

Better group $\mathcal{D}^{(l)}$ — KDE for better group $p(x|\mathcal{D}^{(l)})$ — Acquisition function $r(x|\mathcal{D})$ Worse group $\mathcal{D}^{(g)}$ — KDE for worse group $p(x|\mathcal{D}^{(g)})$ A Samples $\mathcal{S} = \{x_s\}$