Performance Comparison of FAPL, FGPL and centralised PCA with optimal hyperparameters 1.0 1e7 Synthetic Mnist Cifar10 1e9 → FAPL → FAPL → FAPL **→** FGPL **→** FGPL **→** FGPL ··• centralised PCA ··• centralised PCA ··• centralised PCA \$00000 2.5 0.8 0.6 -2.0 -600000 1.5 400000 1.0 200000 0.2 0.5 0.0 0.0 10 30 40 50 10 20 30 40 50 20 60 80 100 20 40 Global rounds Global rounds Global rounds