John Michael Langdon, II
Assistant Professor of Animal Science
Angelo State University
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EDUCATION:

Doctor of Philosophy, Animal Breeding & Genetics, December 2019; Texas A&M University
Master of Science, Animal Breeding & Genetics**,** May 2015; North Carolina State University
Bachelor of Science, Agricultural & Environmental Technology, December 2012; North Carolina State University
Minor in Agricultural Business Management, December 2012; North Carolina State University

WORK EXPERIENCE:

Assistant professor of Animal Science, Angelo State University, July 12, 2021 – present.

Livestock breeding and genetics consulting on an independent and private basis.

Regional Extension Livestock Field Specialist Missouri, University of Missouri, Sept. 3, 2019 – Feb. 26, 2021.

TEACHING EXPERIENCE:

Texas A&M University

Animal Breeding and Genetics computational lab, 300 level.

Beef Cattle Production and Management lab (and some substitute lectures), 400 level.

Quantitative Genetics substitute lecturer, 600 level.

Genomics substitute lecturer, 600 level.

University of Missouri

Livestock management educational programming; in person, and via Zoom. Topics included genetic selection, traditional vs. genomically enhanced EPDs, pasture management (stocking rate and carrying capacity for cattle), and aspects of seasonal feeding / nutritional requirements and proper management.

NC State University | Texas A&M University

- Technical writing mastery
- Managing large data sets
- Proficient with R, SAS, Microsoft Excel software, and text file utilization for genetic analyses

Farm Experience

- Family farm raises 10,000 hogs (permitted space), 90 cows (cow-calf operation where all breeding stock and most progeny are registered), corn, hay, soybeans, sorghum and wheat
- BQA (Beef Quality Assurance) and PQA (Pork Quality Assurance) certified
- Operating newer John Deere, as well as older Ford and Allis-Chalmers tractors
- Working with livestock (servicing hog houses to remove mortality, placing pigs into house, medicating and vaccinating swine and cattle, tagging newborn calves, halter-breaking and showing cattle, servicing cows)
- Shop work (welding, cutting metal and wood)
- Building cattle fences
- Operating irrigation equipment (i.e., solid set sprinklers and traveler reels)
- Collecting lagoon samples for waste water analysis
- Hay sampling
- Lagoon and sludge surveying

Relevant Coursework

- Genetic prediction using Henderson's mixed-model equations
- Basic, masters, and doctorate level quantitative genetics
- Principles, theory, and application of animal breeding and genetics
- Population Genetics
- Matrix Algebra
- Statistics
- Principles of Genomics
- Beef Cattle Production
- Livestock Nutrition
- Livestock Reproduction
- Animal breeding and genetics seminar
- International agriculture and development
- Animal facilities, structures design, and management
- Agricultural system applications
- Agricultural and environmental safety and health (OSHA)

Profile/Background Information

- I grew up on a working hog and cattle farm.
- God first, family/friends/people second, and work third.
- I firmly hold to the principals of doing unto others as you would have them do unto you, to work both hard and smart, to give my best effort in my work, to always stretch my best to make it better, and honesty is always the best policy.

PROFESSIONAL ASSOCIATIONS:

American Society of Animal Science, 2014 – present

National Swine Improvement Federation, 2014 – present

Beef Improvement Federation, 2016 – present

Dent/Phelps County, MO Cattlemens' Association, 2019 – present

National Cattlemens' Beef Association, 2019 – present

OTHER ACTIVITIES:

- Doctoral Dissertation: *Heritability estimation and modeling strategies utilizing random regression for weaning weight in American Hereford cattle.*
- **Publication** (being peer reviewed for publication with Journal of Animal Science): *Random regression of Hereford percentage intramuscular fat on geographical coordinates.*
- **Publication** (being prepared to send to Journal of Animal Science for peer reviewing): *Heritability estimation and modeling strategies utilizing random regression for weaning weight in American Hereford cattle.*
- Master's Thesis: *The genetics of pig feeding behavior*
- **Publication:** *Dangers of bovine leukosis are heavy on a herd.* Progressive Cattle: Herd Health, Nov. 2020.
- Member of Johnston County Cattleman's Association
- Past member of Young Farmer & Rancher Club both in Johnston County and at NC State
- Past member of Pack Pullers ¼ Scale Tractor Team
- NCSU Semester Dean's List
- Langdon Farm won 4th in the United States in Swine Production for 2011
- Langdon Farm won "Soil and Water Conservation Farm Family of the Year Award" in the state of NC for 2010
- Achieved Eagle Scout ranking
- Won Reserve Grand Champion Red Angus Bull at the NC State Fair in 2009
- Won 1st place in the state of NC in the Environmental Science and Natural Resource proficiency award area and 2nd place in the state of NC for Beef Cattle Production in High School FFA
- Halter-broke and showed cattle since year, 2004
- Won the American FFA Degree (formerly called the American Farmer Degree) after graduation from high school, fall of 2008.