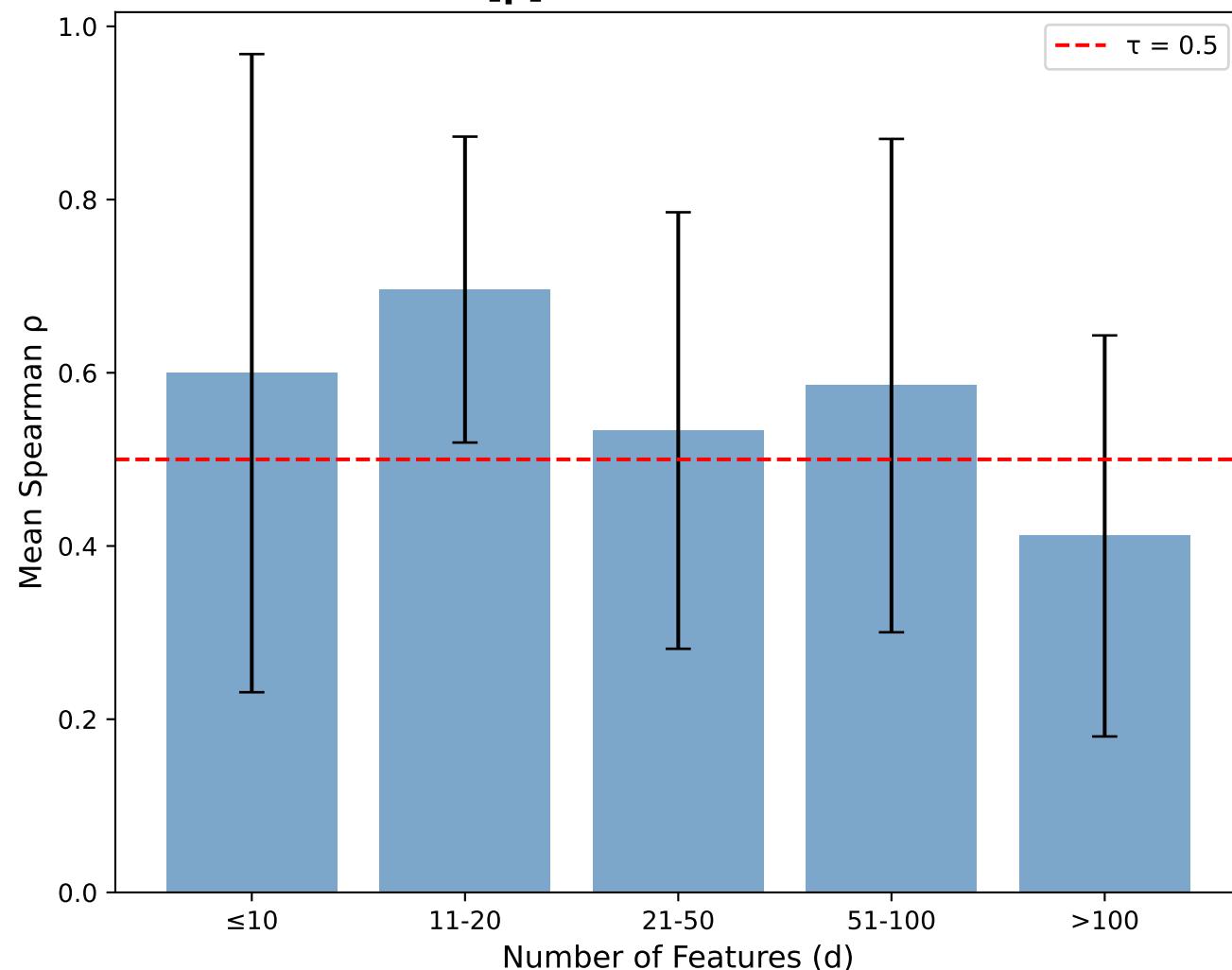
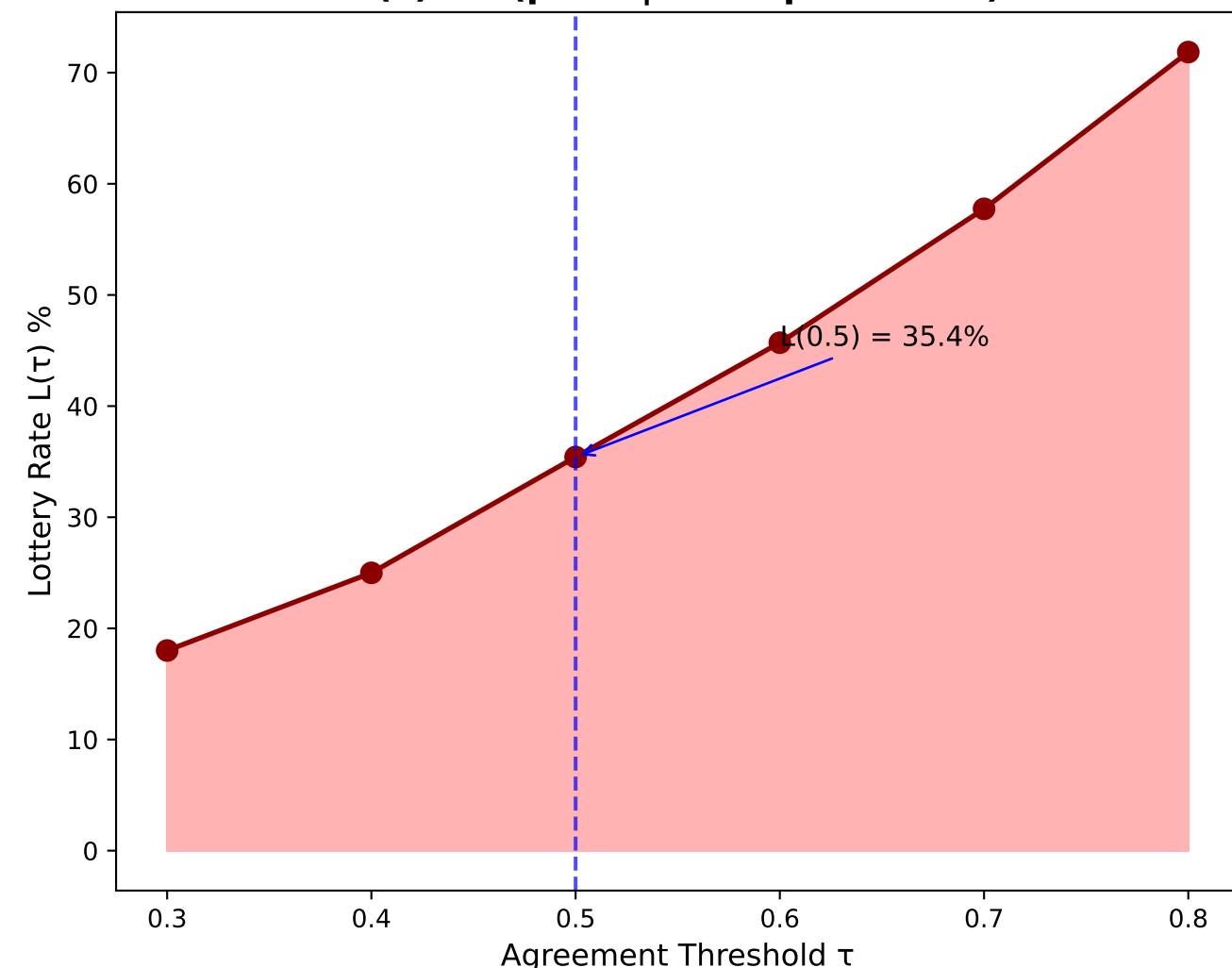


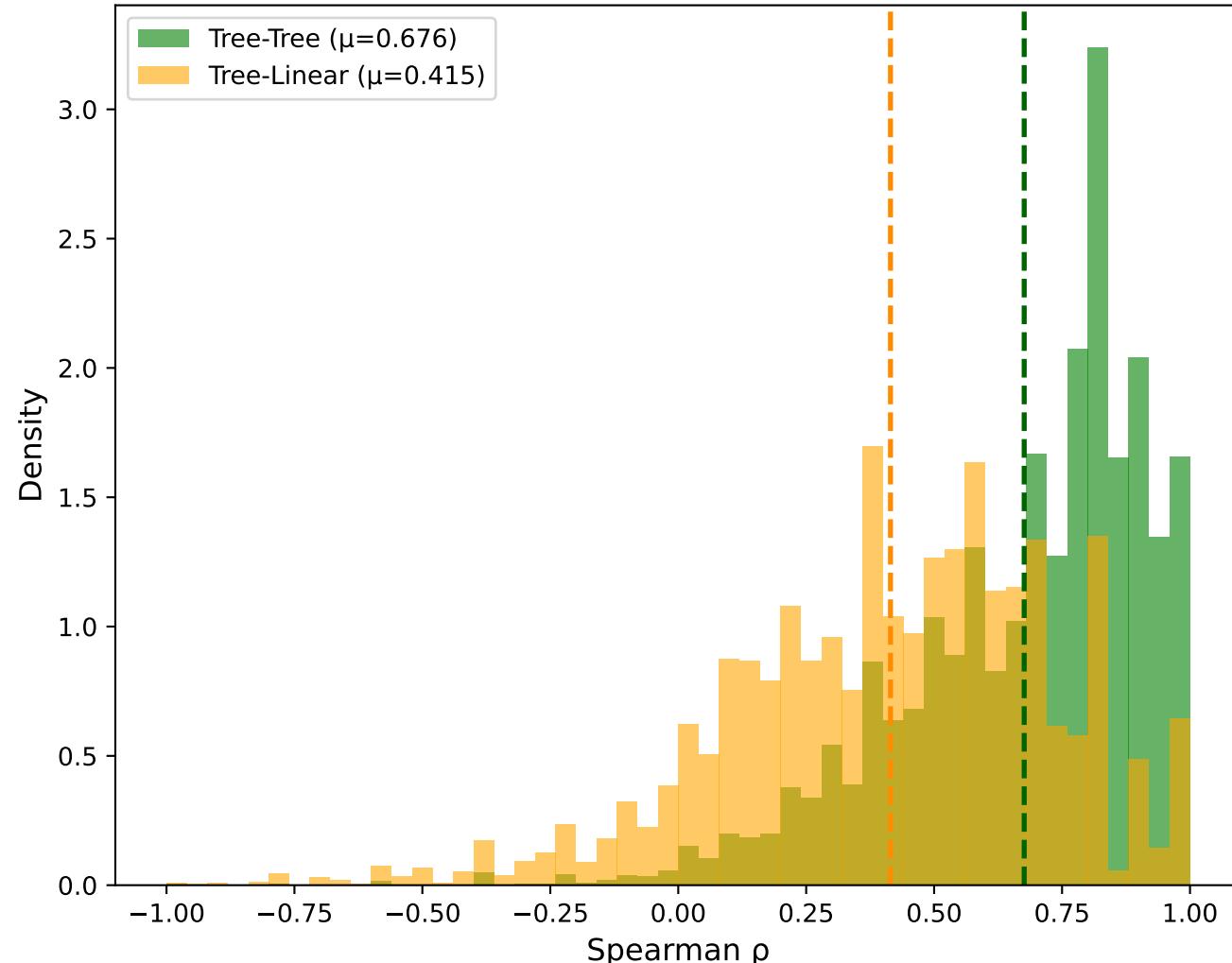
Theorem 1: Dimensionality Bound
 $E[\rho]$ decreases with d



Theorem 2: Lottery Rate Function
 $L(\tau) = P(\rho < \tau | \text{same prediction})$



Theorem 3: Impossibility Result
Cross-class gap $\Delta\rho = 0.26$, $d = 0.92$



Theorem 5: Reliability Distribution
Coverage guarantee for filtered instances

