Title: Two recent results in quantum computing

Abstract: I'll discuss two recent results in quantum computing: (i) efficient classical simulation of noisy quantum circuits and (ii) observable partitioning to minimize measurement complexity. The first is work-in-progress and the second is contained in [arxiv.org/abs/2312.11840](https://arxiv.org/abs/2312.11840). I'll also overview recent activities to strengthen MSU-Q ([msuq.natsci.msu.edu/](https://msuq.natsci.msu.edu/)) and present opportunities for collaboration in quantum computing.