Simulated Power: AMKAT vs. Comparison Methods
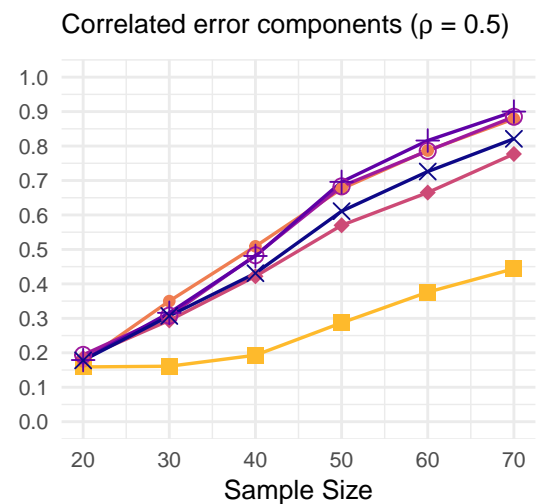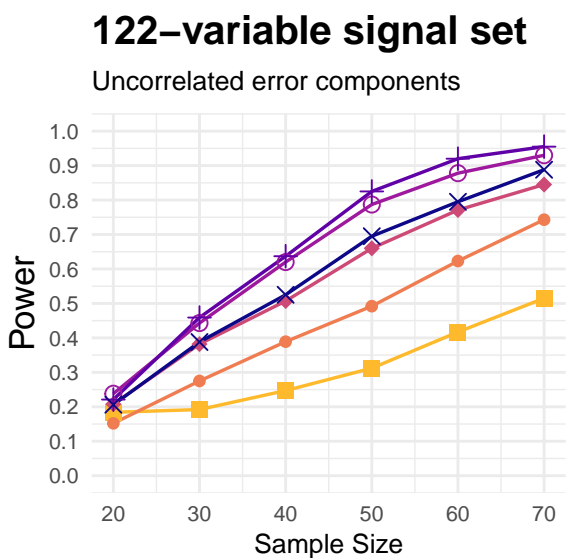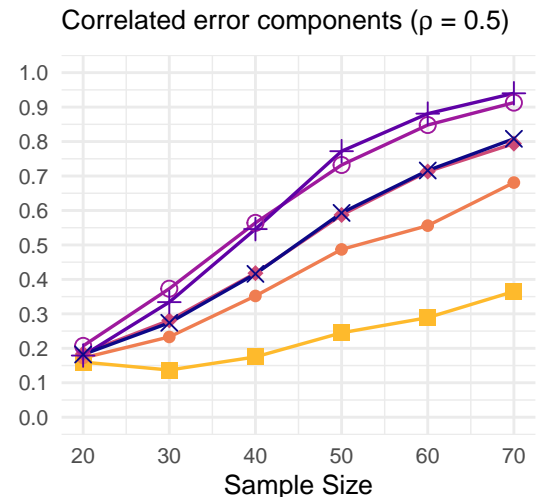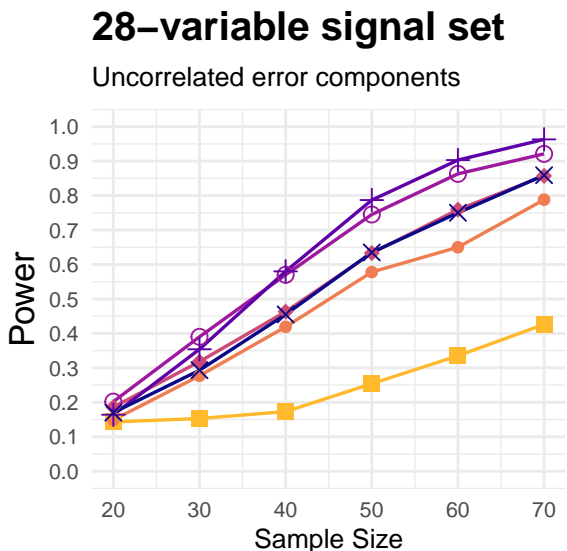
Simulated SNP set (p = 567) with strongly−correlated signal variables
Each value based on 1000 simulated data replicates; AMKAT P−values estimated using 1000 permutations

28−variable signal set

Uncorrelated error components

Correlated error components (ρ = 0.5)

122−variable signal set

Uncorrelated error components

Correlated error components (ρ = 0.5)

Legend:
- OMGA
- DKAT
- DKAT with Linear Phenotype Kernel
- AMKAT (no filter)
- AMKAT (PhiMr filter) with 64 test stats
- AMKAT (PhiMr filter) with 128 test stats

Axis labels: Power (y-axis), Sample Size (x-axis)