

# CURRICULUM VITAE

Kelly Sotak  
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## Education

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- Doctor of Philosophy, Swine Nutrition*** Expected Graduation: May/August 2015  
*Effects of origin of soybean meal on nutritional value*  
University of Illinois-Urbana Champaign; Champaign, Illinois **GPA 3.72**
- Masters of Science in Animal Science, Swine Nutrition*** May 2012  
*The evaluation of sorghum dried distiller's grains with solubles in weanling pig diets, on finishing pig performance and meat quality, and on lactating sow performance*  
Kansas State University; Manhattan, Kansas **GPA 3.78**
- Bachelors of Science in Animal Science*** May 2008  
University of Missouri-Columbia; Columbia, Missouri

## Employment Experience

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- Graduate Research Assistant** June 2012-Present  
*University of Illinois-Urbana Champaign* *Champaign, Illinois*
- Conduct research trials to:
    - Measure DE and ME concentrations, apparent ileal digestibility, standardized ileal digestibility, and phosphorus digestibility
  - Conduct lab work
    - Bomb calorimetry, crude protein, dry matter, ash, and acid hydrolyzed ether extract analyses
  - Organize and analyze data
  - Present research findings in publications
  - Collaborate with faculty in publication preparations and research activities
  - Assist other graduate students with their trials
- Graduate Research Assistant** June 2010- May 2012  
*Kansas State University* *Manhattan, Kansas*
- Conducted research trials to:
    - Determine the nutrient content of Great Plains sorghum DDGS
    - Evaluate the effects of sorghum DDGS in weanling pig diets
    - Evaluate the effects of sorghum DDGS on finishing pig performance and meat quality
    - Evaluate the effects of sorghum DDGS on lactating sow and litter performance
  - Assisted other graduate students with their trials
  - Prepared protocols for research trials
  - Formulated diets for research trials
  - TA for one Animal Science course per semester
    - Assisted in teaching the class
    - Graded weekly labs, quizzes, or assignments

**Sow Farm Manager***Seaboard Foods*

June 2008-April 2010

*Guymon, Oklahoma*

- Managed a 2,700 head sow farm (breeding, gestation, and farrowing)
- Oversaw 7 employees in daily chores
- Completed daily and weekly paperwork
- Kept farm in compliance with safety and OSHA requirements

**Student Employee***University of Missouri-Columbia, Foremost Dairy Farm*

September 2006-May 2008

*Columbia, Missouri*

- Assisted in daily milking
- Fed and vaccinated calves
- Cleaned and maintained barns

**After Hours Student Technician***University of Missouri-Columbia Veterinary Teaching Hospital*

October 2004-May 2008

*Columbia, Missouri*

- Performed hourly checks on animals in all wards
- Administered hourly treatments to all patients
- Cleaned cages general ICU area
- Assisted the veterinarian during animal codes

**Student Road Intern***Peterson and Smith Equine Hospital*

January 2006-May 2006; May 2007- August 2007

*Ocala, Florida*

- Traveled with the veterinarian to and from client farms
- Stocked the vet truck
- Assisted during treatments and procedures
- Recorded client information for billing purposes

**Student Intern***Walker Standardbreds*

May 2006-August 2006

*Sherman, Illinois*

- Broke 6 month old weanlings (halter, walking with a lead, and grooming)
- Administered medication to sick horses
- Prepared 6 yearlings for sale (grooming, bathing, walking, and teaching commands for start, stop, and square up)

**Student Research Assistant***University of Missouri-Columbia, Life Sciences Center*

May 2005-January 2006

*Columbia, Missouri*

- Cultured cells lines (JEG, HeLa, and JAr cells) to test growth differentiation between normal and low oxygen tensions
- Ordered supplies for the lab
- Mixed solutions in a sterile environment
- Ran assays using Elisa kits (HCG, AFP, and Progesterone detection)

**Student Research Assistant***University of Missouri-Columbia, Animal Science Research Center*

September 2004-May 2005

*Columbia, Missouri*

- Euthanized mice to collect oviducts for embryo collection and transfer
- Ran PCR assays
- Mixed various chemical solutions for lab work
- Cleaned the lab and mouse cages
- Drew blood from mice

## **Publications**

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### ***Peer-Reviewed***

Sotak, K. M., R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, and J. L. Nelssen. 2014. Nutrient database for sorghum distillers dried grains with solubles from ethanol plants in the western plains region and their effects on nursery pig performance. *J. Anim. Sci.* 92:292-302.

### ***Abstracts***

Sotak, K. M. and H. H. Stein. 2014. Concentrations of digestible and metabolizable and net energy in soybean meal produced throughout the United States and fed to pigs. *J. Anim. Sci.* 92(Suppl. 2):68-69 (Abstr.)

Sotak, K. M., M. Song, S. Moreland, and H. H. Stein. 2013. Disappearance of butyrate in the digestive tract of weanling and growing pigs fed diets containing different sources of butyrate. *J. Anim. Sci.* 91(Suppl. 2):110 (Abstr.)

Sotak, K. M., R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, and J. L. Nelssen. 2012. The effects of corn- or sorghum-based diets with or without sorghum dried distiller's grains and solubles on lactating sow and litter performance. *J. Anim. Sci.* 90 (Suppl. 3): 468 (Abstr.)

Sotak, K. M., T. A. Houser, R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, J. L. Nelssen, B. L. Goehring, and G. R. Skaar. 2012. The effects of sorghum dried distiller's grains with solubles on finishing pig growth performance, carcass characteristics, and fat quality. *J. Anim. Sci.* 90 (Suppl. 2): 63 (Abstr.)

Sotak, K. M., R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, and J. L. Nelssen. 2012. The effects of sorghum dried distiller's grains with solubles on nursery pig performance. *J. Anim. Sci.* 90 (Suppl. 2): 66 (Abstr.)

Skaar, G. R., T. A. Houser, R. D. Goodband, B. L. Goehring, A. Stickel, B. M. Gerlach, K. Steele, and K. M. Sotak. 2012. Effects of sorghum grain and sorghum dried distillers grains with solubles on the composition, quality, and sensory attributes of ground pork. *J. Anim. Sci.* (Suppl. 2): 97 (Abstr.)

Sotak, K. M., R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, and J. L. Nelssen. 2011. Nutrient analysis of sorghum dried distillers grains with solubles from ethanol plants located in the western plains region. *J. Anim. Sci.* 89 (Suppl. 2): 77 (Abstr.)

### ***Conference Proceedings and Extension Publications***

Sotak, K. M., and H. H. Stein. 2014. Nutritional Value of Soybean Products. Midwest Swine Nutrition Conference Proceedings. p. 19-25.

Stein, H. H., J. A. Roth, K. M. Sotak, and O. J. Rojas. 2013. Nutritional value of soy products fed to pigs. Swine Focus #004. Univ. Illinois, Urbana.

Sotak, K. M., R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, and J. L. Nelssen. 2012. The effects of corn- or sorghum-based diets with or without sorghum dried distillers grains with solubles on lactating sow and litter performance. Kansas State Univ. Swine Day Report 1074. p. 28-34.

Jones, K. M., K. M. Sotak, S. A. Lawson, and J. D. Hancock. 2012. Effects of ingredients of plant and animal origin on nursery pig performance. Kansas State Univ. Swine Day Report 1074. p. 86-89.

- Sotak, K. M. The evaluation of sorghum dried distiller's grains with solubles in nursery pig diets, on finishing pig performance and meat quality, and on lactating sow performance. 2012. MS Thesis, Kansas State Univ., Manhattan.
- Sotak, K. M., R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, and J. L. Nelssen. 2011. The effects of sorghum dried distiller's grains with soluble on nursery pig performance. Kansas State Univ. Swine Day Report 1056. p. 118-128.
- Sotak, K. M., T. A. Houser, R. D. Goodband, M. D. Tokach, S. S. Dritz, J. M. DeRouchey, J. L. Nelssen, B. L. Goehring, and G. R. Skaar. 2011. The effects of sorghum dried distiller's grains with solubles on finishing pig growth performance, carcass characteristics, and fat quality. Kansas State Univ. Swine Day Report 1056. p. 182-196.
- Skaar, G. R., T. A. Houser, K. M. Sotak, R. D. Goodband, B. L. Goehring, A. Stickel, B. M. Gerlach, and K. Steele. 2011. Effect of sorghum dried distiller's grains with solubles on composition, retail, stability, and sensory attributes of ground pork from barrows and gilts. Kansas State Univ. Swine Day Report 1056. p. 341-353.
- Sotak, K. M., M. D. Tokach, M. Hammer, J. Y. Jacela, S. S. Dritz, D. Mechler, R. D. Goodband, J. M. DeRouchey, and J. L. Nelssen. 2010. A comparison of Denagard, Denagard/CTC and Pulmotil on nursery pig growth performance and economic return. Kansas State Swine Day Report 1038. p. 72-78.
- Sotak, K. M. R. D. Goodband, M. D. Tokach, J. M. DeRouchey, S. S. Dritz, and J. L. Nelssen. 2010. Nutrient analysis of sorghum dried distillers grains with soluble from ethanol plants located in the western plains region. Kansas State Univ. Swine Day Report 1038. p. 265-272.

### ***Presentations: Oral***

- Midwest Meetings 2014. Concentrations of digestible and metabolizable and net energy in soybean meal produced throughout the United States and fed to pigs.
- Joint Annual Meeting 2012. The effects of corn- or sorghum-based diets with or without sorghum dried distiller's grains and solubles on lactating sow and litter performance.
- Midwest Meetings 2012. The effects of sorghum dried distiller's grains with solubles on nursery pig performance.
- Midwest Meetings 2012. The effects of sorghum dried distiller's grains with solubles on finishing pig growth performance, carcass characteristics, and fat quality.

### ***Presentations: Poster***

- Midwest Meetings 2013. Disappearance of butyrate in the digestive tract of weanling and growing pigs fed diets containing different sources of butyrate.
- Midwest Meetings 2011. Nutrient analysis of sorghum dried distillers grains with solubles from ethanol plants located in the western plains region.

### ***Invited Presentations***

- 20<sup>th</sup> Southeast Asian Feed Technology and Nutrition Workshop 2014
- Amino acid digestibility in United States produced soybean meal

- Carbohydrates in soybean meal
- Energy contribution from United States produced soybean meal
- Use of technology to enhance the nutritional value

## **Leadership**

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**Midwest ASAS Graduate Director** March 2013-Present

**Kansas State University Animal Science GSA** January 2011-September 2011  
*Marketing Coordinator*

## **International Experience**

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**Copenhagen, Denmark** June 2013  
*Carbohydrate Metabolism Short Course*  
*Aarhus University*

**Los Baños, Philippines** May 2014-August 2014  
*Visiting Scholar*  
*University of Philippines-Los Baños*

## **Awards**

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**Graduate Student Council Travel Award** April 2012  
*Kansas State University*

**Distillers Grains Research Scholarship** May 2012

**Nesheim Graduate Fellowship** August 2012-August 2014  
*University of Illinois at Urbana-Champaign*

**AYRE International Research and Learning Fellowship** May 2013  
*University of Illinois at Urbana-Champaign*