

# Mr. Wenxuan Dong

No. 2 Yuanmingyuan West Road  
China Agricultural University (CAU)  
College of Animal Science and Technology

Tel: +86-131-2129-5399  
E-mail: dongwx@cau.edu.cn  
Beijing, China, 100193

## Education

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- Sep. 2018 - Jun. 2020                      Master of Science in Agronomy  
   Animal Nutrition and Feed Science  
   China Agricultural University, Beijing, China  
   Supervisor: Defa Li, Ph.D, Professor  
   Thesis title: Comparison on available energy and nutrient digestibility in ingredients between sows and growing pigs
- Sep. 2013 - Jun. 2017                      Bachelor of Science in Agronomy  
   Major: Aquaculture  
   China Agricultural University, Beijing, China

## Experiences

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- 11/2020-present: Designed and working on an experiment on effects of seaweed extract on growth performance, blood parameters, intestinal microbial community, and meat quality in growing-finishing pigs
- 06/2020-10/2020: Designed and completed an experiment on effects of yeast and *bacillus licheniformis* co-culture on growth performance, blood parameters, gut epithelial barrier function, and intestinal microbial community in weaning piglets
- 05/2019-12/2019: Designed and completed an experiment on comparative total tract digestibility of energy and nutrients of eight ingredients fed to adult sows and growing pigs
- 06/2019-09/2019: Assisted in experiments on comparative growth performance of growing-finishing pigs received low-protein diet and normal protein diet based on automatic estimation of body weight using 3D imaging technique (*Model building, Diet formulation*)
- 12/2018-01/2019: Designed an experiment on the evaluation of MAFIC net energy system using caloric efficiency method (*Aborted due to African Swine Fever*)
- 07/2018-12/2018: Designed and completed an experiment on physicochemical properties and energy content of corn grains from different climatic origins fed to growing pigs
- 03/2018-06/2018: Designed and completed an experiment on apparent total tract digestibility of nutrients and the digestible and metabolizable energy values of five unconventional feedstuffs fed to growing pigs
- 03/2018-06/2018: Assisted in an experiment on comparative energy digestibility of protein feed ingredients in crossbred barrows in different growing stages (*Sample analysis, Paper writing*)
- 03/2018-06/2018: Assisted in an experiment on effects of dietary particle size and fiber source on nutrient digestibility and short chain fatty acid production in cannulated growing pigs (*Animal trial*)
- 02/2018-03/2018: Assisted in an experiment on effect of Dandelion root extract on growth performance, immune function and bacterial community in weaned pigs (*Animal trial*)
- 12/2017-02/2018: Assisted in an experiment on net energy requirement of growing-finishing pigs using indirect calorimetry (*Sample analysis, Gas data analysis*)

## **Publications**

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- **Dong, W.**, Li, J., Li, Z., Zhang, S., Li, X., ... & Zhang, S. (2020). Physicochemical properties and energy content of yellow dent corn from different climatic origins fed to growing pigs. *Asian-Australasian Journal of Animal Sciences*, 33(11), 1787-1796.
- **Dong, W.**, Zhang, G., Li, Z., Liu, L., Zhang, S., & Li, D. (2020). Effects of different crude protein and dietary fiber levels on the comparative energy and nutrient utilization in sows and growing pigs. *Animals*, 2020, 10(3):495.
- **Dong, W.**, Wang, Q., Chen, J., Liu, L., & Zhang, S. (2019). Apparent total tract digestibility of nutrients and the digestible and metabolizable energy values of five unconventional feedstuffs fed to growing pigs. *Journal of Applied Animal Research*, 47(1), 273-279.
- **Dong, W.<sup>#</sup>**, Huang, C.<sup>#</sup>, Xie, F., Zhao, J., Li, Z., Li, Y., ... & Zhang, S. (2019). Comparative energy digestibility of protein feed ingredients in crossbred barrows in different growing stages. *Journal of Applied Animal Research*, 47(1), 176-182. (co-first author)
- **Dong, W.**, Wang, Q., Bao, H., Xie, Z., Zhu Z., ... & Zhang, S. (2021). Determination and Prediction of the Digestible Energy and Metabolizable Energy of Liquor-making Distiller Grains Fed to Growing Pigs. *Chinese Journal of Animal Science*, 57(1), 133-137 (in Chinese)
- **Dong, W.**, Zhang, G., Zhao, J., Chou, Y., ... & Liu, L. (2021). Evaluation of Available Energy and Amino Acid Digestibility of Wheat Stored in Different Years in Growing Pigs. *Chinese Journal of Animal Nutrition*. (Under review)
- Zhao, J., Zhang, G., **Dong, W.**, Zhang, Y., Wang, J., Liu, L., & Zhang, S. (2019). Effects of dietary particle size and fiber source on nutrient digestibility and short chain fatty acid production in cannulated growing pigs. *Animal Feed Science and Technology*, 114310.
- Li, E., Zhu, T., **Dong, W.**, & Huang, C. (2019). Effects of brown rice particle size on energy and nutrient digestibility in diets for young pigs and adult sows. *Animal Science Journal*, 90(1), 108-116.
- Zhao, J., Tang, S., Zhou, X., **Dong, W.**, Zhang, S., & Huang, C. (2018). Determination of chemical composition, energy content, and amino acid digestibility in different wheat cultivars fed to growing pigs. *Journal of Animal Science*, 97(2), 714-726.

## **Skills & Capacity**

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- Traditional husbandry work and veterinary skills: raising pigs; sampling feed, blood, feces, urine, digesta, and intestine; body measuring for weight and height; slaughter; injection
- Chemical analysis of feed: crude protein, crude fat, amino acids, fiber, calcium, phosphorus, chromium, starch
- Software: SAS, JMP, Photoshop, R, Origin
- English: TOEFL 93 (Reading 26 Listening 25 Speaking 21 Writing 21)

## **Honors & Awards**

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- Dean scholarship for Master Students, China Agricultural University, 2019 (Top 3 among 137 master students)
- National Scholarship for Master Students, Chinese Ministry of Education, 2019 (Top 5 among 137 master students)
- First Class Academic Scholarship, China Agricultural University, 2019 (Top 40 among 137 master students)
- Third Class Learning Scholarship, China Agricultural University, 2014 (Top 15 among 60 undergraduate students)

## **Additional**

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09/2020-present: Research Assistant, China Agricultural University (CAU)

09/2018-09/2019: Graduate student liaison with faculty, Ministry of Agriculture Feed Industry Centre (MAFIC)

09/2015-09/2016: Captain of the men's school basketball team, China Agricultural University (CAU, Yantai Campus)