Priya Raman

Animal Geneticist

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SKILLS

Quantitative Genetics

Genomic Selection

BLUPF90 **GWAS**

SNP Genotyping

Selection Indexes

Mating Plans **R**

Python **Linux**

EDUCATION

Doctor of Philosophy (Ph.D.)

05/2017

Iowa State University

Ames, IA

Animal Breeding and Genetics

SUMMARY

Animal geneticist with 9 years in quantitative genetics for dairy cattle and swine breeding programs. Builds genomic selection pipelines in BLUPF90, R and Python, publishes genomic evaluations for 60,000 animals a month and advises breeding managers on selection indexes and mating plans.

EXPERIENCE

Animal Geneticist

01/2021 - Present

Northstar Bovine Genetics

DeForest, WI

Dairy sire and genomic testing company serving herds in 30 countries.

- Manage monthly genomic evaluations for **60,000+** Holstein and Jersey animals with single-step BLUPF90 on a Linux cluster.
- Developed a fertility and health selection index adopted for 4 sire lines, raising daughter pregnancy rate by 1.2 points.
- Lead GWAS and SNP genotyping projects with 2 university partners, adding 3 validated markers to the company panel.
- Supervise 3 geneticists and 2 data analysts and present evaluation results to sales and breeding staff each quarter.

Quantitative Geneticist

06/2017 - 12/2020

Cornbelt Swine Genetics

Des Moines, IA

Swine breeding company with nucleus herds in Iowa and Minnesota.

- Estimated genetic parameters for **14** growth, carcass and litter traits in a 30,000-sow nucleus population.
- Built R and Python scripts for data cleaning and pedigree checks, cutting evaluation turnaround from 5 days to 1.
- Designed mating plans that held inbreeding below 0.5% per generation across 3 maternal lines.