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335 WISE CENTER DRIVE
MISSISSIPPI STATE, MISSISSIPPI 39762
(662) 325-2802

JOHN BLANTON JR., PH.D.
PROFESSOR & DEPARTMENT HEAD
<https://www.ads.msstate.edu/>

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Congratulations to Erica Carroll on passing the Mississippi Veterinary Technician State Board exams. This is an excellent achievement.



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TIM ARMSTRONG TO RETIRE FROM ADS

Mr. Tim Armstrong has announced his retirement as Meat Lab Manager effective at the end of June 2020. Tim has been a huge part of Animal and Dairy Sciences for over 40 years. He has impacted many former and current ADS students. This is quite evident, as each time we have an ADS alumni event or when Tim is cooking at Dixie Nationals or the State Fair, our alumni enjoy updating him on their lives, careers and reminisce about their time in the ADS Meats

Lab. The impact Tim has had on thousands of our students is evident every day. His influence will be felt for many generations. Due to COVID-19 restrictions, we cannot give Tim the sendoff that he deserves. However, we will plan something for him this fall.

Based on email from Dr. John Blanton



PHOTOS DEPICTING THE POSITIVE WAYS TIM HAS IMPACTED ADS STUDENTS AND CLIENTELE



PHOTOS DEPICTING THE POSITIVE WAYS TIM HAS IMPACTED ADS STUDENTS AND CLIENTELE



Tim: Congratulations on your retirement. Your influence on ADS over the years is immeasurable. Best wishes for you in the woods, on the water, and wherever life takes you.

DR. STONE RECEIVES RECOGNITION FROM ESP

Epsilon Sigma Phi (ESP) is dedicated to fostering standards of excellence in the Extension System and developing the Extension profession and professional. Dr. Amanda Stone, an Assistant Professor in the Department of Animal and Dairy Science, is a member of the PROMISE Grant Team that is focused on farm stress/mental health/opioid misuse. Team members include Dr. David Buys (Nutrition, Food Science, and

Health Promotion), Dr. Holli Seitz (Communications), and Dr. Alisha Hardman (Human Sciences). Recently the team received the ESP's Southern Distinguished Team Award. Congratulations to Dr. Stone and the PROMISE Team.



DR. DINH PROMOTED TO ASSOCIATE PROFESSOR AND GRANTED TENURE BY IHL

Congratulations to Dr. Thu Dinh on the recent announcement of his promotion to Associate Professor and for being granted tenure by the Mississippi Institute of Higher Learning. Dr. Dinh earned his B.E. degree at HCMC University of Technology, Vietnam, and his M.S. and Ph.D. degrees at Texas Tech University.

Dr. Dinh is the Instructor for ADS 3314 - Intro to Meat Science and ADS 8423 - Meat Science. From a

research perspective, Dr. Dinh focuses on 1) meat quality: the oxidation, packaging, and preservation of meat; meat tenderness, flavor, flavor precursors, and composition; and 2) analytical methodology for meat and food research: LC, LC/MS, GC, GC/MS, AA, NIR; method development and validation. Congratulations to Dr. Dinh for this accomplishment.

Announced by Dr. John Blanton and created by Dr. Dean Jousan.



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PHOTO CONTRIBUTION FROM SAMMY BLOSSOM



Sammy Blossom is an alumnus of ADS and captured many photos during his 16-year career with the Mississippi Cattlemen's Association. Enjoy the photo.

Photo courtesy of Sammy Blossom Photography: <https://www.sammyblossomphotography.com/>.

IMPORTANCE OF UNDERGRADUATE EQUINE RESEARCH IN TEACHING STUDENTS

Over the past twenty years, the equine program in the Department of Animal & Dairy Science (ADS) has grown both in research activities and in offering new equine-related classes. Part of these improvements is due to innovative research by equine faculty who desire to better educate and prepare students for a career in the equine industry.

In the spring, two ADS seniors, Ms. Avery Walters and Ms. Samantha Lee, conducted research on the continued improvement of equine undergraduate education. They focused on the value of community engagement programs for equine students and on assessment methods of students in determining improvements in equine handling skills. Ms. Walters and Ms. Lee

worked alongside Dr. Molly Nicodemus and Animal Physiology Graduate Student Mrs. Katie Cagle-Holtcamp in conducting their research.

Both studies were published in the Proceedings of the Spring 2020 MSU Undergraduate Research Symposium. In addition, their work was accepted for poster presentation at the 2020 American Society of Animal Science Annual Meeting, which will be a virtual conference in July. Both seniors plan to graduate this upcoming fall. For more information about this research in equine teaching, contact Dr. Nicodemus at mcn16@msstate.edu.

Submitted by Dr. Molly Nicodemus.

Ms. Samantha Lee researched methods in assessing student skills in equine handling techniques.



Ms. Avery Walters researched the impact of community-engaged learning on student equine handling skills.

2020 REFEREED PUBLICATIONS

- Rubessaa, M., **J.M. Feugang**, M.E. Kandel, S. Schreiber, J. Hesse, F. Salerno, S. Meyers, I. Chu, G. Popescu, and M.B. Wheeler. 2020. High-throughput sperm assay using label-free microscopy: morphometric comparison between different sperm structures of boar and stallion spermatozoa. *Animal Reproduction Science*. 219: Article 106509. <https://www.sciencedirect.com/journal/animal-reproduction-science/vol/219/suppl/C>.
- Mazinani, M., A.A. Naserian, **B.J. Rude**, A.M. Tahmasbi, and R. Valizadeh. 2020. Effects of feeding rumen-protected amino acids on the performance of feedlot calves. *Journal of Advanced Veterinary and Animal Research*. Vol. 7(No. 2): 229–233. <http://doi.org/10.5455/javar.2020.g414>.
- Mazinani, M., A.A. Naserian, **B.J. Rude**, R. Valizadeh, and A. Tahmasbi. 2019. Production of Rumen-Protected Essential Amino Acids with Chemical Technique. *Biosciences Biotechnology Research Asia*. Vol. 16(4), p. 789-795. <http://dx.doi.org/10.13005/bbra/2795>.
- Paes, V.M., J.R. de Figueiredo, **P.L. Ryan**, **S.T. Willard**, and **J.M. Feugang**. 2020. Comparative Analysis of Porcine Follicular Fluid Proteomes of Small and Large Ovarian Follicles. *Biology*. 9(5), 101: <https://doi.org/10.3390/biology9050101>.
- Becker, C.A., R.J. Collier, and **A.E. Stone**. 2020. Invited review: Physiological and behavioral effects of heat stress in dairy cows. *Journal of Dairy Science*. 103(8). <https://doi.org/10.3168/jds.2019-17929>.
- Stone, A.E.** 2020. Symposium review: The most important factors affecting adoption of precision dairy monitoring technologies. *Journal of Dairy Science*. 103(6). <https://doi.org/10.3168/jds.2019-17148>.
- To, K.V., X. Zhang, W. Shao, J.D. Hendrix, M.D. Byron, Y.L. Campbell, T.W. Phillips, **T. Dinh**, and M.W. Schilling. 2020. The effects of dry-cured ham initial water activity on *Tyrophagus putrescentiae* infestations. *Journal of Stored Products Research*. 87:101069. <https://www.sciencedirect.com/science/article/abs/pii/S0022474X20300540?via%3Dihub>
- Bowman, B.A., M.D. Denny, and **A.E. Stone**. 2020. Exploring Producer Innovation Adoption Using an Extension-Led Trialing Program. *Journal of Extension*. 58(1): v58-1rb2. <https://joe.org/joe/2020february/rb2.php>.
- Özbek, M., M. Hitit, E. Ergün, L. Ergün, F. Beyaz, F. Erhan, N. Yildirim, B. Kandil, O. Özgenç, and **E. Memili**. 2020. Expression profile of Toll-like receptor 4 in rat testis and epididymis throughout postnatal development. *First International Journal of Andrologia*. 00:e13518. <https://doi.org/10.1111/and.13518>.
- Gomes, F. P., J. K. Diedrich, A. J. Saviola, **E. Memili**, A. Moura, and J. R. Yates III. 2020. EThcD and 213 nm for top-down analysis of bovine seminal plasma proteoforms on electrophoretic and chromatographic time frames. *Analytical Chemistry*. 92(4): 2979-2987. <https://pubs.acs.org/doi/10.1021/acs.analchem.9b03856>.
- Ugur, M. R., **T. Dinh**, M. Hitit, A. Kaya, E. Topper, B. Didion, and **E. Memili**. 2020. Amino acids of seminal plasma associated with freezability of bull sperm. *Frontiers in Cell and Developmental Biology*. 7(347). <https://www.frontiersin.org/articles/10.3389/fcell.2019.00347/full>.

2020 REFEREED PUBLICATIONS

Hasan, M.S., **M.A. Crenshaw**, and **S.F. Liao**. 2020. Dietary lysine affects amino acid metabolism and growth performance, which may not involve the GH/IGF- axis, in young growing pigs. *Journal of Animal Science*. 98(1): 1-7. <https://academic.oup.com/jas/article/98/1/skaa004/5700336>.

Dr. Dean Jousan, Editor of Riding the Range, a newsletter produced by the Department of Animal and Dairy Sciences at Mississippi State University; P: 662-325-2424; Email: dean.jousan@msstate.edu.

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