ADAPT QAOA 2L **QAOA** 0.6 0.6 Mean(Grad) Mean(Grad) 0.5 0.4 0.5 0.3 0.4 0.2 0.1 0.3 0.0 5 15 20 3 9 12 15 10 6 Layers Layers **ADAPT VQE 2L** VQE Mean(Grad) Mean(Grad) 0.20 0.60 0.57 0.15 0.54 0.10 0.51 0.05 0.48 1.5 2.0 2.5 3.0 1.0 0 100 200 300 400 Layers Layers