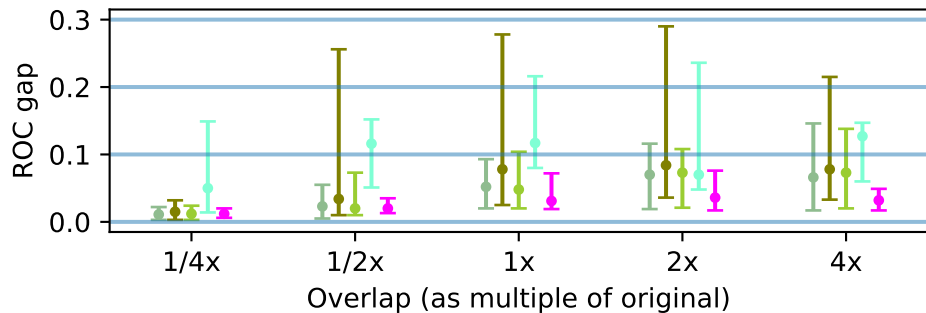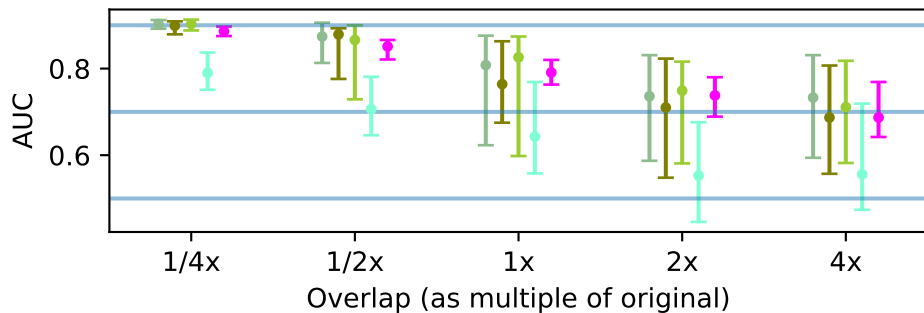Sensitivity analysis of causal effect estimators vs. DCEM under varying levels of overlap violations, $q_y = 0.5, q_t = 2, k = 1$

**Bias mitigation** ↓

ROC gap

Overlap (as multiple of original)

**Discriminative performance** ↑

AUC

Overlap (as multiple of original)

Models

- Tested-only
- (NEW) Tested-only + group
- (NEW) Reweighted tested-only
- (NEW) Doubly-robust CATE estimator
- DCEM (ours)