



Name: Alysia Vang

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Major Professor: Laura Hernandez; Department of Animal and Dairy Sciences

Degree Objective: Endocrinology and Reproductive Physiology, Fall 2019-present

Background: BS Genetics and Genomics, University of Wisconsin-Madison, May 2019

- Certificates: Global Health, Education and Education Services

Current Research Project:

My research focuses on bovine mammary gland development. Although the bovine mammary gland is an important focus area in bovine research, not many studies focus on mammary development in the period between weaning and the first gestation. Milk production is highly dependent on the development of the mammary epithelium, which occurs during this time. Because of this, longitudinal histological mammary gland analysis is needed to better understand growth and development, as well as the effects of environmental factors such as diet. My current study utilizes two different diets to create variation in growth and follows 200 calves from birth to the first calving, and 100 of those calves through the first lactation. This study will combine genomic information, mammary gland development, body biometric measurements, and growth curve parameters to predict reproductive and production performance of first lactation cows.

Honors:

Grants Received:

2019-2020 R25 Training, Education, And Mentoring in Science (TEAM-Science)

2020-present T32 Biotechnology Training Program

Publications:

National Presentations:

ADSA 2021 Virtual Annual Meeting , Histological and ultrasound analysis of Holstein calf mammary gland development, 2021, Virtual Poster Presentation

Other Presentations:

Teaching and Mentorship:

TA: AnSci/DySci 373: Animal Physiology; Spring 2021

ERP Service: