mimic GMM (init set=50:50-(500, 2)); init val==X test,arrival set=500,test set=400;n rp=5;seed=10 (n cp= $\overline{2}$ , diag; gs= $\overline{F}$ ; std= $\overline{F}$  ctr= $\overline{F}$ ; KJL= $\overline{F}$ , c= $\overline{F}$ ; ms= $\overline{T}$ ) 10 **Batch** Batch 0.006 Training time (s) Testing time (s) Online Online 8 0.004 6 0.002 4 0.000 2.5 5.0 7.5 2.5 5.0 7.5 0.0 10.0 0.0 10.0 1.00 2.10 n\_components 2.05 0.75 2.00 0.50 1.95 Batch **Batch** 0.25 Online Online 1.90 0.00 0.0 2.5 5.0 7.5 2.5 5.0 7.5 10.0 10.0 0.0 X-axis:(The ith batch: i \* batch size(50) datapoints)

AUCs