020

Amelia Grace Ahles  
Mackenzie Gill  
Emily Greear  
Yung-Lun Lo  
Kevin Robertson

## Agricultural & Resource Economics Undergraduate Degrees Awarded

### Bachelor of Science in Food & Agricultural Business

#### Fall 2019

Austin William Brown  
Bradford Jason Carter  
Matthew Delaney Feiden  
Janey Melissa Green  
Emma Kay Morgan  
Macy Christina Rogers  
Haley Leann Webb

#### Spring 2020

Parker Bryce Breuel  
Brandon Conley  
Justin Lee Cross  
Riley Allen Denton  
Colin Nathaniel Ray Jennings  
Mary Lynn Marks  
Tyler A. Millsaps  
Nathan Murray  
Jordan Kelsey Peterson  
Caleb Walker Starnes

### Bachelor of Science in Natural Resource & Environmental Economics

#### Spring 2020

Isabella Victoria Galyk  
Rachel Heckle  
Hailey N. Kraft  
Luke William Shoffner  
Kathleen A. Slice



## Robertson Wins in Semifinal Round of UT Three-Minute Thesis Competition

In February, AREC graduate students Alan Robertson (MS '20) and Emily Greear (MS '20) competed in the 2020 Herbert College of Agriculture Three-Minute Thesis (3MT) competition, *both* advancing to the UT campus regional semifinals—no small feat! Robertson then won his semifinal round of the UT 3MT competition, going up against all PhD competitors.

Competitors of the 3MT competition are literally given three minutes to explain and engage the audience in their research. Robertson presented his research analyzing the financial feasibility of Carinata

(*Brassica carinata* A. Braun) being grown as a cover crop in the greater West Tennessee region to supply the Memphis International Airport with sustainable aviation fuel. A profit-, risk-, and break-even analysis for the crop enterprise was conducted as a part of his master's thesis. The hope is that its use as a winter-season cover crop will aid in environmental efforts, as well as provide additional revenue for producers.

Suspension of activities due to COVID-19 caused the final competition to be canceled; however, we have no doubt he would have continued being impressive!

To learn how, check out our  
**GIVING  
PAGE!**

INTERESTED IN SUPPORTING  
FUTURE VOLS?





## Starnes is One of Eighteen Chosen Nationwide for NCBA Internship

AREC student Caleb Starnes (pictured left; top row, far right) was one of only eighteen students chosen nationwide for a highly competitive internship with the National Cattlemen's Beef Association (NCBA) Convention and Trade Show. Working in San Antonio, Texas, alongside NCBA staff to set up sections of the trade show, Starnes had the opportunity to network with members of the organization and learn more about what NCBA does for cattle farmers and ranchers across the nation. As the week continued, he met producers in all of the different sectors of beef production from around the world. He also had the opportunity to network with leaders in the industry and learn about some of the latest advancements in beef production. "I would highly recommend this internship experience to anyone who is passionate about the beef industry and wants to make valuable connections with people involved in the industry around the world," Starnes said.

## 2019 Farm Credit Scholars Participate in Tennessee Agricultural Leadership Forum



## 2020 Collegiate Discussion Meet



*Students from all undergraduate majors in the Herbert College of Agriculture had the opportunity to compete in the 2020 Collegiate Discussion Meet, cosponsored by Tennessee Farm Bureau and the Department of Agricultural and Resource Economics. Participants pictured above, from left, are Shelby Mainord, Beth Anne Ray, Simone Yates, and Bryce Trull. Shelby Mainord won this year's competition and will move on to compete at the state level.*



## 2020 SAEA Quiz Bowl



*Congratulations to Ilan Kane (above, left) for taking second place in the Southern Agricultural Economics Association's Quiz Bowl! Also competing in this year's competition (above, right) are AREC students Sarah Cantrell, Shelby Mainord, Hence Duncan, Ilan Kane, Madison Kilbarger, and Beth Anne Ray.*







# Centennial Tailgate



## Let's connect

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RESOURCE ECONOMICS  
**UTIA** INSTITUTE OF  
AGRICULTURE  
THE UNIVERSITY OF TENNESSEE

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