2022 SISG schedule

All modules will be held online. 2022 module descriptions will be posted early February 1. See Summer Institutes Archives for last year’s course descriptions (note module numbers may have changed).

July 11 – July 13

Module 1: Probability and Statistical Inference  
Instructors: Sarah Anoke; Zoe Moodie

Module 2: Introduction to Genetics and Genomics  
Instructors: Greg Gibson; Joseph Lachance

Module 3: Introduction to R  
Instructors: Ken Rice; Ting Ye

Module 4: Fundamentals of Population Genetics  
Instructors: Dahlia Nielsen; Nadia Singh

July 13 – July 15

Module 5: Regression Methods: Concepts & Applications  
Instructors: Rebecca Hubbard; Xu Shi

Module 6: Gene Expression Profiling  
Instructors: Greg Gibson; Peng Qiu

Module 7: Applications of Population Genetics  
Instructors: Ryan Hernandez; Timothy O'Connor

July 18 - July 20

Module 8: Statistical Genetics  
Instructors: Jérôme Goudet; Bruce Weir

Module 9: Quantitative Genetics  
Instructors: Guilherme Rosa; Bruce Walsh

Module 10: MCMC for Genetics  
Instructors: Eric Anderson; Matthew Stephens

July 20 – July 22

Module 11: Genetic Epidemiology  
Instructors: Alison Fohner; Sara Lindstroem
Module 12: Mixed Models in Quantitative Genetics
Instructors: Guilherme Rosa; Bruce Walsh

Module 13: Bayesian Statistics for Genetics
Instructors: Ken Rice; Jonathan Wakefield

Module 14: Advanced Quantitative Genetics *Use description from 2019*
Instructors: Loic Yengo; Peter Visscher

**July 25 – July 27**

Module 15: Association Mapping: GWAS and Sequencing Data
Instructors: Joelle Mbachou; Loic Yengo

Module 16: Pathway & Network Analysis for Omics Data
Instructors: Alison Motsinger-Reif; Ali Shojaie

**July 27 – July 29**

Module 17: Computational Pipeline for WGS Data
Instructors: Matthew Conomos; Ken Rice; Laura Raffield

Module 18: Multivariate Analysis for Genetic Data
Instructors: Jan Graffelman

Module 19: Forensic Genetics
Instructors: Sanne Aalbers; Bruce Weir