Advanced Gene Mapping Course
May 22-26, 2023
The Rockefeller University
New York, NY

Emphasis: Analysis of sequence and other omics data. This course will cover both theory and applied exercises. Computer exercises will be carried out using a variety of programs (CASSI, FaST-LMM,LDpred2, LDSC, MRBase, PLINK, R, REGENIE, SuSiE, etc).

Topics: Complex trait rare variant association studies, whole genome association studies (including sequence data), qualitative and quantitative traits, data quality control, functional annotation, detection of interactions, Transcriptome-wide association studies (TWAS), detection of pleiotropy, mediation analysis, Mendelian randomization, polygenic risk scores, fine mapping, heritability estimation, meta analysis, controlling for population admixture/substructure, detecting gene x gene interactions, and sample-size and power estimation.

Course Academic Fee: 100 USD.   **Travel stipends are available**

Instructors: Heather Cordell (University of Newcastle), Andrew DeWan (Yale University), Suzanne Leal (Rockefeller University & Columbia University), Shamil Sunyaev (Harvard University) & Gao Wang (Columbia University)

For additional information, course schedule and application form visit the course websites:
https://statgen.us/Advgenemap2023