

## MATHEMATICS CHALLENGES IN GENOME-WIDE ASSOCIATION STUDIES

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Genome-wide association studies (GWAS) is a field of studies with the goal of identifying genomic regions associated with development of human diseases. GWAS typically focus on the analysis of associations between the trait of interest and a large number of genetic markers dispersed evenly throughout the genome.

This presentation is dedicated to relevant problems in the GWAS field, as well as directions for developing more accurate GWAS models.