

**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.