

FEBRUARY 9, 2018 | VOLUME 76

# ANIMAL & DAIRY SCIENCES NEWSLETTER

MISSISSIPPI STATE UNIVERSITY  
ANIMAL AND DAIRY SCIENCES

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# Grad Student Spotlight

## COURTNEY PHILLIPS

Courtney Phillips is a Ph.D. student from San Antonio, Texas studying Animal and Dairy Sciences with a focus on Equine Nutrition and Exercise Physiology. Her major professor is Dr. Clay Cavinder. Courtney grew up riding English and showing locally in hunters and jumpers before playing polo in college. She aspired to be a vet but changed her mind during her undergraduate at Texas A&M University. She decided to pursue her Master's at Texas A&M University and upon graduation, became a Nutritional Consultant for Hill's Science Diet. Courtney began her studies at Mississippi State University in the Fall of 2016. She was formerly the assistant coach of the MSU English Equestrian Team and currently is the assistant coach of the Horse Judging Team. She conducted a research project exploring the effect of probiotics on apparent nutrient digestibility and the fecal microbial population in the sedentary horse, as well as blood metabolites in the exercising horse. Currently, Courtney is preparing to begin a project studying the effect of prebiotics on apparent nutrient digestibility, the fecal microbial population, and hormone interactions (insulin and PYY) on normal and insulin resistant horses.



# SMALL RUMINANT PRODUCTION WORKSHOP

**SATURDAY, MARCH 17, 2018 (7:30 AM—5:00 PM)**

MISSISSIPPI STATE UNIVERSITY—BOST CONFERENCE CENTER

190 BOST Dr., STARKVILLE, MS 39759



Demand for goat and sheep meat, milk, cheese, and hide has steadily increased in the United States during the last 10 years. These small ruminants have a high economic value because they are efficient converters of low-quality forages into quality meat, milk and other specialty markets. Dig deeper into goat and sheep production by increasing your knowledge in grazing management, health, breeding and genetics, and marketing strategies. Speakers include local producers and researchers from across the southeast.

## Topics Include:

- ⇒ ***Beginning a Goat/Sheep Operation***
- ⇒ ***Marketing Strategies***
- ⇒ ***Animal Health***
- ⇒ ***Nutrition***
- ⇒ ***Reproduction***
- ⇒ ***Integrated Grazing Management***
- ⇒ ***Toxic Plants***
- ⇒ ***Meat Quality***
- ⇒ ***Farm Assistance Programs***

Register at <http://www.pss.msstate.edu/workshops/ruminant/>

**Before March 9<sup>th</sup> - \$30/person**

**After March 9<sup>th</sup> - \$35/person**

Includes: lunch, refreshments and workshop materials

\* A pre-workshop forage tour will be offered on Friday, March 16<sup>th</sup> from 4:00 pm to 6:00 pm at the MSU South Farm. This is a free tour, but pre-tour registration is encouraged.

## Workshop Partners

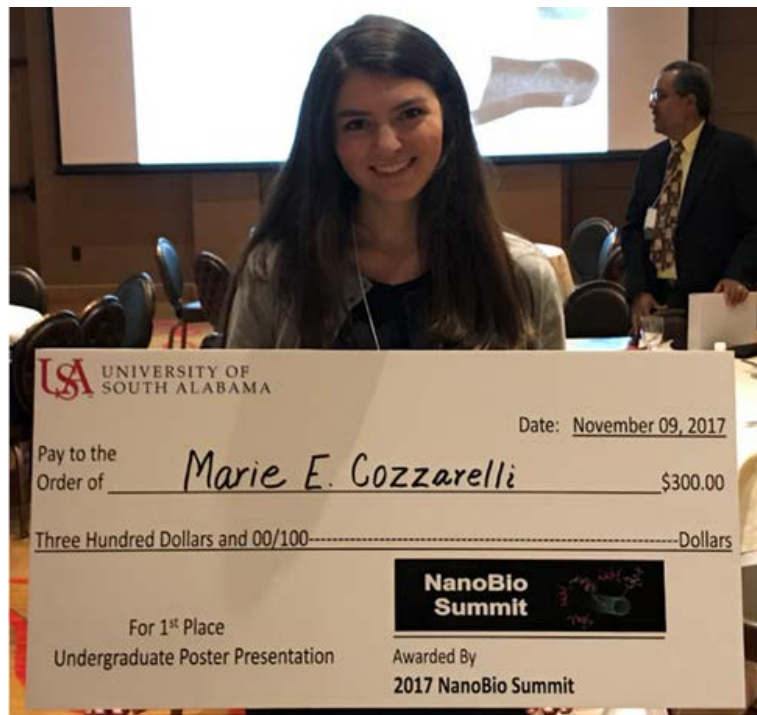


EXTENSION



MS AGRICULTURAL AND FORESTRY EXPERIMENT STATION





# Congrats Marie E. Cozzarelli!

Hello, my name is Marie E. Cozzarelli and I am a junior majoring in Animal and Dairy Sciences with a concentration in Veterinary Science and a minor International Studies in Agriculture. Currently, I am a part of the Undergraduate Research Scholars Program at Mississippi State University and have been working under the supervision of Dr. Jean M. Feugang in the department of Animal and Dairy Sciences. This past November I had the opportunity to travel with other MSU undergraduate students to Atmore, Alabama to attend the 2017 NanobioSummit meeting to present my poster entitled “Comparative analysis of cadmium and cadmium-free quantum dot interactions with boar spermatozoa”.

This was my first time ever attending a research conference and meeting other students who had a similar interest to mine in research. I had the chance to think about my research specifically conducted on animal reproductive physiology in a much broader sense as I heard from medical doctors from Emory University speak about how similar themes in my research could evolve to treat cancer. In addition to this exciting experience and networking with new friends, I was awarded first place in Undergraduate Poster competition.

I feel very lucky to attend a school like Mississippi State University where the guidance from my professors, together with available undergraduate research programs that are giving opportunities for first-hand discovery and performance of benchtop basic research. After working just one semester with Dr. Feugang I have learned so much, not only about reproductive physiology, but also about where I want to direct my future career. This upcoming spring I will be presenting at the local symposium at MSU (Undergraduate Research symposium, organized by the Shackouls Honors College) and I am excited to be working again, this 2018 Spring semester, under Dr. Feugang on new research projects in the department Animal and Dairy Science.



# **MSU RODEO CLUB INTEREST MEETING**

**MONDAY, FEBRUARY 12, AT 5:30 PM**



The Mississippi State University Rodeo Team will hold an interest meeting for the Mississippi State University Rodeo Club. Come visit with our team, eat pizza, and see what we do. You do not have to compete, rodeo, or ride horses to be a part of the club; we welcome everyone! Come join a club and meet people that share an interest and love for rodeo!

We will meet Monday February 12<sup>th</sup> at 5:30 pm in room 4043 (4<sup>th</sup> floor) at the Wise Center. Someone will be by the elevators to point you in the correct direction.

If you have any questions, team members can be contacted by email at [msstaterodeo@gmail.com](mailto:msstaterodeo@gmail.com). Please don't hesitate to contact us if you need us!



## Congratulations Mauricio Oliveira!

Congratulations to Mauricio! He has been accepted to attend the 2018 Cornerstone Dairy Academy®- Servant Leadership training. He was selected among an impressive group of applicants. This learning experience is sure to help him build professional skills and re-energize him throughout the rest of year.

# THAD COCHRAN

## AGRICULTURAL INTERNSHIP

## WASHINGTON D.C.

### Qualifications:

- Student must be enrolled in the College of Agriculture and Life Sciences
- Must have a minimum of 30 semester hours, with the last 15 completed at MSU
- Can be an undergraduate or graduate student.
- Must be in good academic standing
- Must demonstrate good interpersonal/public relations skills
- Must have a record of campus involvement
- Must have a background and interest in Agricultural and Natural Resources Policy



### Student Applications:

CALS Departmental Offices  
or College office (204 Bost)

### Contact:

Amanda Bell  
abell@cals.msstate.edu  
662.325.8112

### Application Deadline:

4.20.2018



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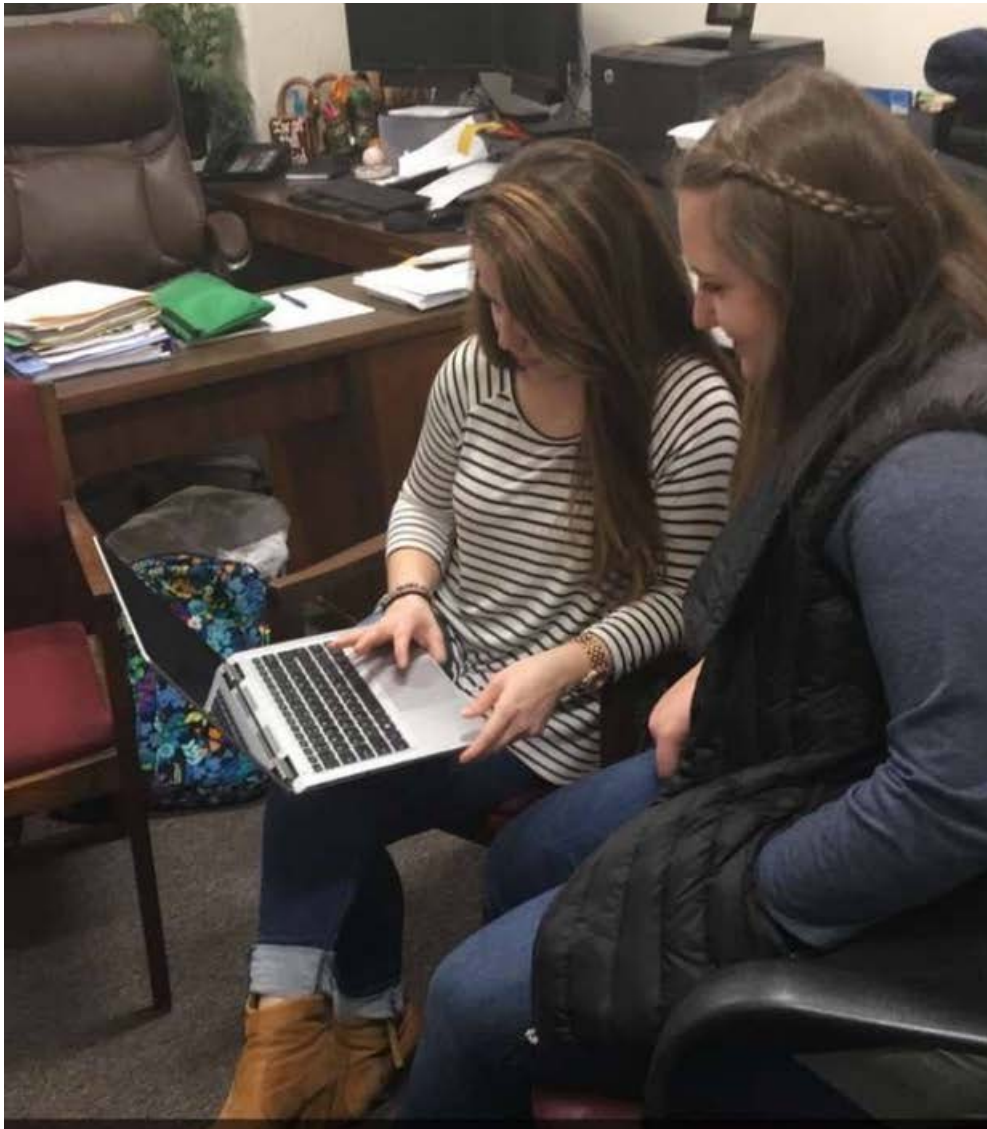


## THAD COCHRAN AGRICULTURAL INTERNSHIP

Students be sure to apply for this great internship opportunity.



# STUDENT SPOTLIGHT



## LAKAN GUELKER 4-H LIVESTOCK AND HORSE PROGRAM INTERN

Meet Lakan Guelker: I am an Animal and Dairy Sciences major with a pre-vet and production concentration. This week I started my internship at Mississippi State University with Dr. Dean Jousan in Livestock Extension Experience. With Dixie Nationals coming up, I have been getting everything prepared for the livestock events. Before the livestock show begins exhibitors have to have health records for each animal. Also, if the exhibitors have commercial or market animals then the animal has to be weighed in and the animal's weight is put on a weight card. This week I have been getting this type of paperwork ready for the shows. See the photo of Dixie and I working our first week.



# Upcoming Events

## BEEF EXTENSION - DR. BRANDI KARISCH & COBIE RUTHERFORD

- February 28- MBCIA Annual Membership Meeting
- March 1- Hinds/MBCIA Spring Bull Sale, Raymond
- March 15-17- MSU Spring Artificial Insemination School



## EQUINE EVENTS - DR. CLAY CAVINDER

- March 24 Hands on Horses
- March 27 - May 1 Horse Management 101
- June 1-3 MSU Horse Judging Camp



## 4-H EVENTS - DR. DEAN JOUSAN

- February 1-8 – Dixie Nationals, Jackson 4-H
- February 9-10 – Dixie National Judging Contest 4-H



## DAIRY EVENTS - DR. AMANDA STONE

- Upcoming programs and publications are online at <http://extension.msstate.edu/dairy>
- For more info, contact Dr. Stone at [amanda.stone@msstate.edu](mailto:amanda.stone@msstate.edu)



## 2018 Refereed Publications

Feugang, Jean M. , Shengfa F. Liao, Scott T. Willard, and Peter L. Ryan. In-depth proteomic analysis of boar spermatozoa through shotgun and gel-based methods. *BMC Genomics*. (2018) 19:62 DOI 10.1186/s12864-018-4442-2.

Liao, Shengfa F., Naresh Regmi, Guoyao Wu. Homeostatic Regulation of Plasma Amino Acid Concentrations. *Frontiers in Bioscience, Landmark*. 23, 640-655, January 1, 2018.

## 2017 Book Chapters: