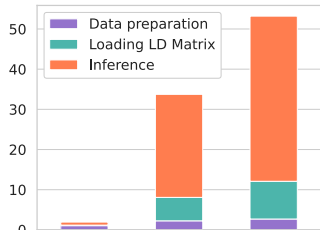
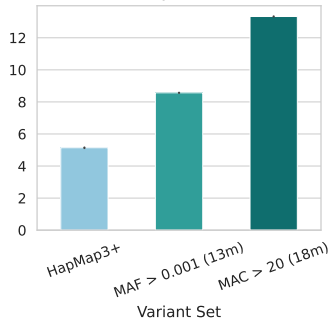


(a) Wallclock Time (minutes)**(b) Peak Memory (GB)****(c) Out-of-sample prediction accuracy (HapMap3+ vs. 18m variants)**