Fixed U size on mimic GMM (init set=100:0-(500, 2)); init val(test)=400,arrival set=500,test set=400;n rp=1;seed=10 n cp=35, diag; gs=T; std=F c=F; KJL=T, n=100, d=10, q=0.5, c=F; ms=T 0.025 10.0 Batch **B**atch Training time (s) Testing time (s) Online Online 0.020 7.5 0.015 5.0 0.010 2.5 0.005 0.0 2.5 5.0 7.5 5.0 7.5 0.0 10.0 0.0 2.5 10.0 1.00 30 J_components 0.75 AUCs 20 0.50 **Batch** 10 **Batch** 0.25 Online Online 0.00 2.5 5.0 7.5 2.5 5.0 7.5 0.0 10.0 0.0 10.0 X-axis:(The ith batch: i * batch size(50) datapoints)