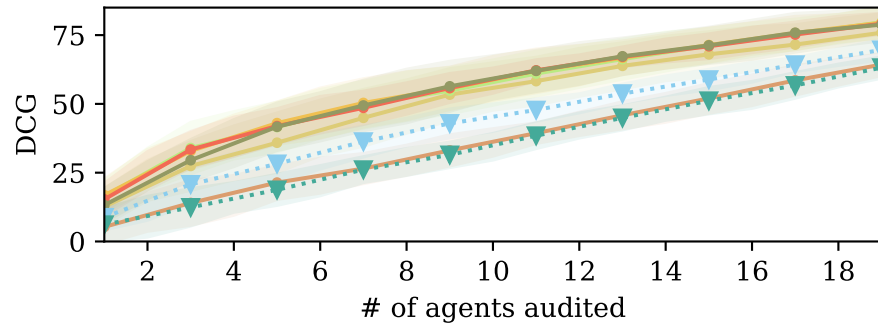
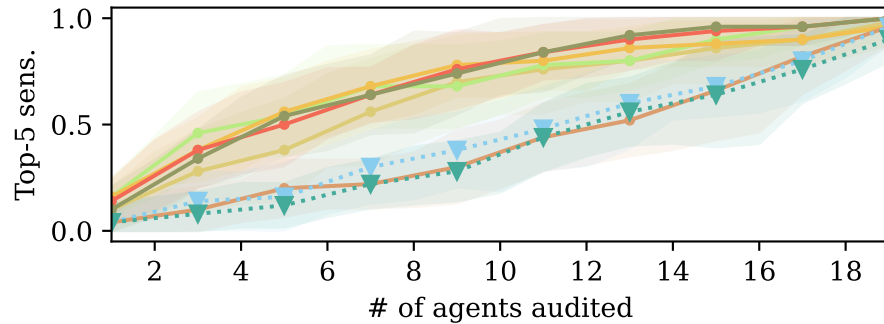


# Ranking performance across auditing thresholds

Top-5 sensitivity (  $\uparrow$  )

Discounted cumulative gain (DCG,  $\uparrow$  )



Causal effect estimator

S-learner    DragonNet    T-learner    R-learner    S+IPW    PSM    Random    Payout-only