

EDUCATION

Post-doc	2021 to now	Quantitative Genetics, University of California, Davis
Ph.D	2017 to 2021	Animal Biology, University of California, Davis
M.Sc.	2019 to 2020	Statistics, University of California, Davis
M.Sc.	2015 to 2017	Animal Nutrition and Feed Science, China Agricultural University, Beijing

RESEARCH

2021 to now Evaluation of genome conservation across multiple livestock species

2021 to now Genome wide association study and genomic prediction in White Leghorns using low-pass sequencing data

2021 to now Transcriptome annotation of 17 porcine tissues using Nanopore sequencing Technology

2020 to 2021 Optimizing sequencing resources in genotyped livestock populations using linear programming

2020 to 2021 A pitfall and the remedy for inferences of association based on genomic windows using Bayesian linear regression models

2019 to 2021 A mechanistic thermal balance model of dairy cattle

2017 to 2020 Ruminant farm systems model: ration formulation using nonlinear programming

2016 to 2017 Effects of antibiotics adding to milk replacer on the microbiota composition in preweaning calves

SOFTWARE & SKILLS

R programming language

Julia programming language

Python

High-performance computer

AWARDS & CONFERENCES

Lee Baldwin Family Award (2019, 2020)

National Scholarship (2012, 2014)

Plant & Animal Genome Conference 2022

The American Dairy Science Association (ADSA) annual meeting 2020

The 8th China Dairy Expo, Nanjing, 2017

TEACHING

2020 Teaching assistant ANS128 Agricultural Applications of Linear Programming

2019 Teaching assistant ANS128 Agricultural Applications of Linear Programming

2019 Teaching assistant ANS001 Domestic Animals and People

PUBLICATIONS

Li, J., Kebreab, E., You, F., Fadel, J.G., Hansen, T.L., VanKerkhove, C. and Reed, K.F., 2022. The application of nonlinear programming on ration formulation for dairy cattle. *Journal of Dairy Science*.

Cheng, H., Xu, K., Li, J. and Abraham, K.J., 2021. Optimizing sequencing resources in genotyped livestock populations using linear programming. *Frontiers in Genetics*, p.1923.

Li, J., Narayanan, V., Kebreab, E., Dikmen, S. and Fadel, J.G., 2021. A mechanistic thermal balance model of dairy cattle. *Biosystems Engineering*, 209, pp.256-270.

Li, J., Wang, Z., Fernando, R. and Cheng, H., 2021. Tests of association based on genomic windows can lead to spurious associations when using genotype panels with heterogeneous SNP densities. *Genetics Selection Evolution*. 53:1-6.

Li J., M.H. Yousif, Z.Q. Li, Z.H. Wu, S.L. Li, H.J. Yang, Y.J. Wang, and Z.J. Cao. 2019. Effects of antibiotic residues in milk on growth, ruminal fermentation, and microbial community of preweaning dairy calves. *Journal of Dairy Science*. 102:2298-2307.

Wang J., J. Li, F. Wang, J. Xiao, Y. Wang, H. Yang, S. Li, and Z. Cao. 2020. Heat stress on calves and heifers: a review. *Journal of Animal Science and Biotechnology*. 11:1-8.