

Statistical Genetics

Home Department: Genetics

Faculty of AgriSciences

Description of focal area

Statistical genetics is the field of study where statistical methods are used to make inferences of genetic data. It is used in fields such as population quantitative genetics by for example plant breeders and conservation geneticists and in genetic epidemiology where the effects of genes on diseases are studied.

BDataSci			
Focal area: Statistical Genetics			
First year (128 credits)	Second year (128 credits)	Third year (128 credits)	Fourth year (124 credits)
Compulsory modules Computer Science 114(16), 144(16) Data Science 141(16) Mathematics 114(16), 144(16) Probability Theory and Statistics 114(16) Biology 124(16) Applied Mathematics 144(16)	Compulsory modules Data Science 241(16) Computer Science 214(16), 244(16) Mathematics 214(16) Mathematical Statistics 214(16), 245(8), 246(8) Genetics 214(16), 244(16)	Compulsory modules Mathematical Statistics 312(16) Computer Science 315(16), 343(16) Data Science 316(16), 346(16) Genetics 314(16), 315(16), 344(16)	Compulsory modules Introduction to Statistical Learning 441(12) Genetic data analysis 441(8) Bioinformatics 441(8) Scientific and proposal writing 441(8) Human and animal genetics 441(8) or Plant genetics and crop improvement 441(8) Genetics: Molecular Techniques 441(16) Genomics 441(8) Machine Learning 441(16) Data Science research in Statistical Genetics 471(40)