Distribution of S^{α} with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{fold} = 5, N_{RMSE} = 50$
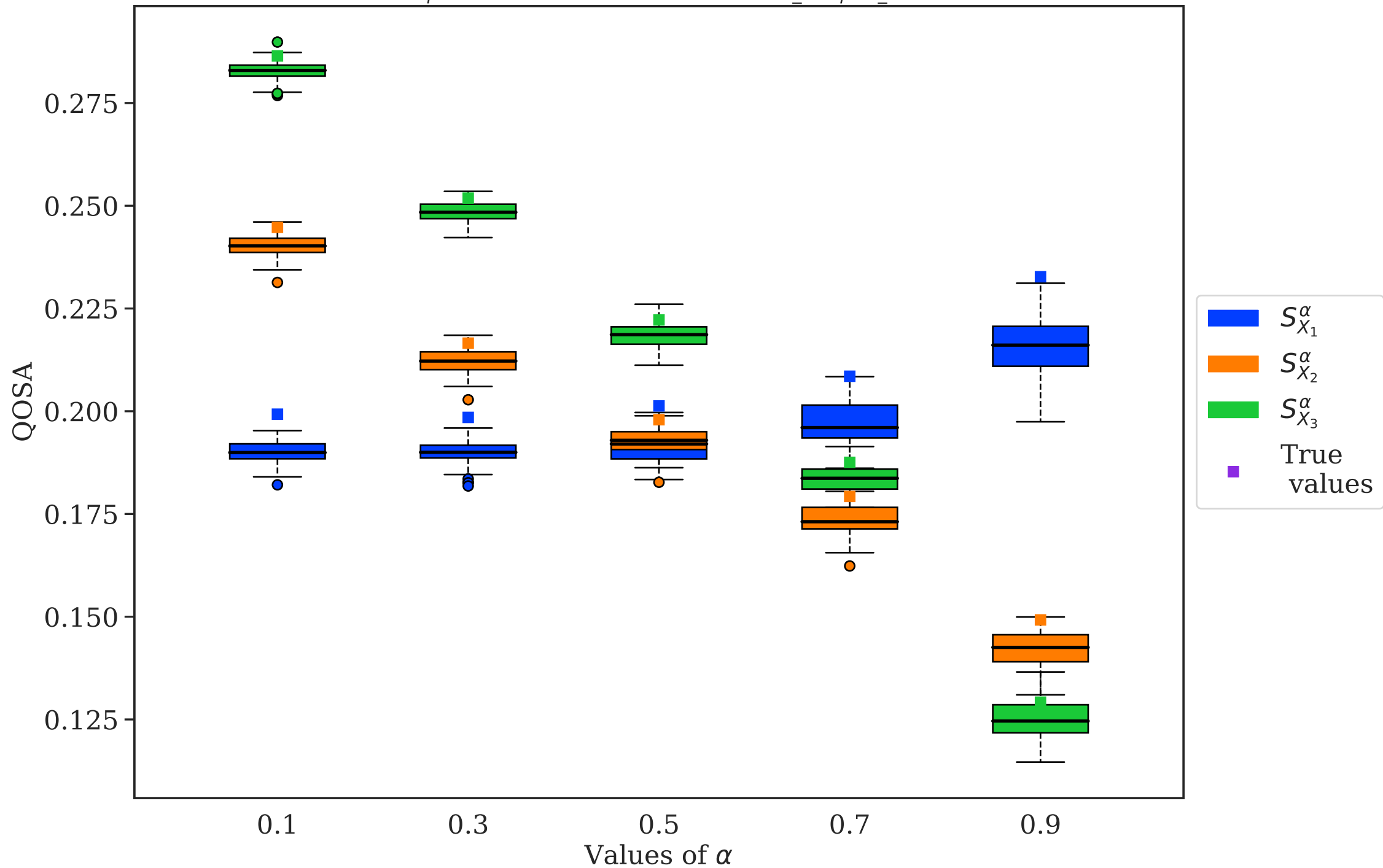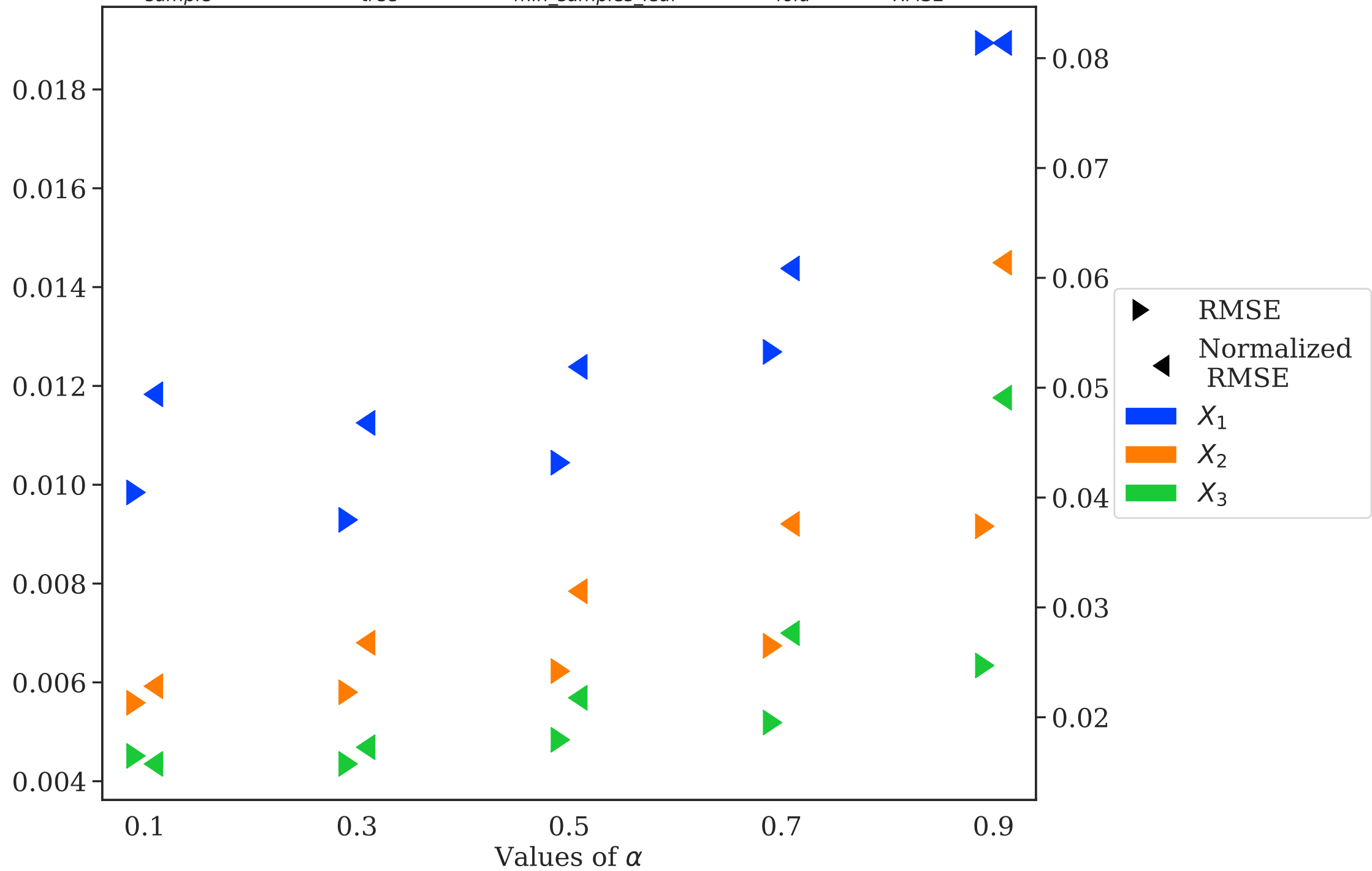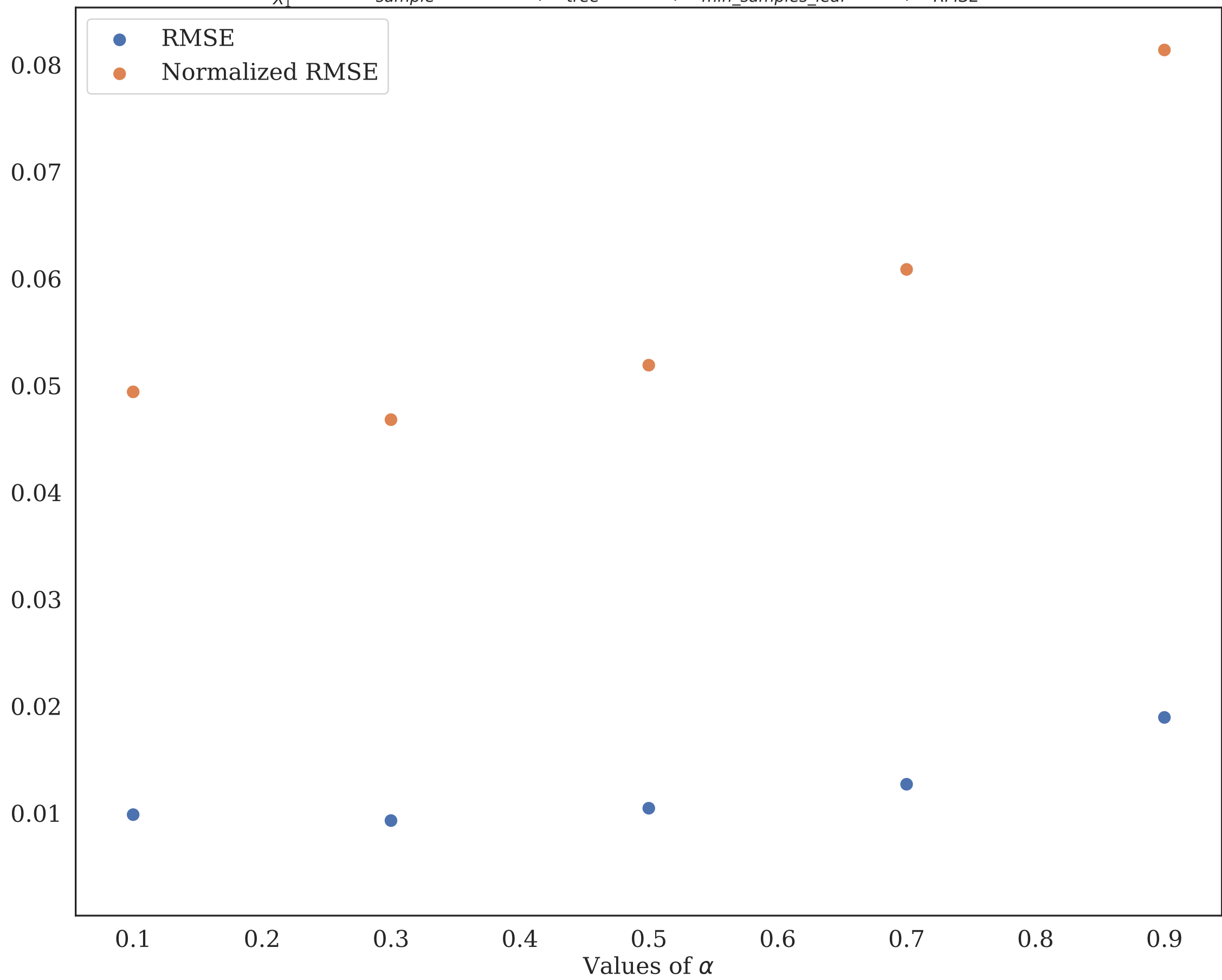
Legend:
- $S^{\alpha}_{X_1}$ (blue)
- $S^{\alpha}_{X_2}$ (orange)
- $S^{\alpha}_{X_3}$ (green)
- True values

QOSA (y-axis)

Values of α (x-axis): 0.1, 0.3, 0.5, 0.7, 0.9

$N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{fold} = 5, N_{RMSE} = 50$

RMSE

Normalized RMSE

X_1

X_2

X_3

Values of α

$S^{\alpha}_{X_1}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$
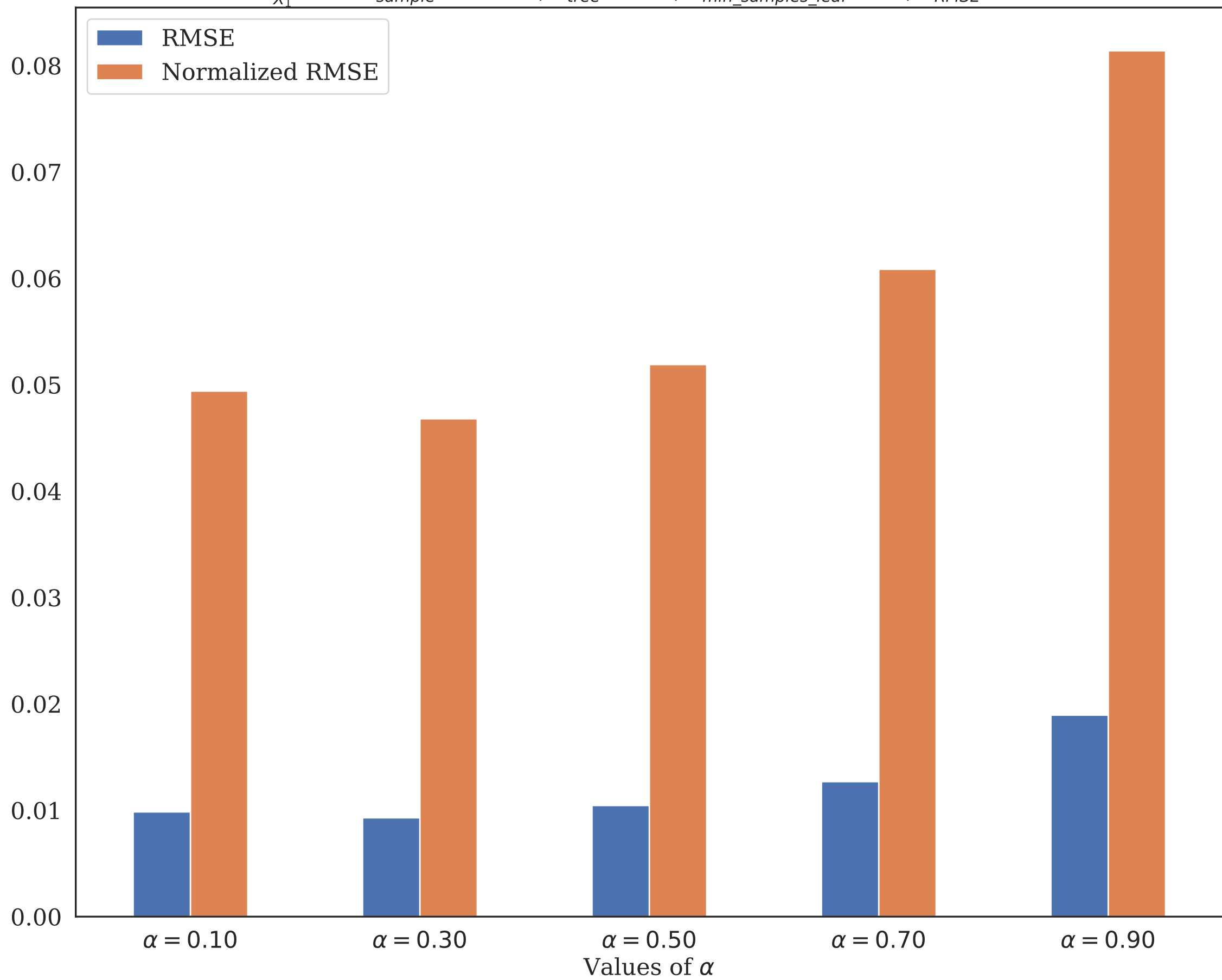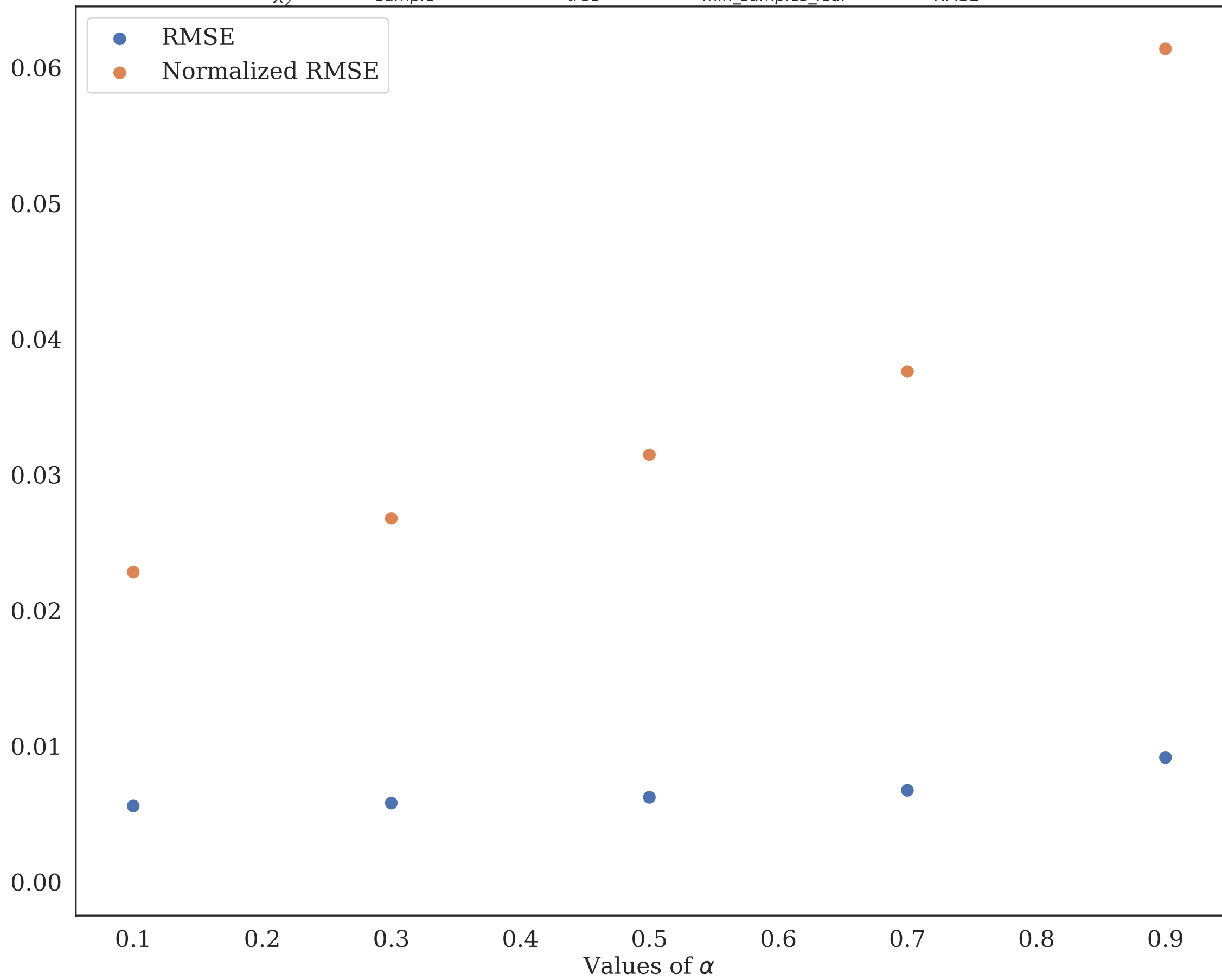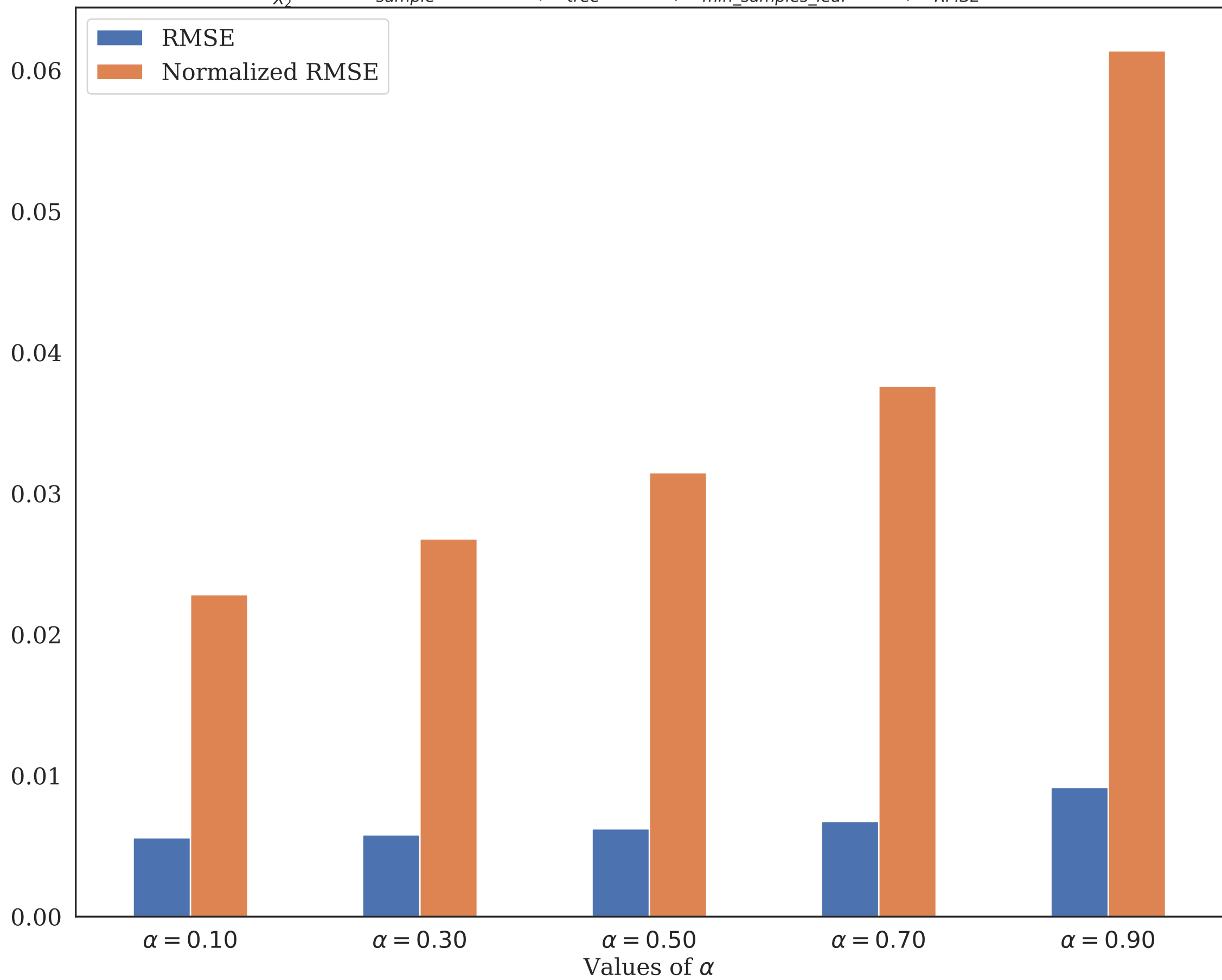
Figure: $S_{X_1}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$
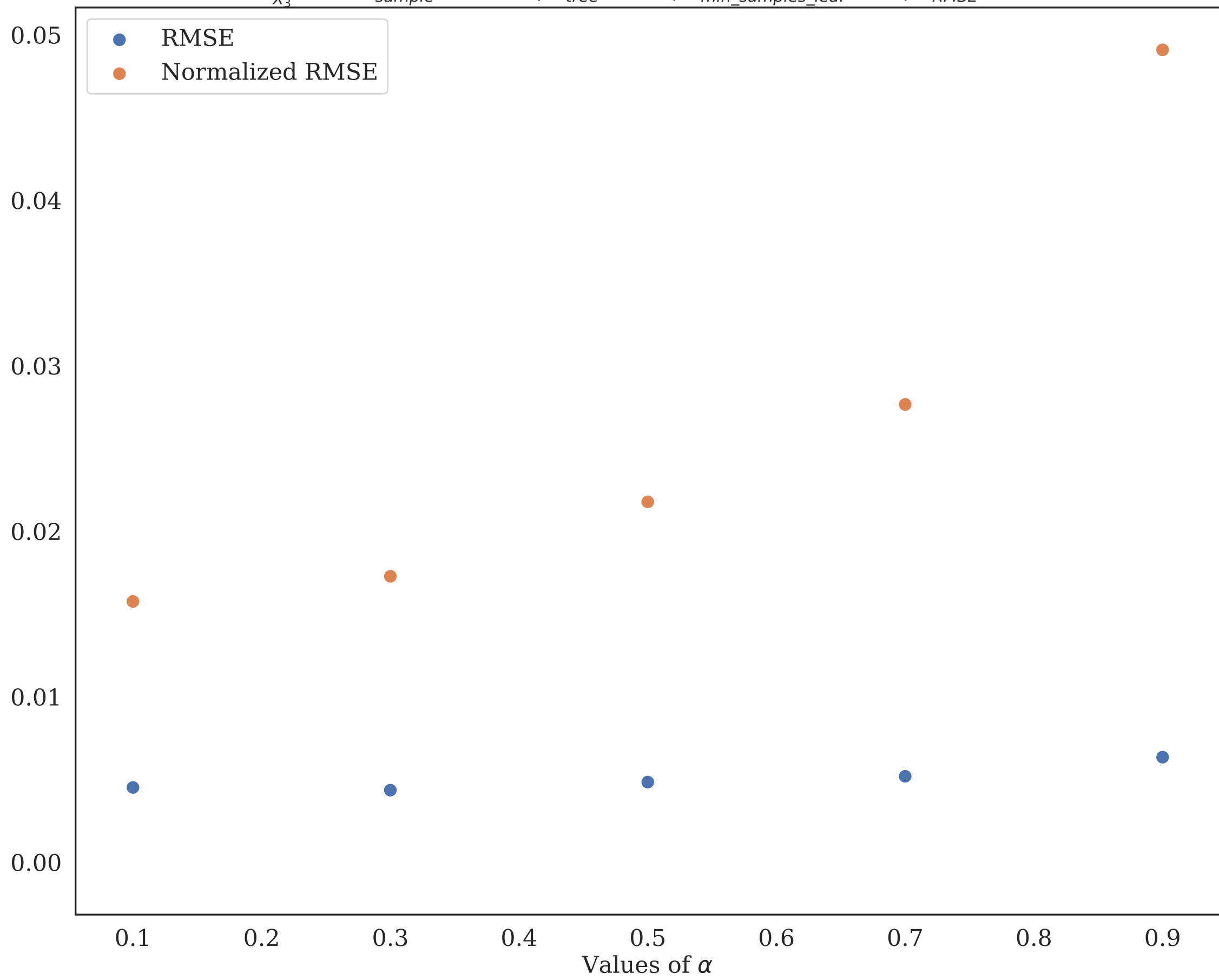
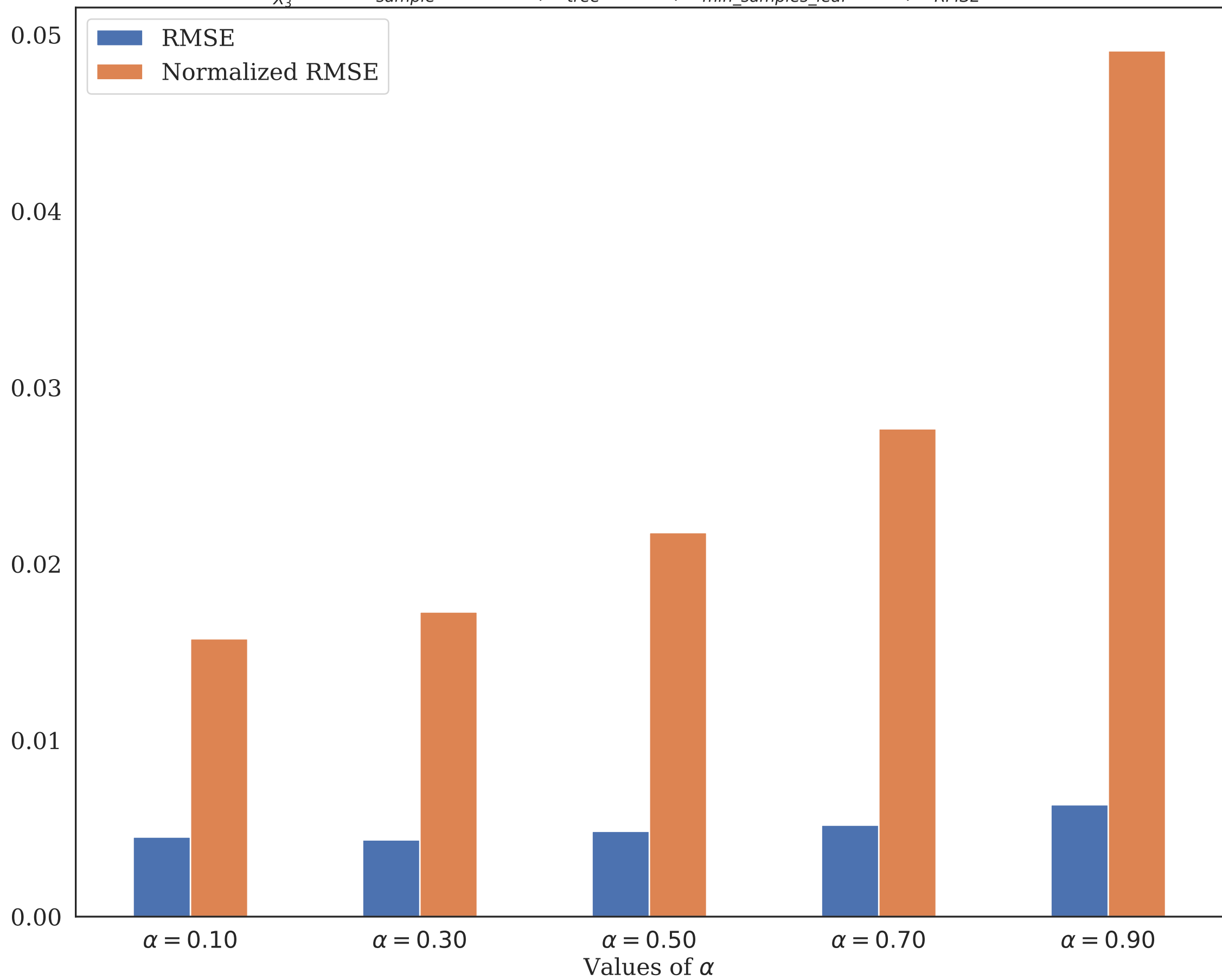$S_{X_2}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

$S_{X_2}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

$S_{X_3}^{\alpha}$ with $N_{sample} = 30000$, $N_{tree} = 150$, $N_{min\_samples\_leaf} = 30$, $N_{RMSE} = 50$
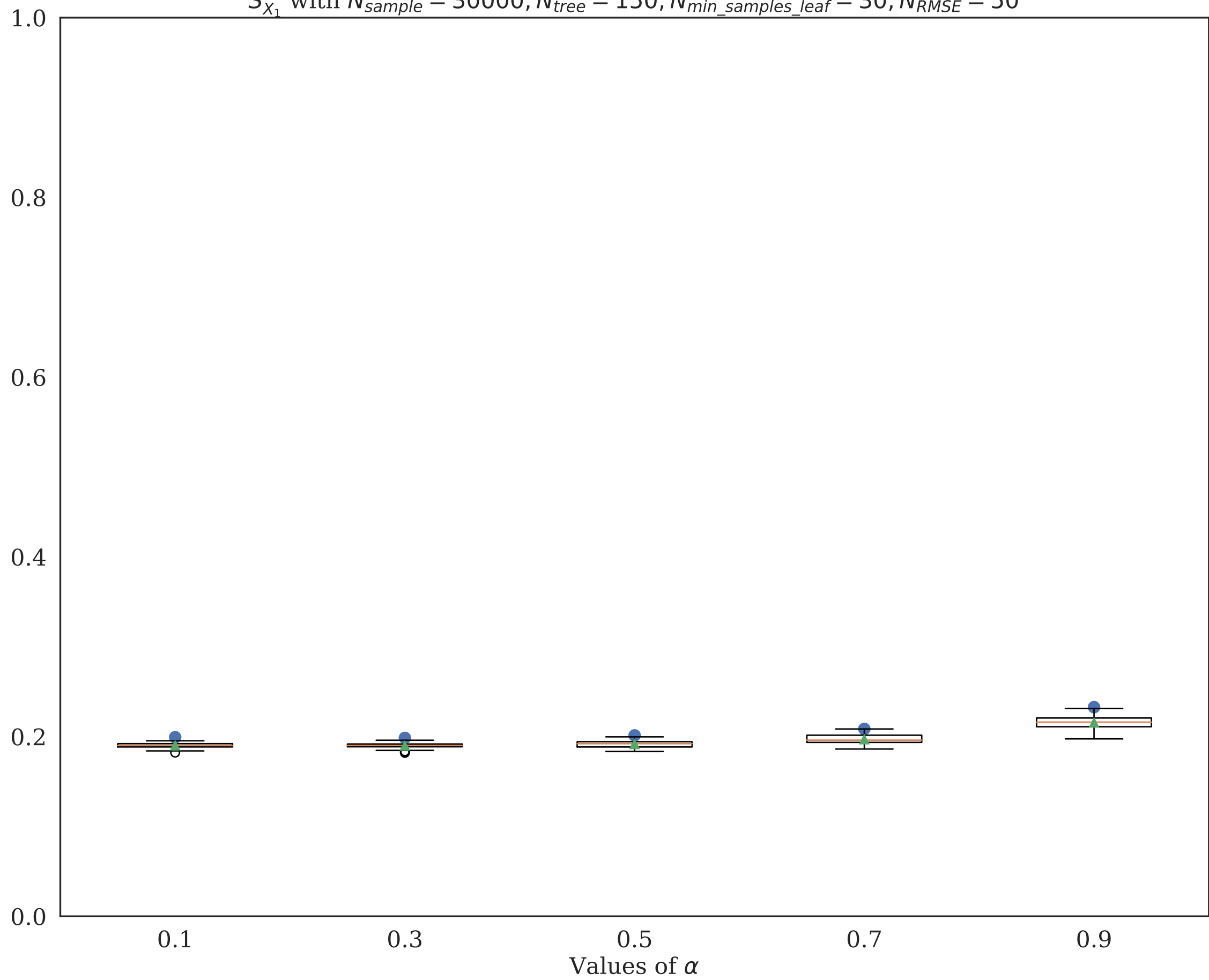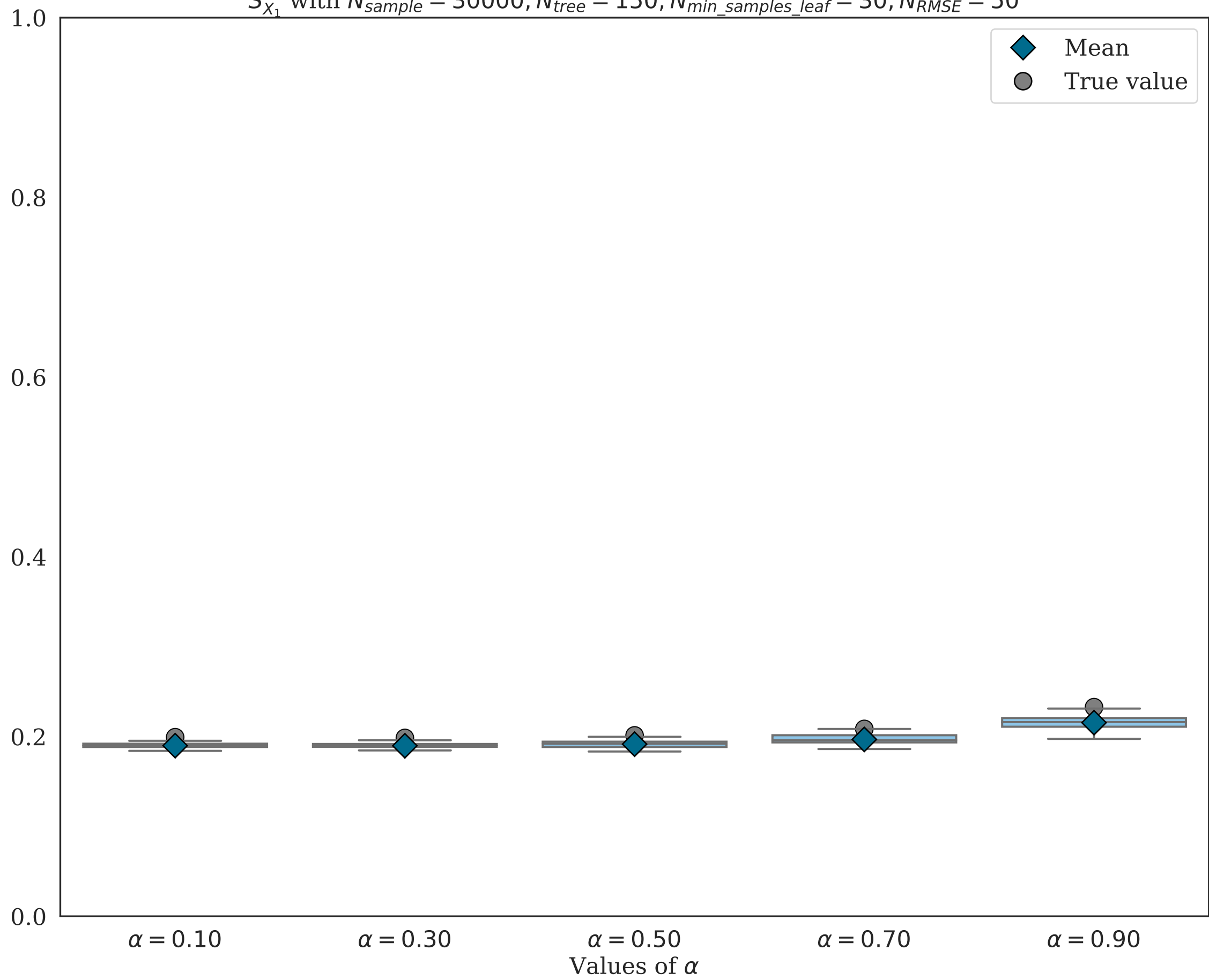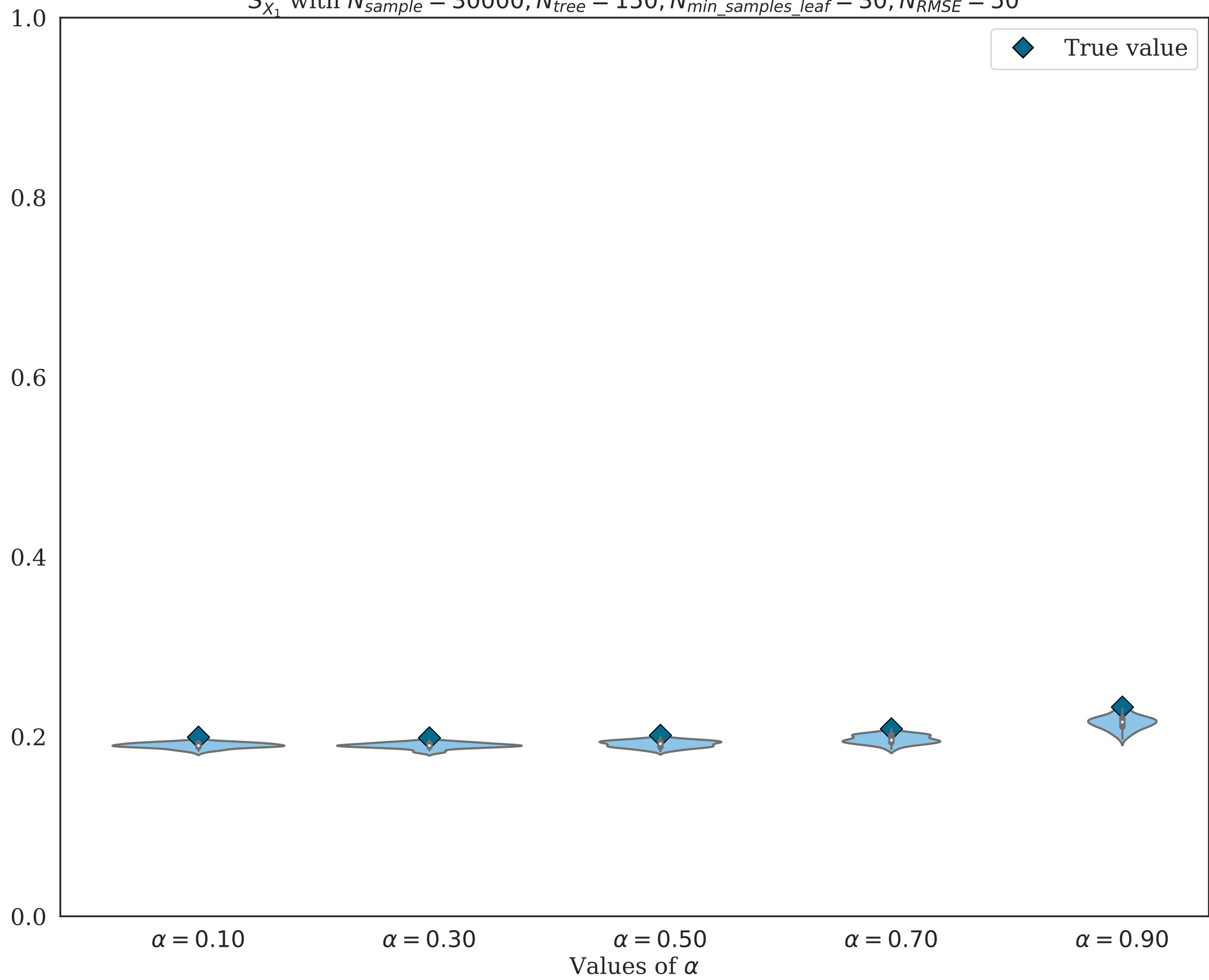
Figure: $S_{X_3}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

$S_{X_1}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

$S_{X_1}^{\alpha}$ with $N_{sample} = 30000$, $N_{tree} = 150$, $N_{min\_samples\_leaf} = 30$, $N_{RMSE} = 50$
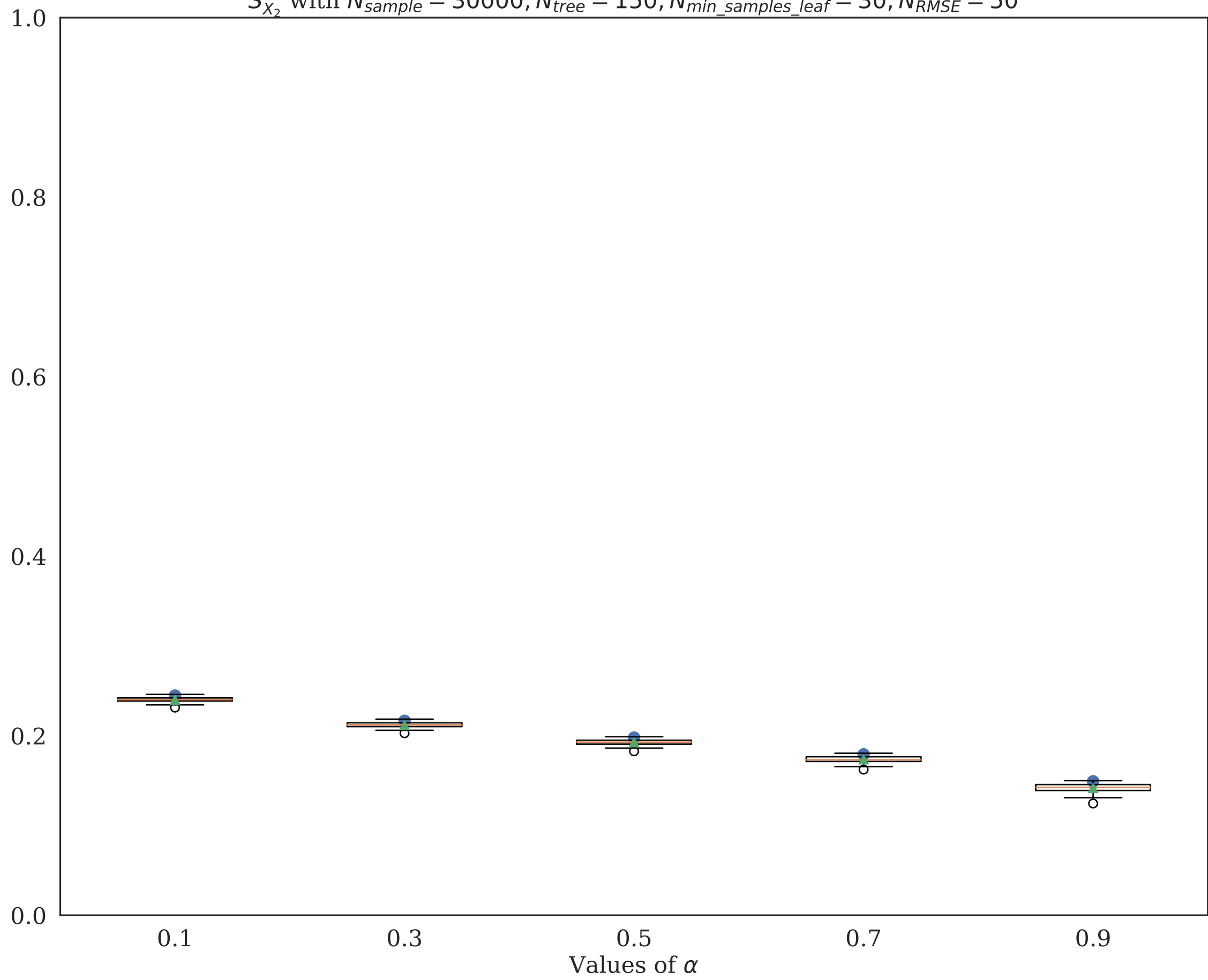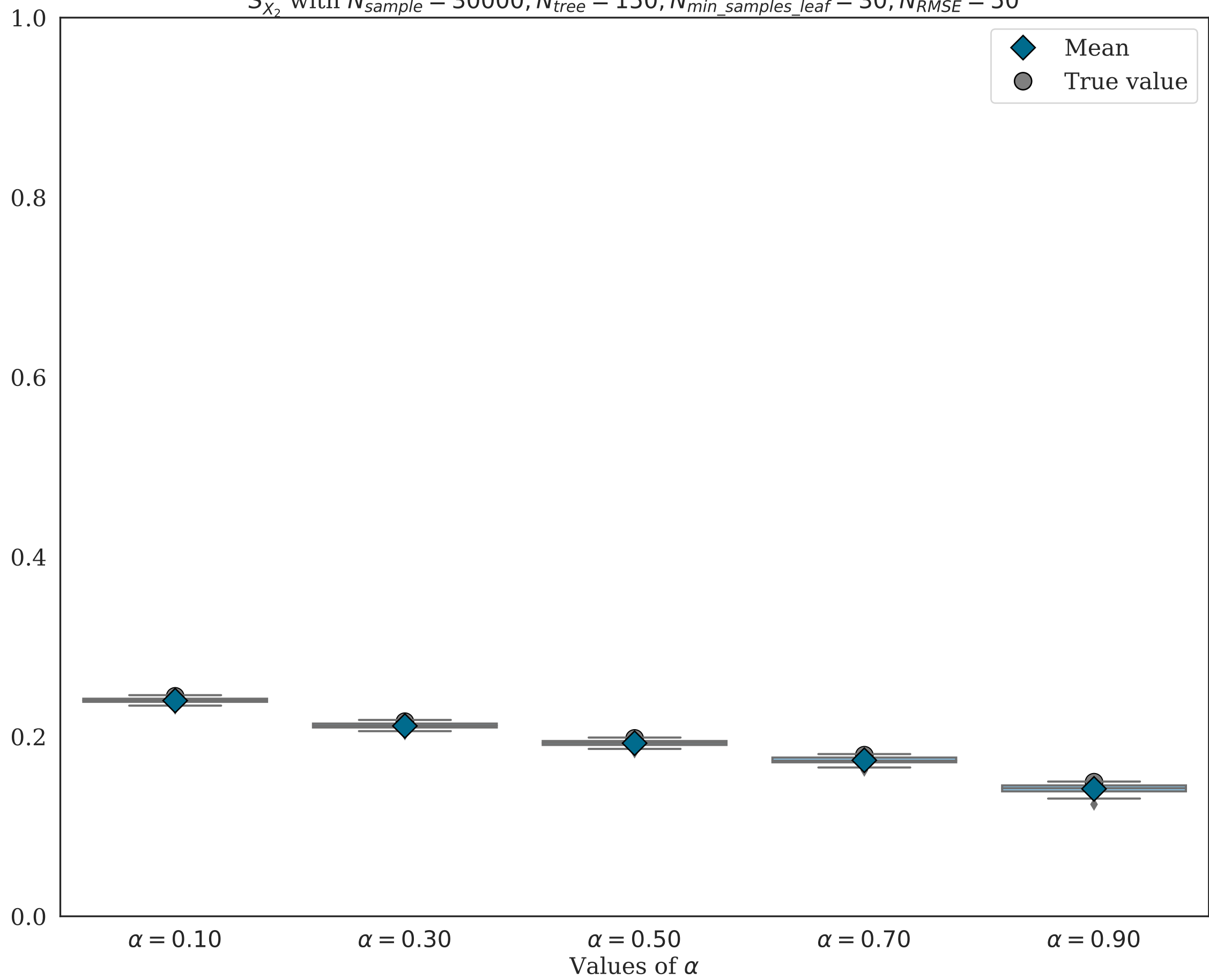
$S_{X_1}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

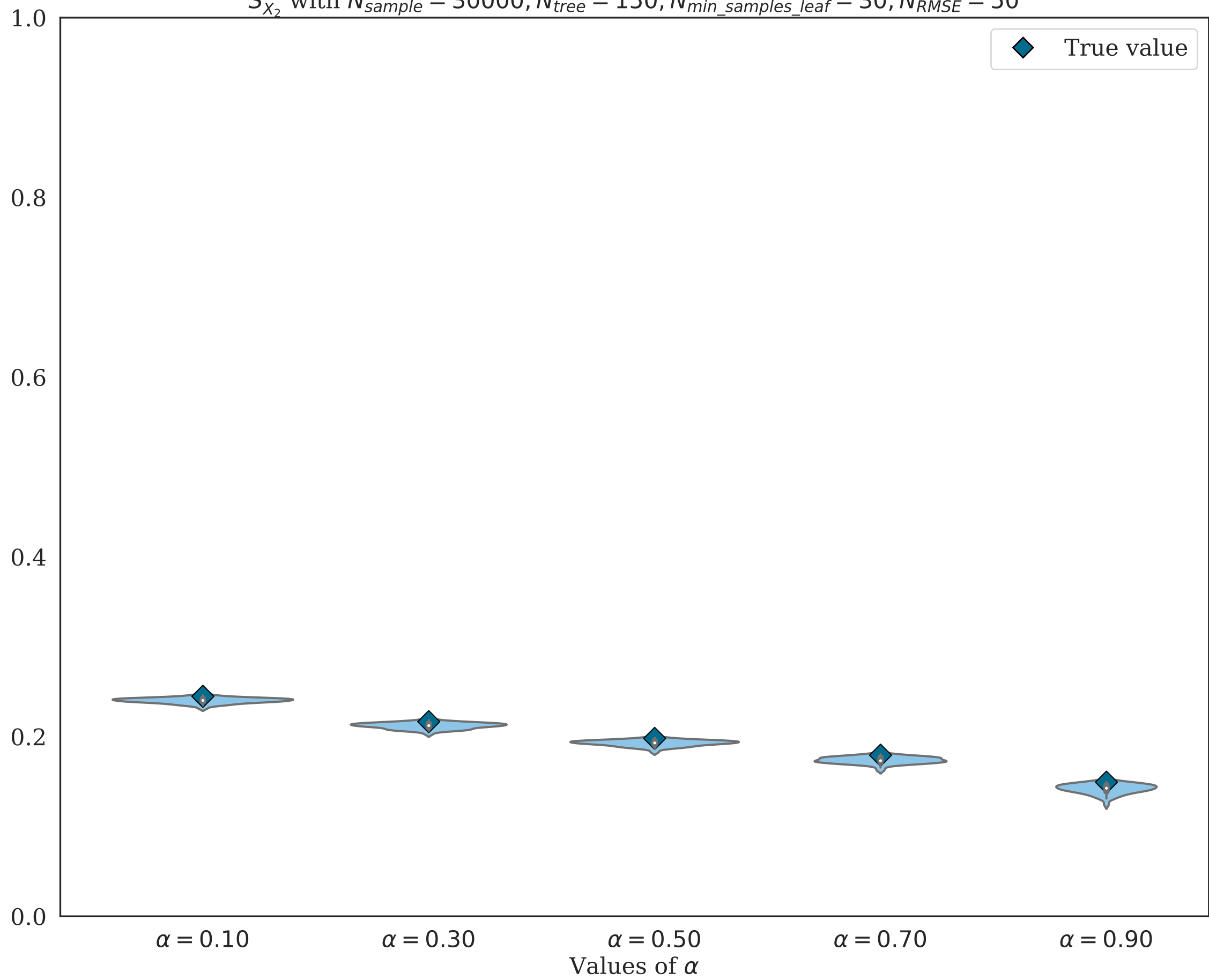$S_{X_2}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$
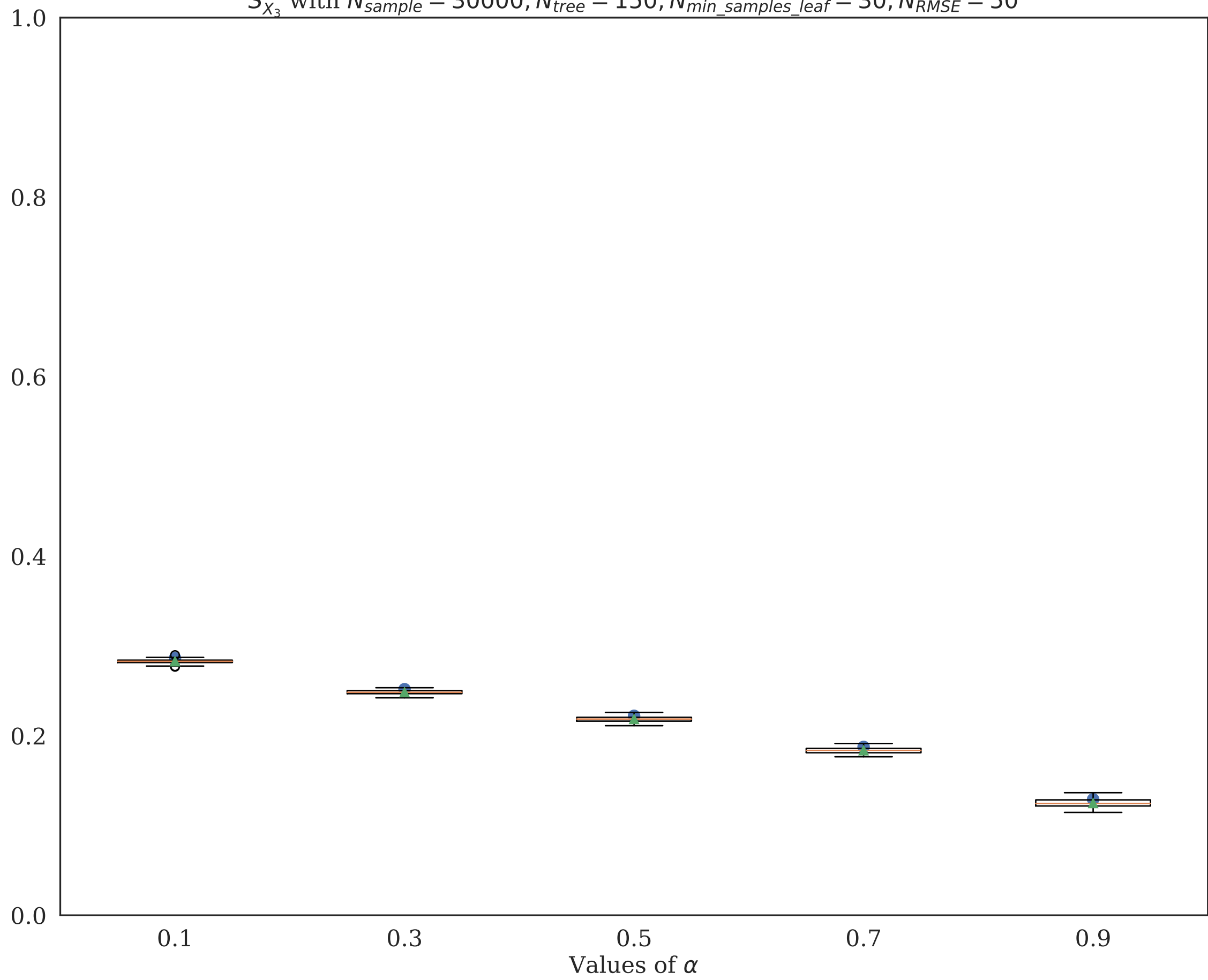
$S_{X_2}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

$S_{X_2}^\alpha$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

$S_{X_3}^{\alpha}$ with $N_{sample} = 30000$, $N_{tree} = 150$, $N_{min\_samples\_leaf} = 30$, $N_{RMSE} = 50$
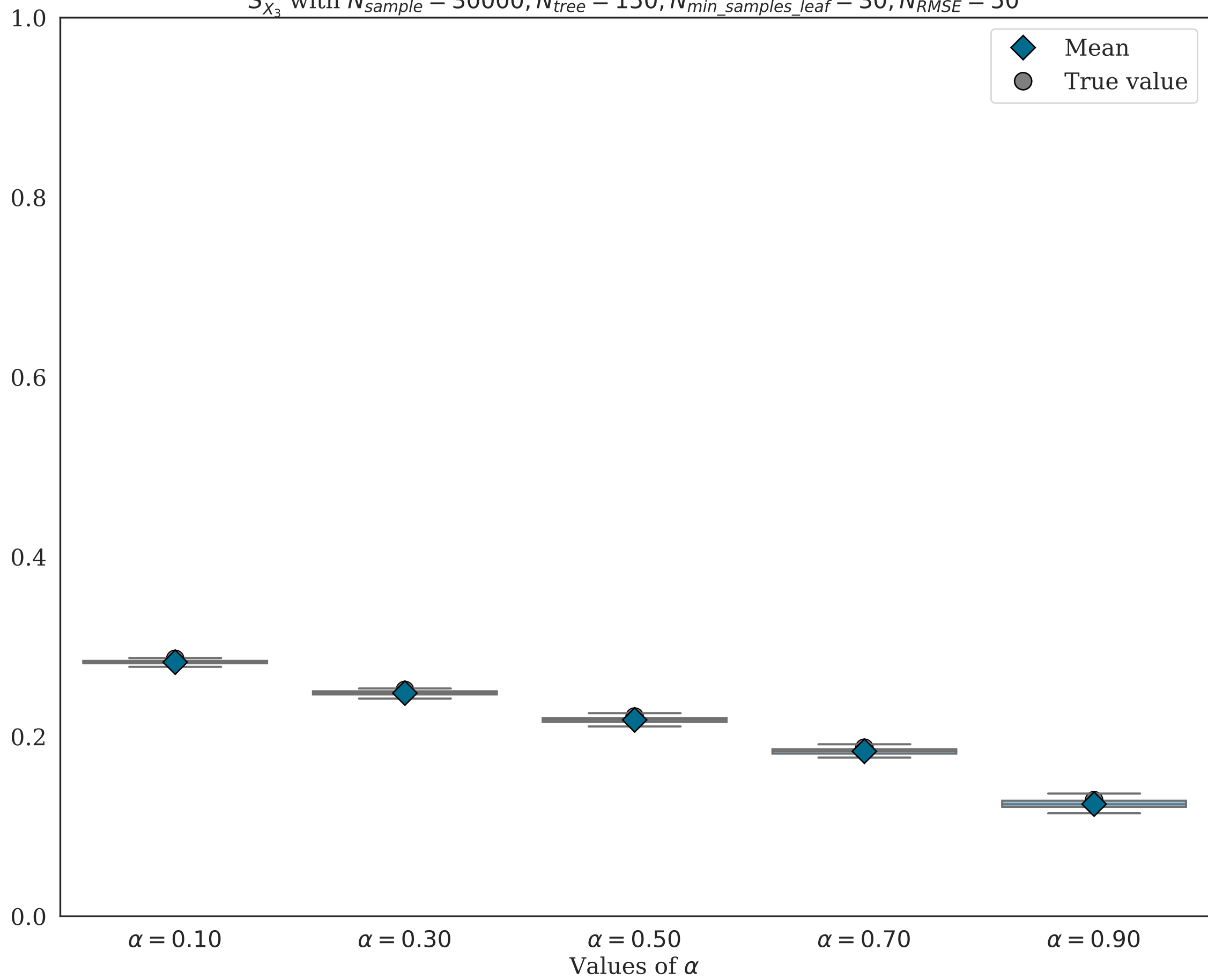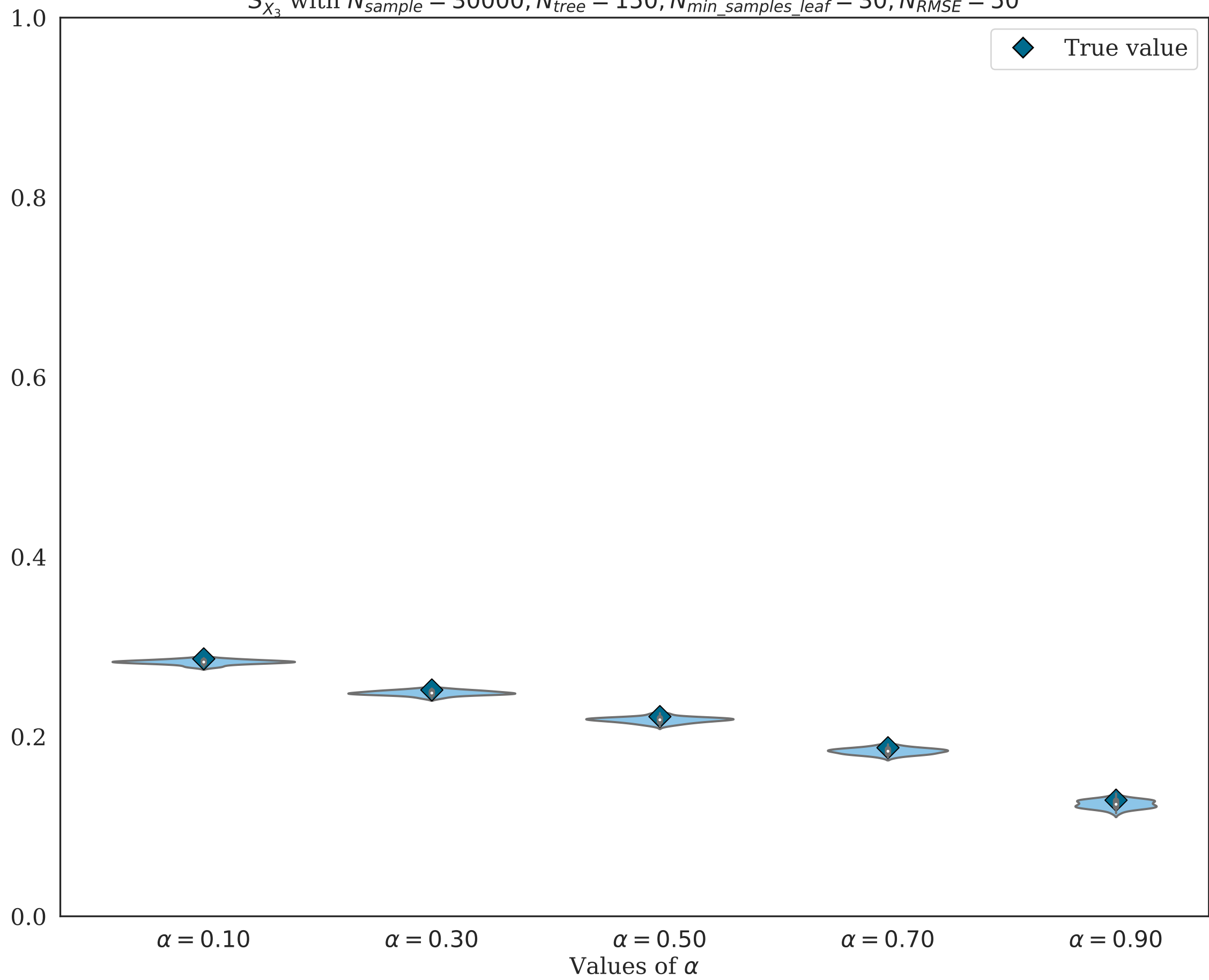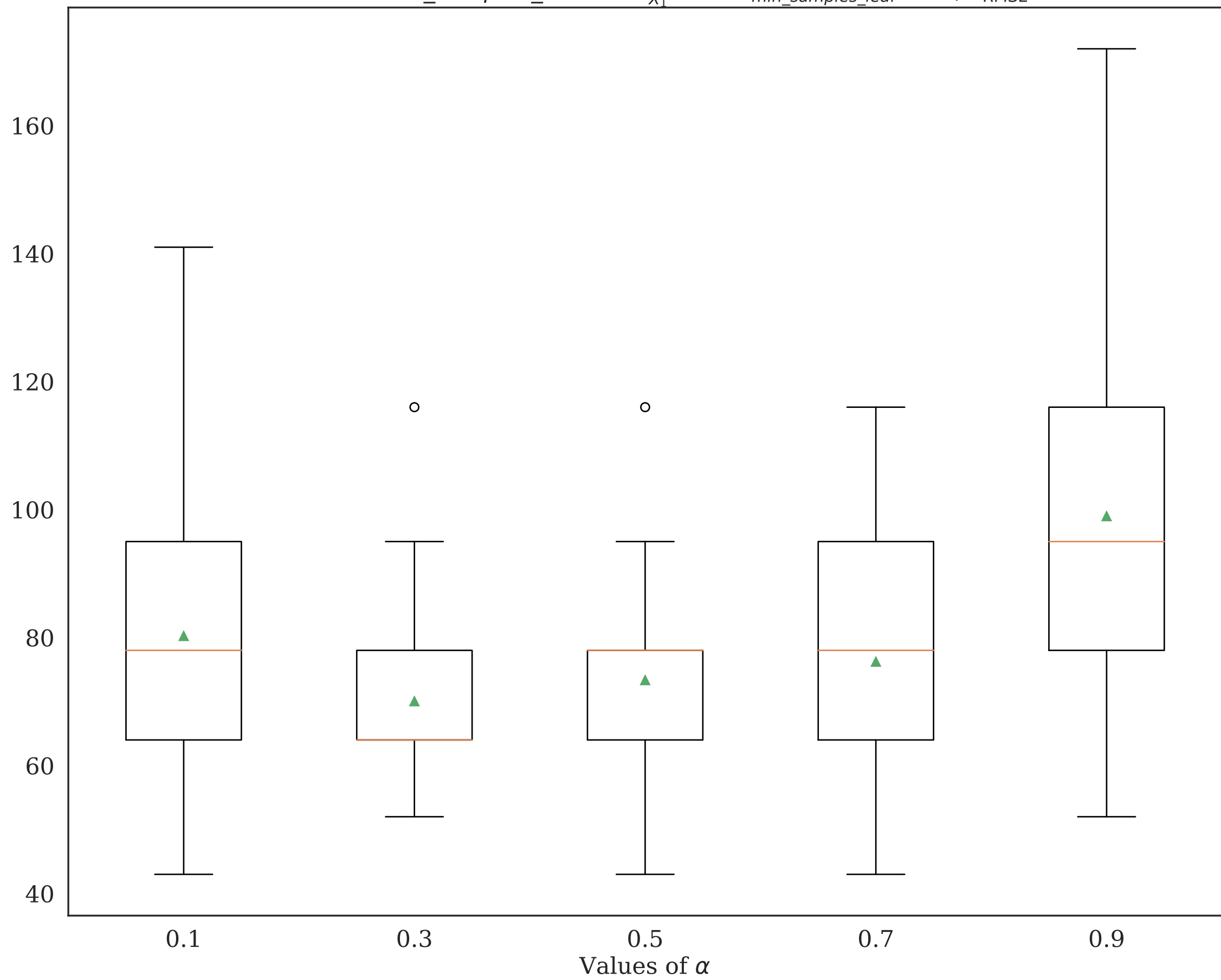
$S_{X_3}^{\alpha}$ with $N_{sample} = 30000, N_{tree} = 150, N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$
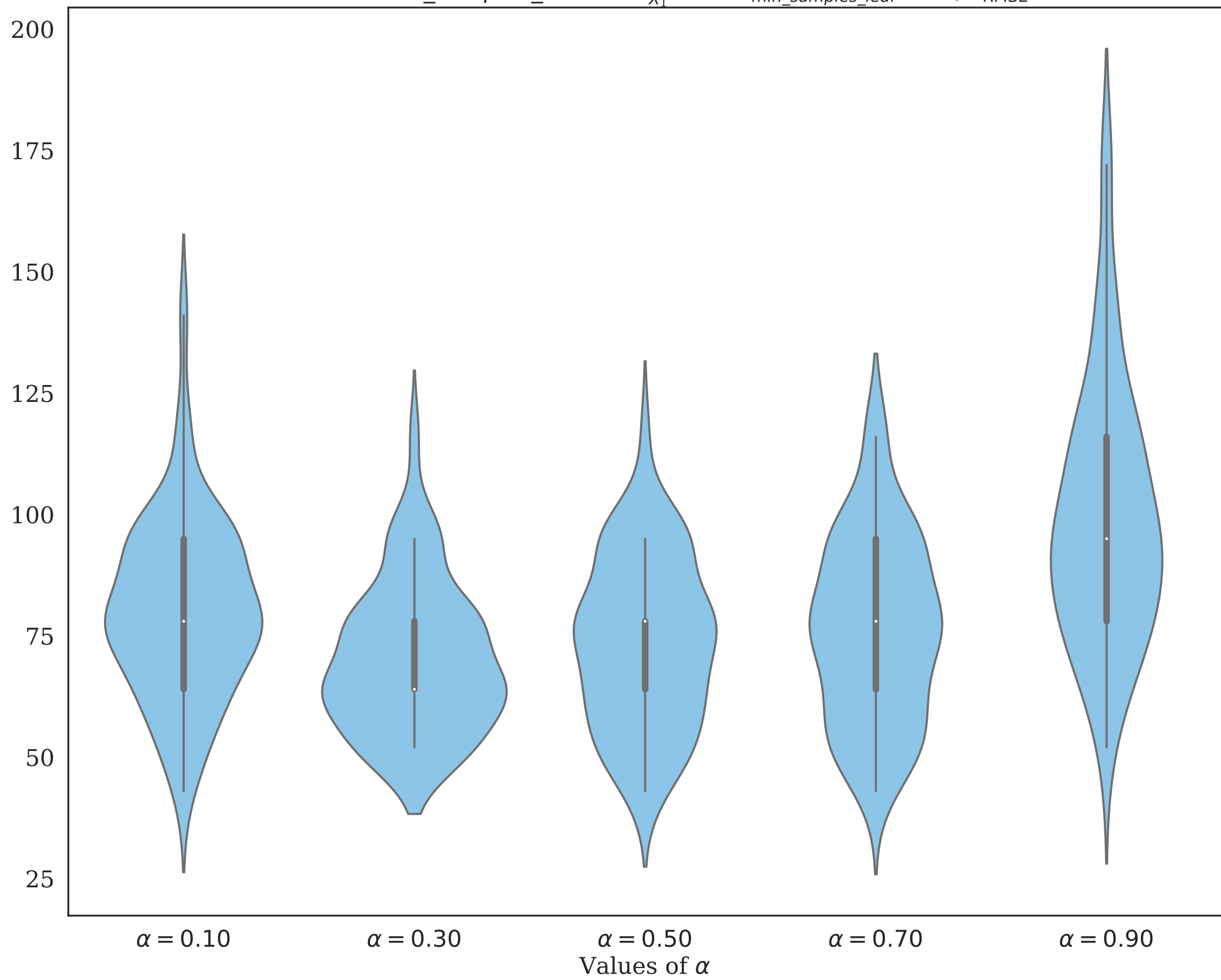
$S_{X_3}^{\alpha}$ with $N_{sample} = 30000$, $N_{tree} = 150$, $N_{min\_samples\_leaf} = 30$, $N_{RMSE} = 50$

Distribution of $min\_samples\_leaf$ for $S^{\alpha}_{X_1}$ with $N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$
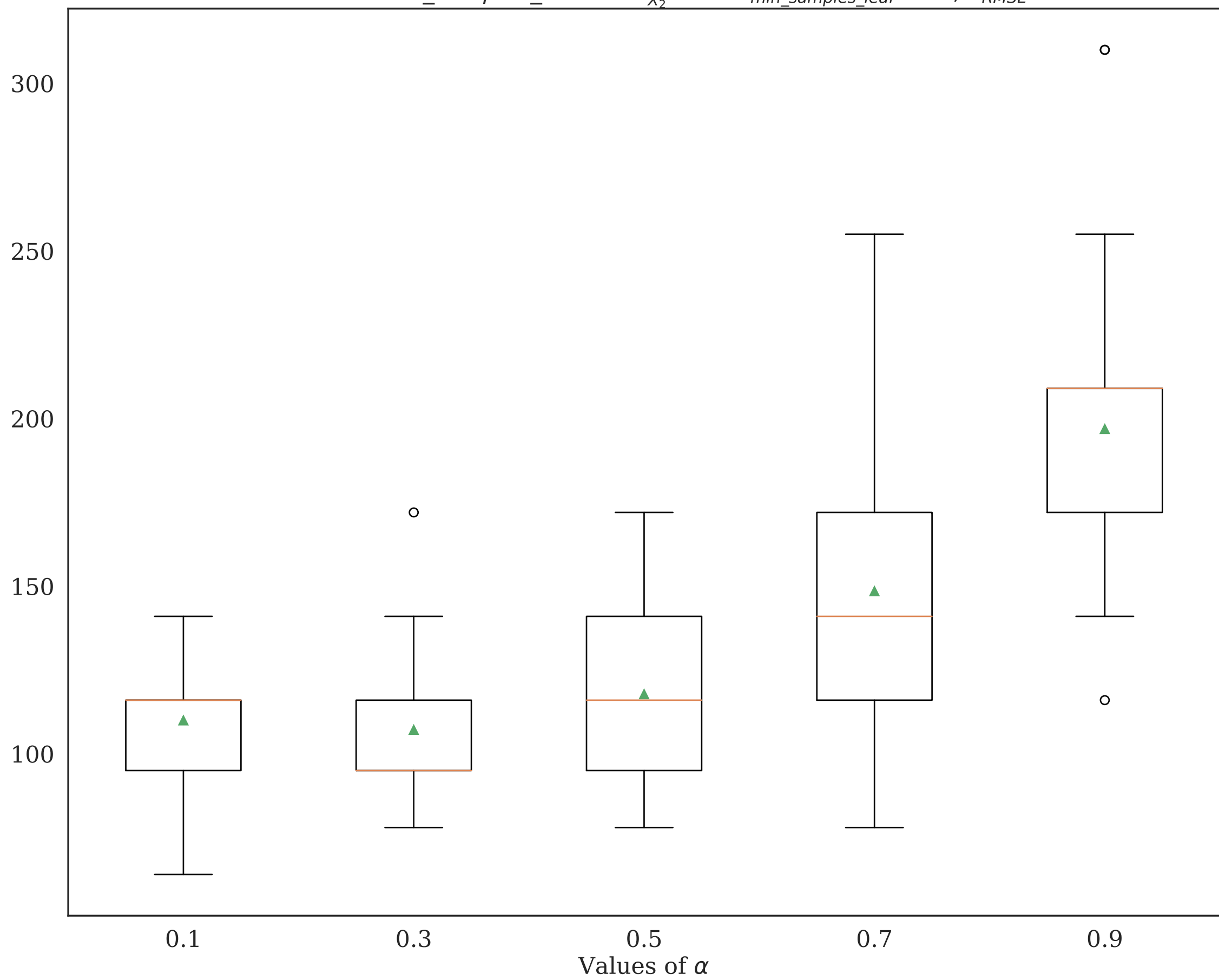
Distribution of $min\_samples\_leaf$ for $S_{X_1}^{\alpha}$ with $N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

Distribution of $min\_samples\_leaf$ for $S_{X_2}^{\alpha}$ with $N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

Distribution of $min\_samples\_leaf$ for $S_{X_2}^\alpha$ with $N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$
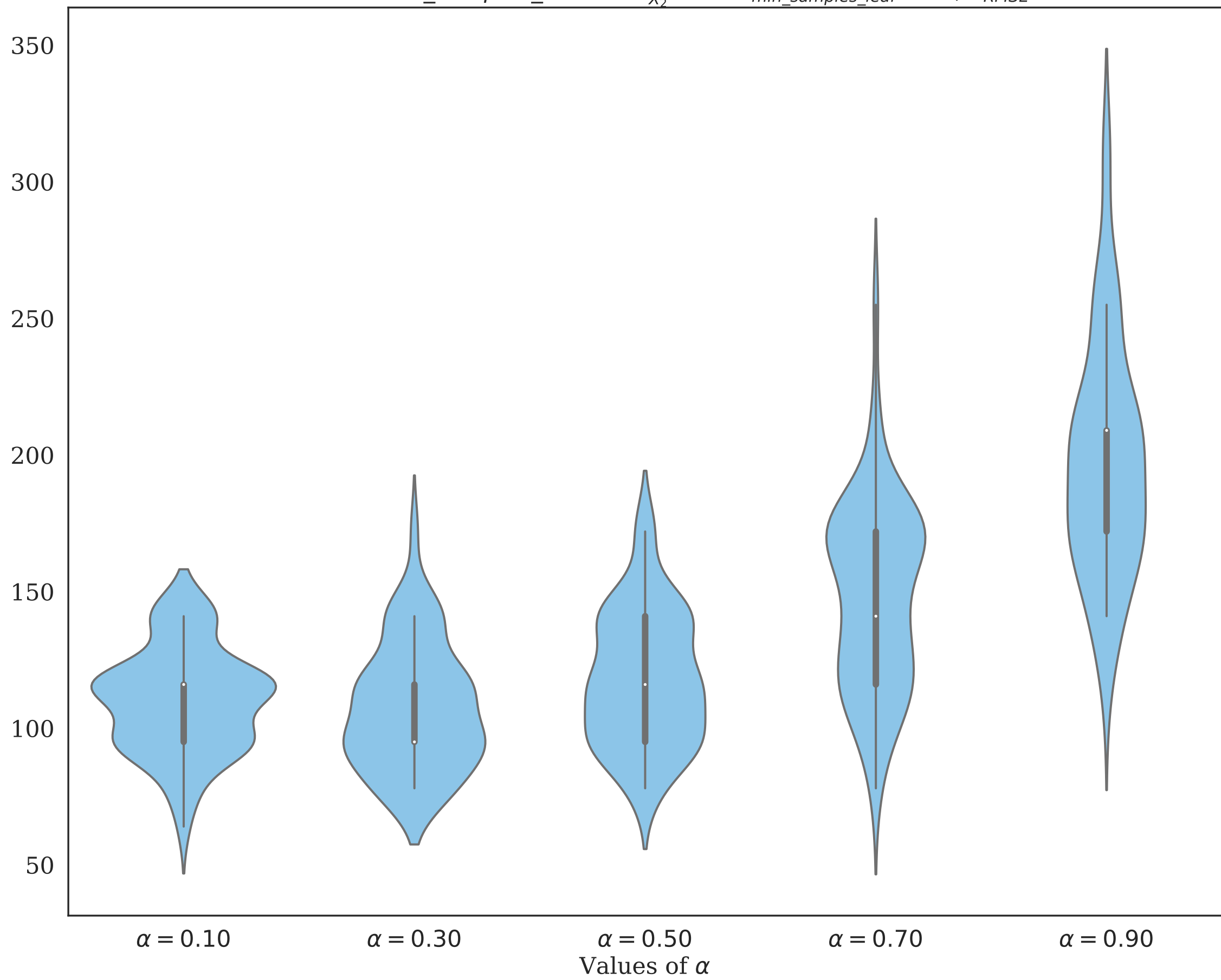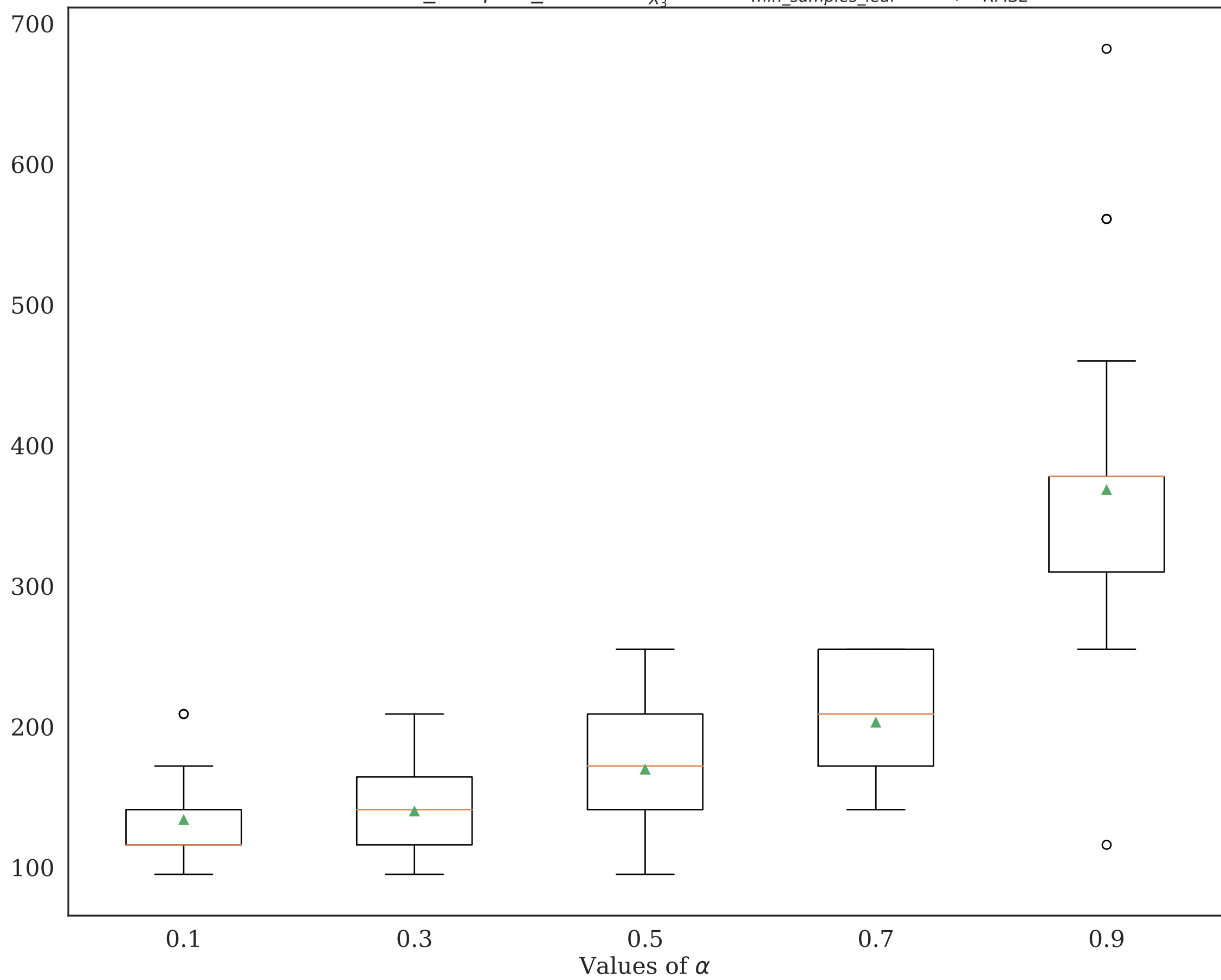
Distribution of $min\_samples\_leaf$ for $S_{X_3}^{\alpha}$ with $N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$

Distribution of $min\_samples\_leaf$ for $S^{\alpha}_{X_3}$ with $N_{min\_samples\_leaf} = 30, N_{RMSE} = 50$