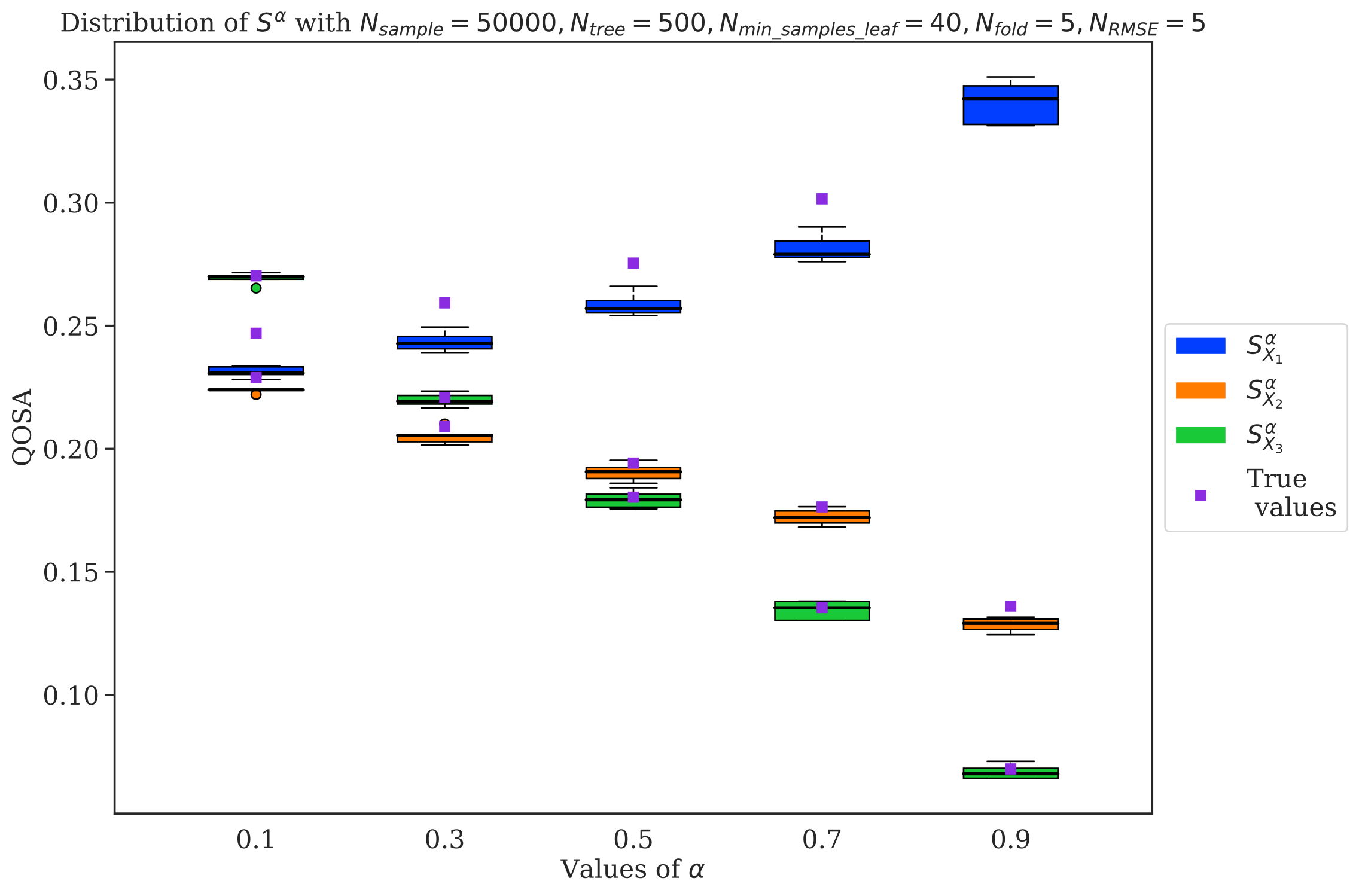
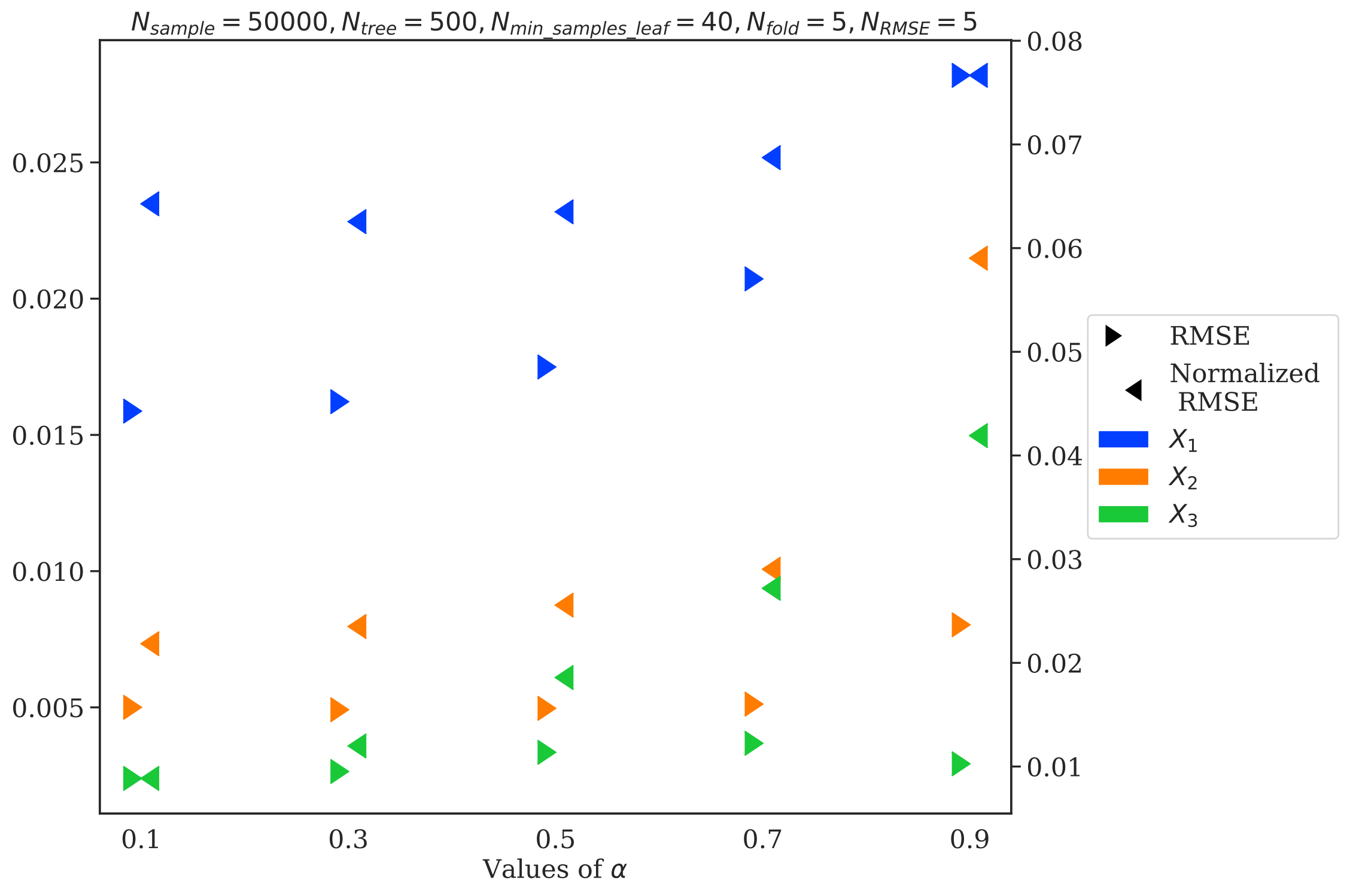
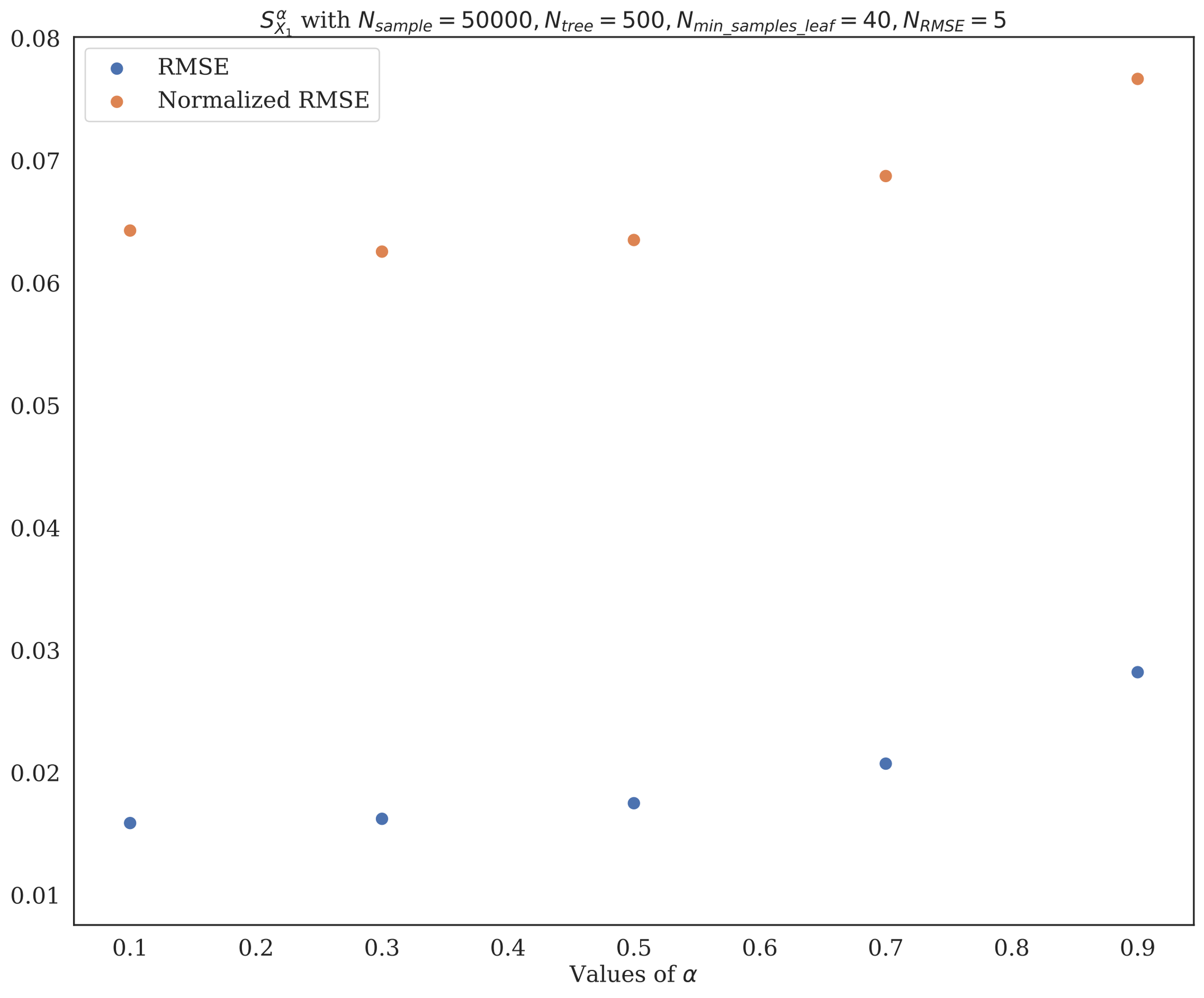
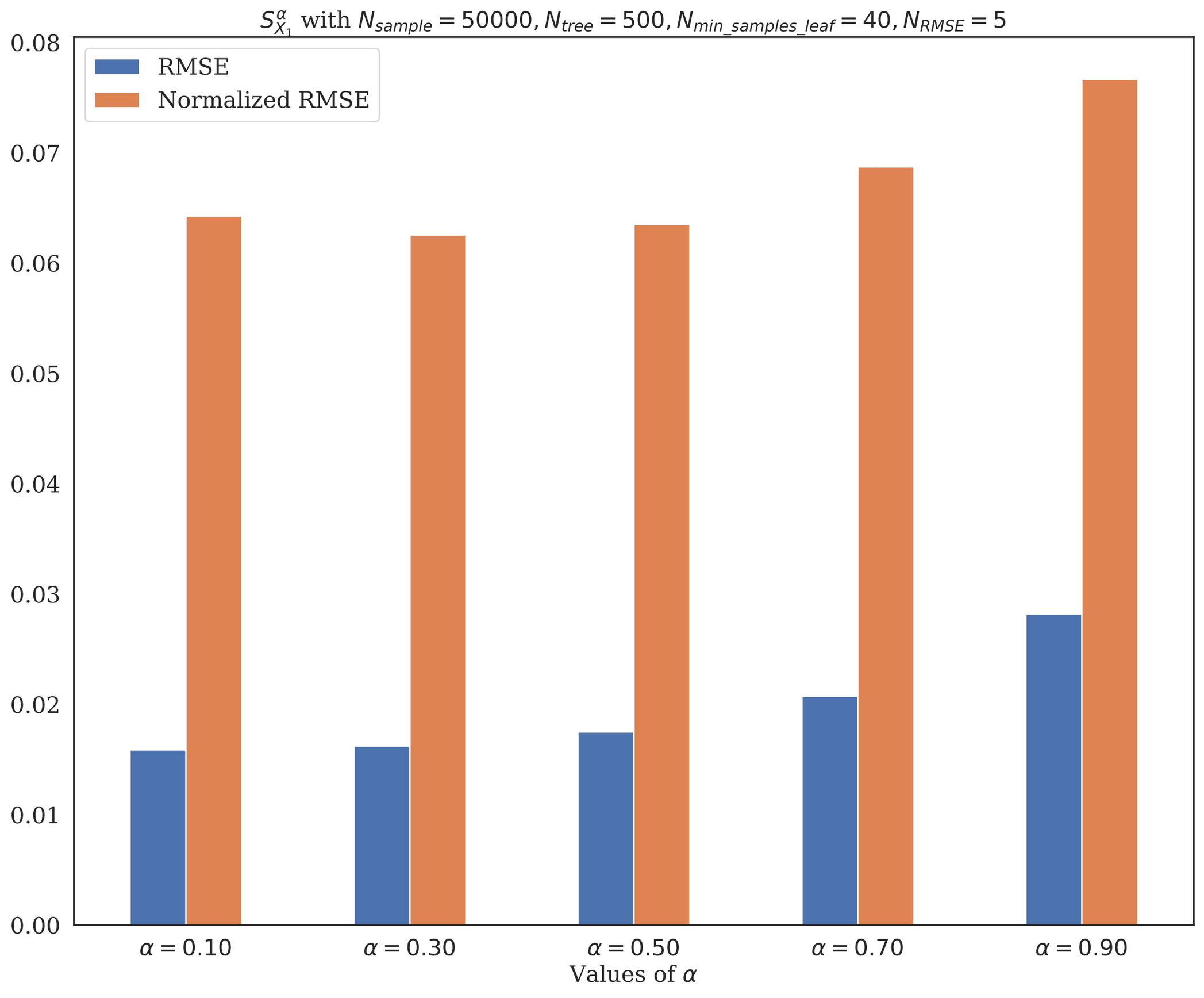
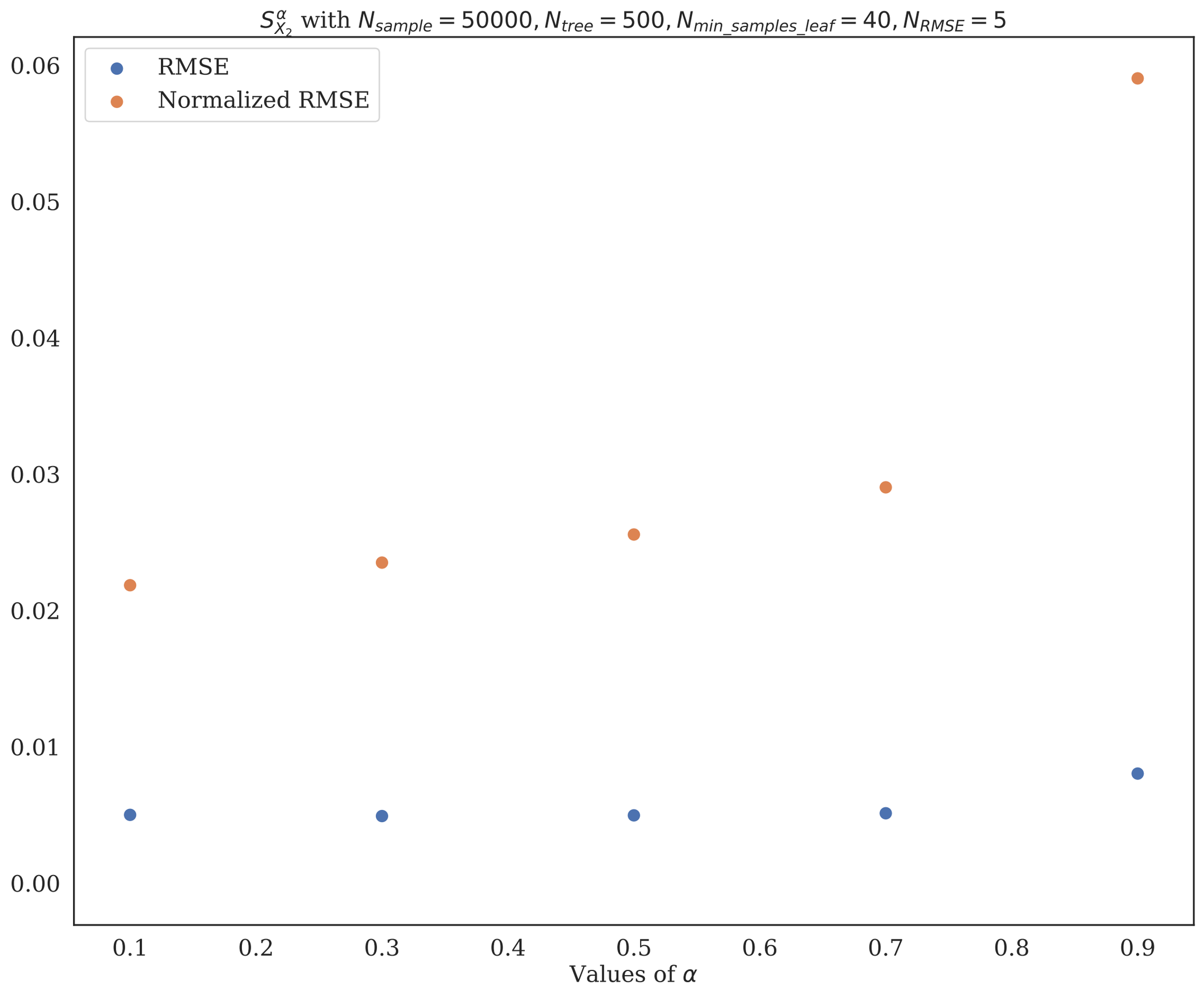
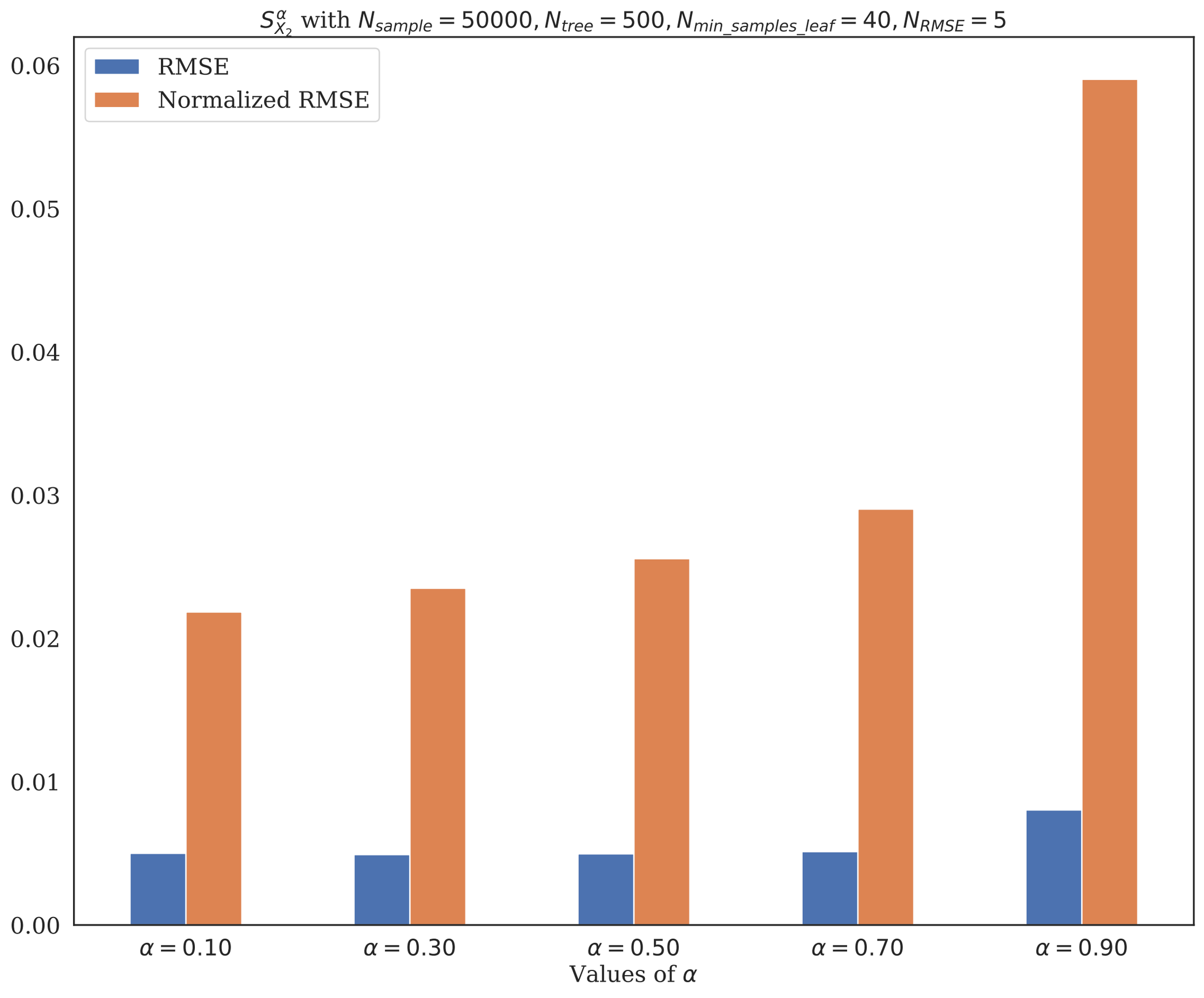

Distribution of S^{α} with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{fold} = 5, N_{RMSE} = 5$
QOSA
0.35
0.30
0.25
0.20
0.15
0.10
0.1
0.3
0.5
0.7
0.9
Values of α
$S^{\alpha}_{X_1}$
$S^{\alpha}_{X_2}$
$S^{\alpha}_{X_3}$
True values

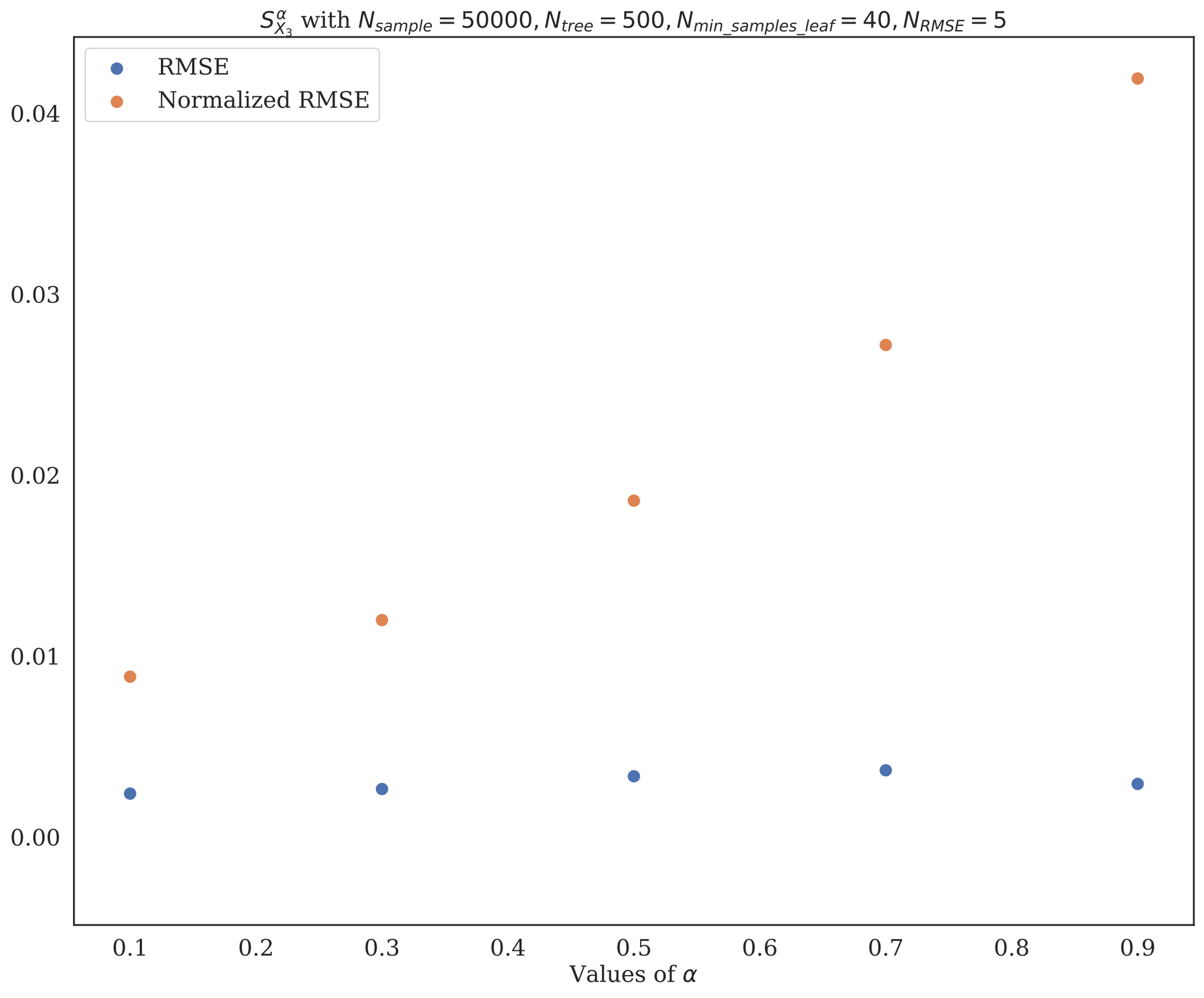

$N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{fold} = 5, N_{RMSE} = 5$
0.025
0.020
0.015
0.010
0.005
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.1
0.3
0.5
0.7
0.9
Values of α
RMSE
Normalized RMSE
X_1
X_2
X_3

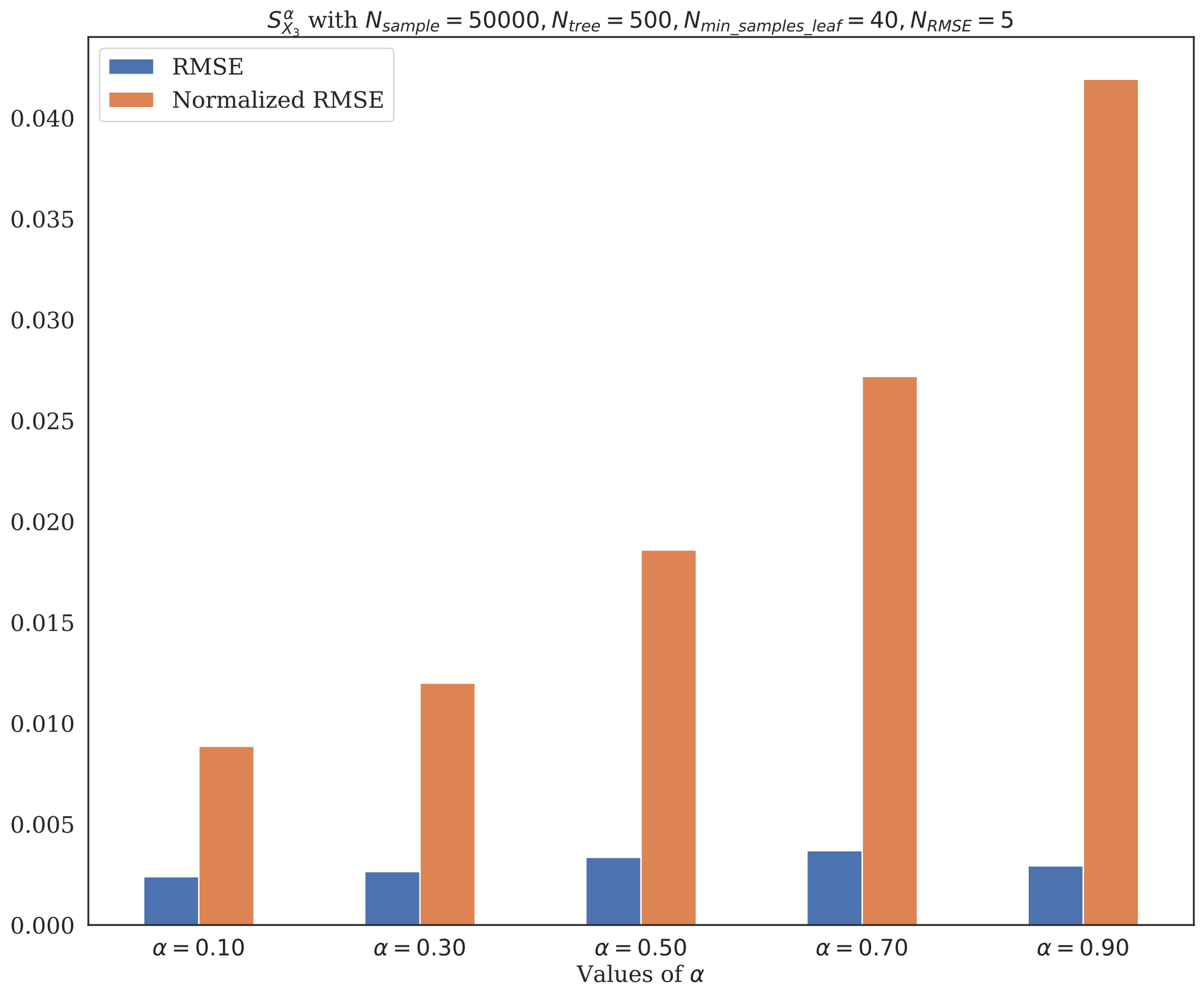

$S^{\alpha}_{X_1}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
RMSE
Normalized RMSE
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
Values of α

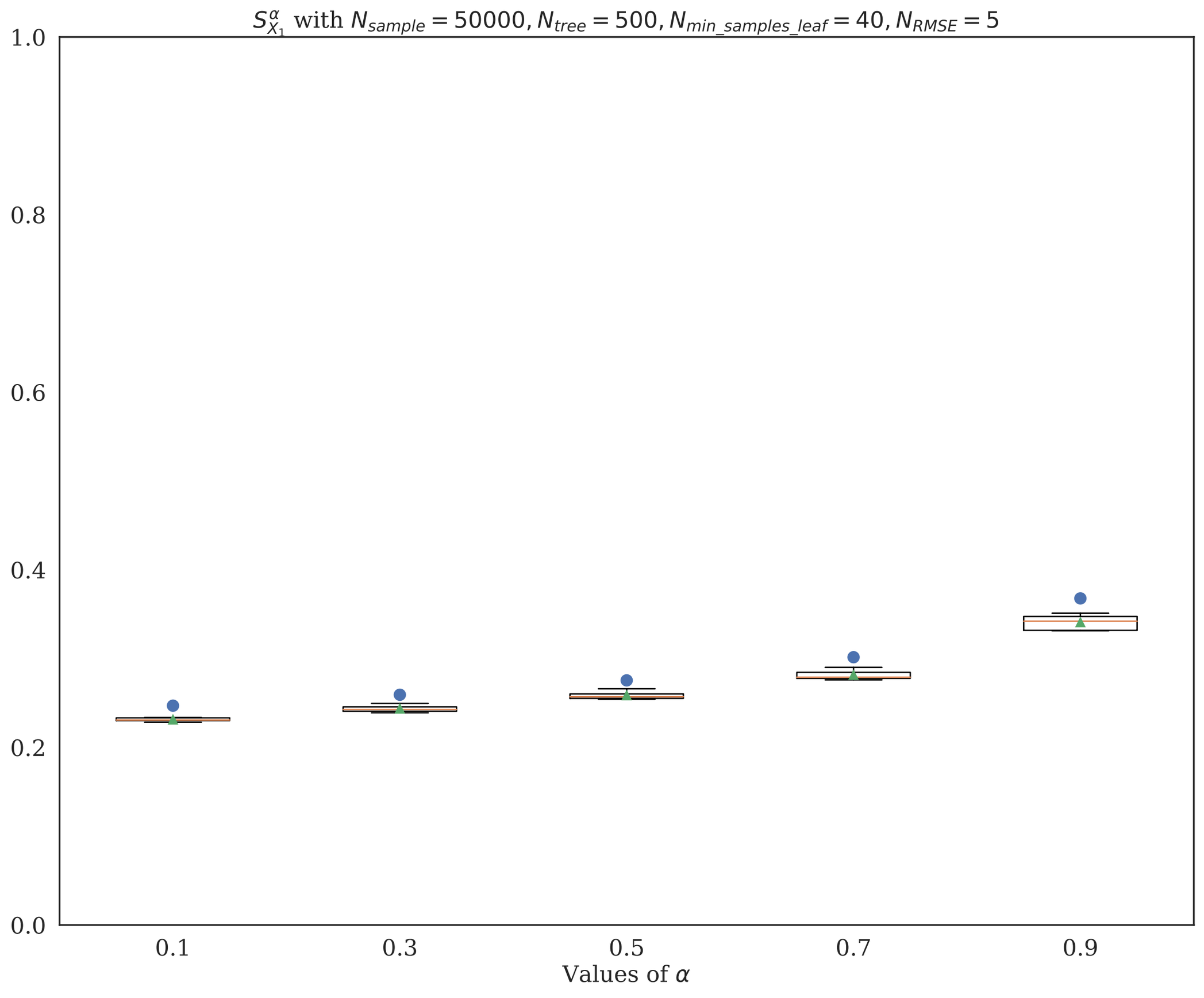

$S^{\alpha}_{X_1}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
RMSE
Normalized RMSE
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

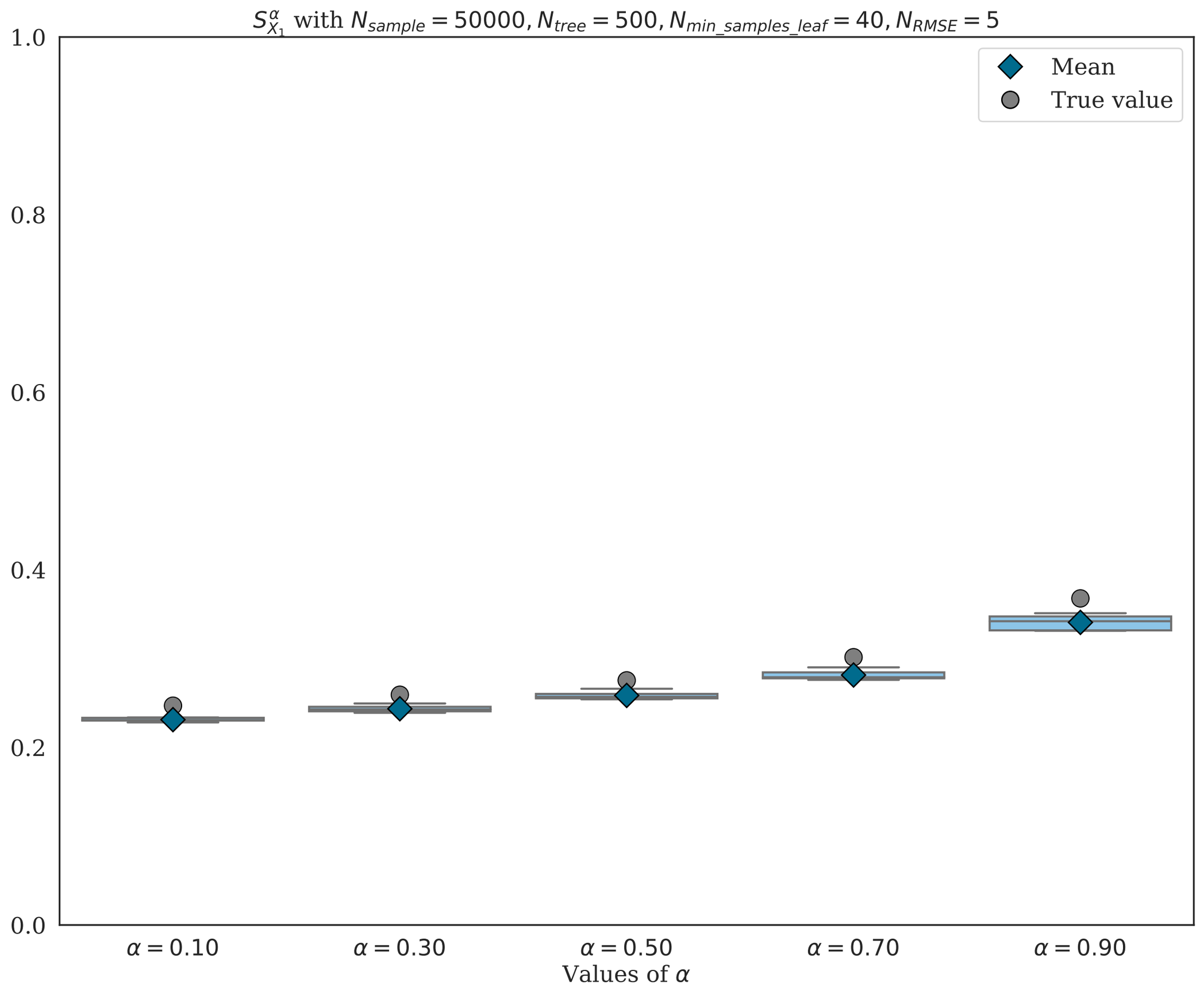

$S^{\alpha}_{X_2}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
RMSE
Normalized RMSE
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
Values of α

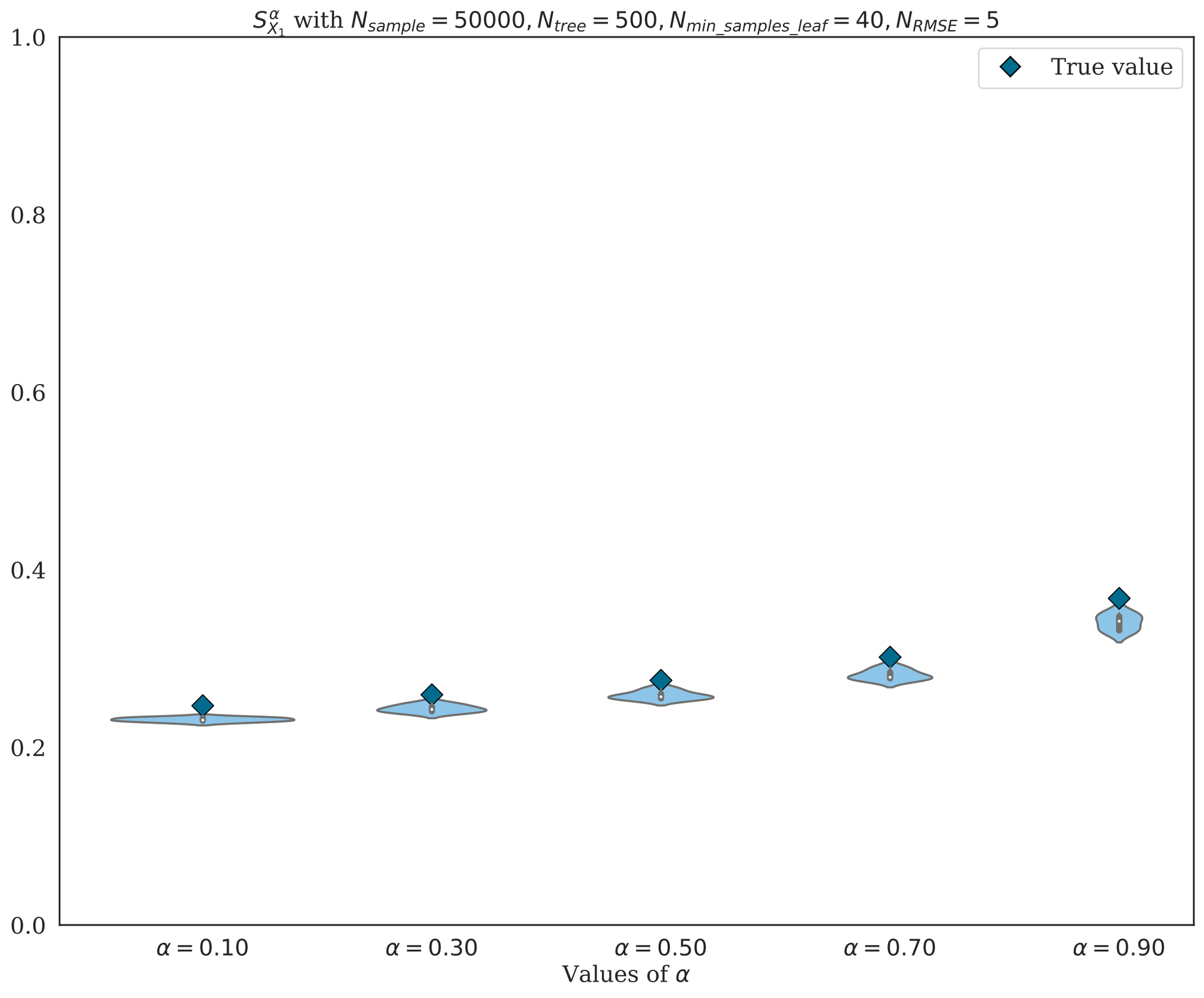

$S^{\alpha}_{X_2}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
RMSE
Normalized RMSE
0.06
0.05
0.04
0.03
0.02
0.01
0.00
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

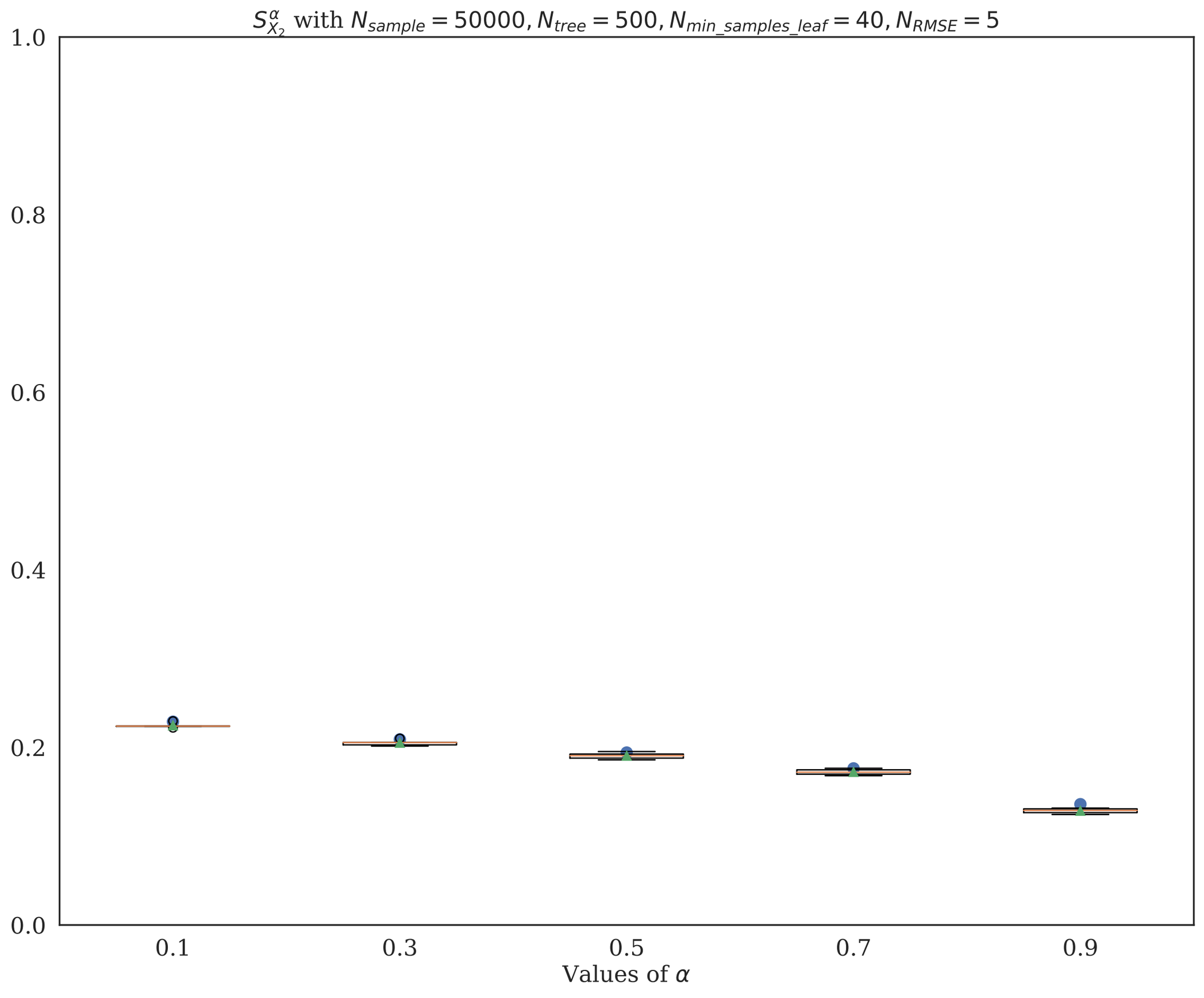

$S^{\alpha}_{X_3}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
RMSE
Normalized RMSE
0.04
0.03
0.02
0.01
0.00
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
Values of α

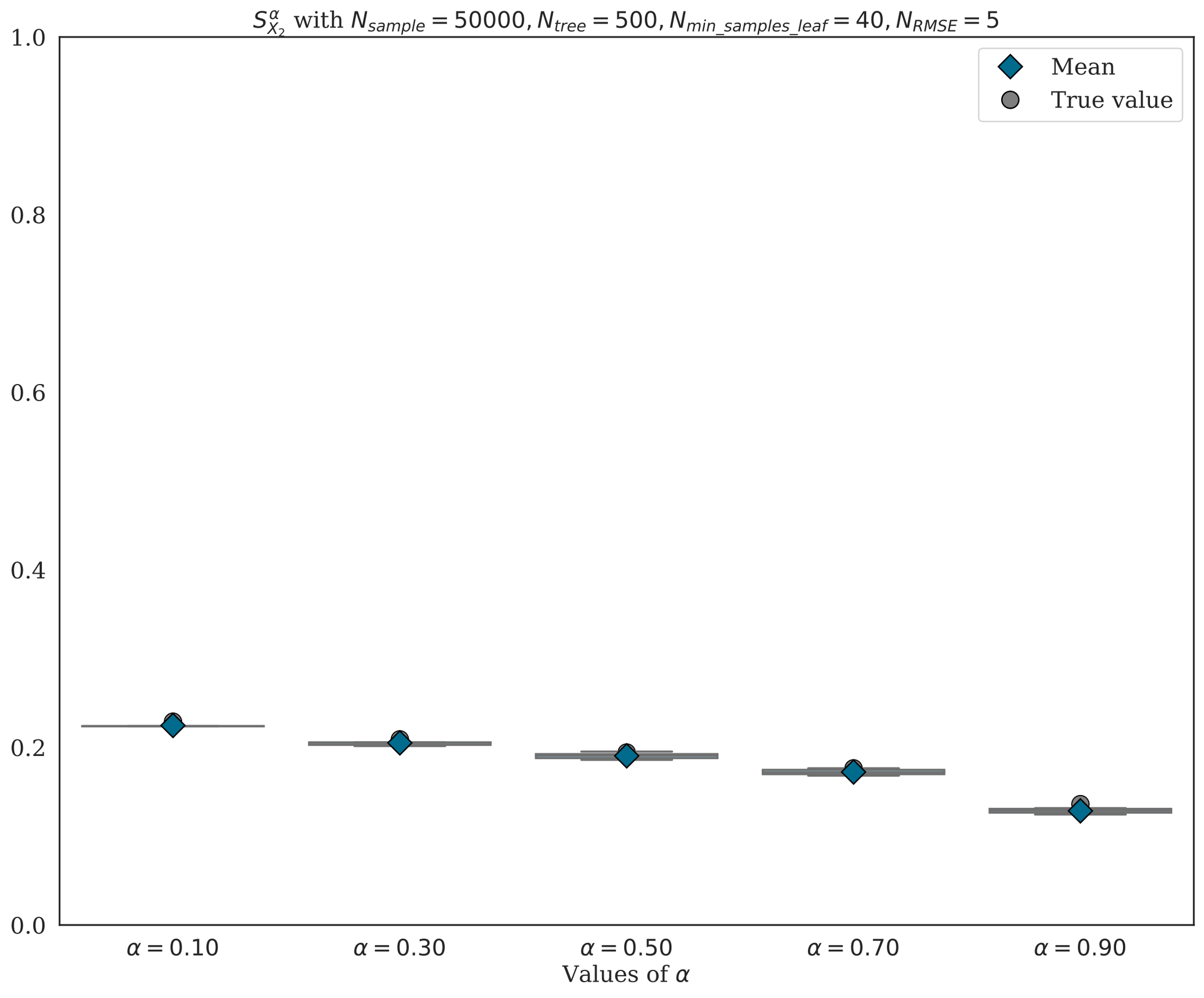

$S^{\alpha}_{X_3}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
RMSE
Normalized RMSE
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

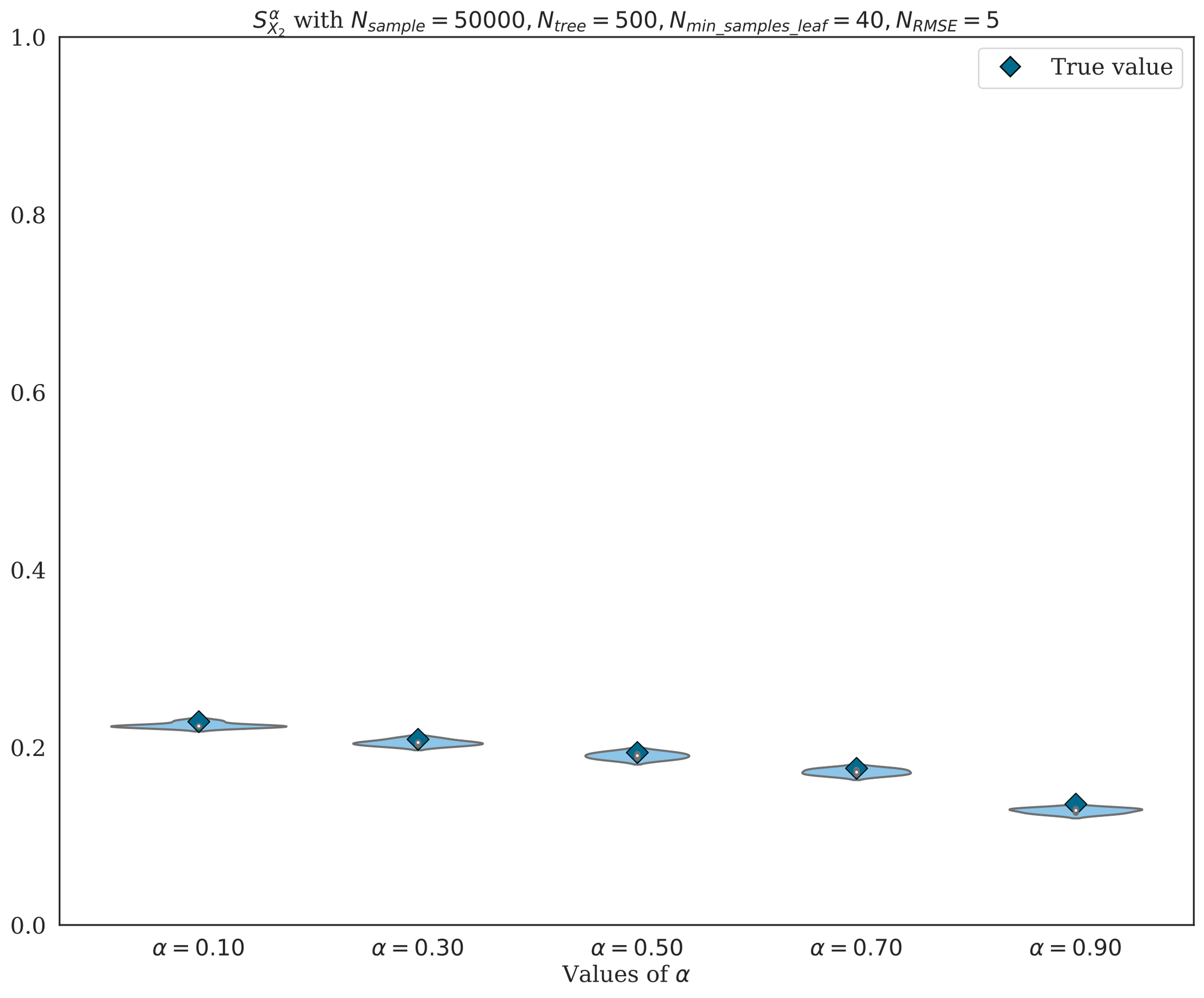

$S^{\alpha}_{X_1}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
1.0
0.8
0.6
0.4
0.2
0.0
0.1
0.3
0.5
0.7
0.9
Values of α

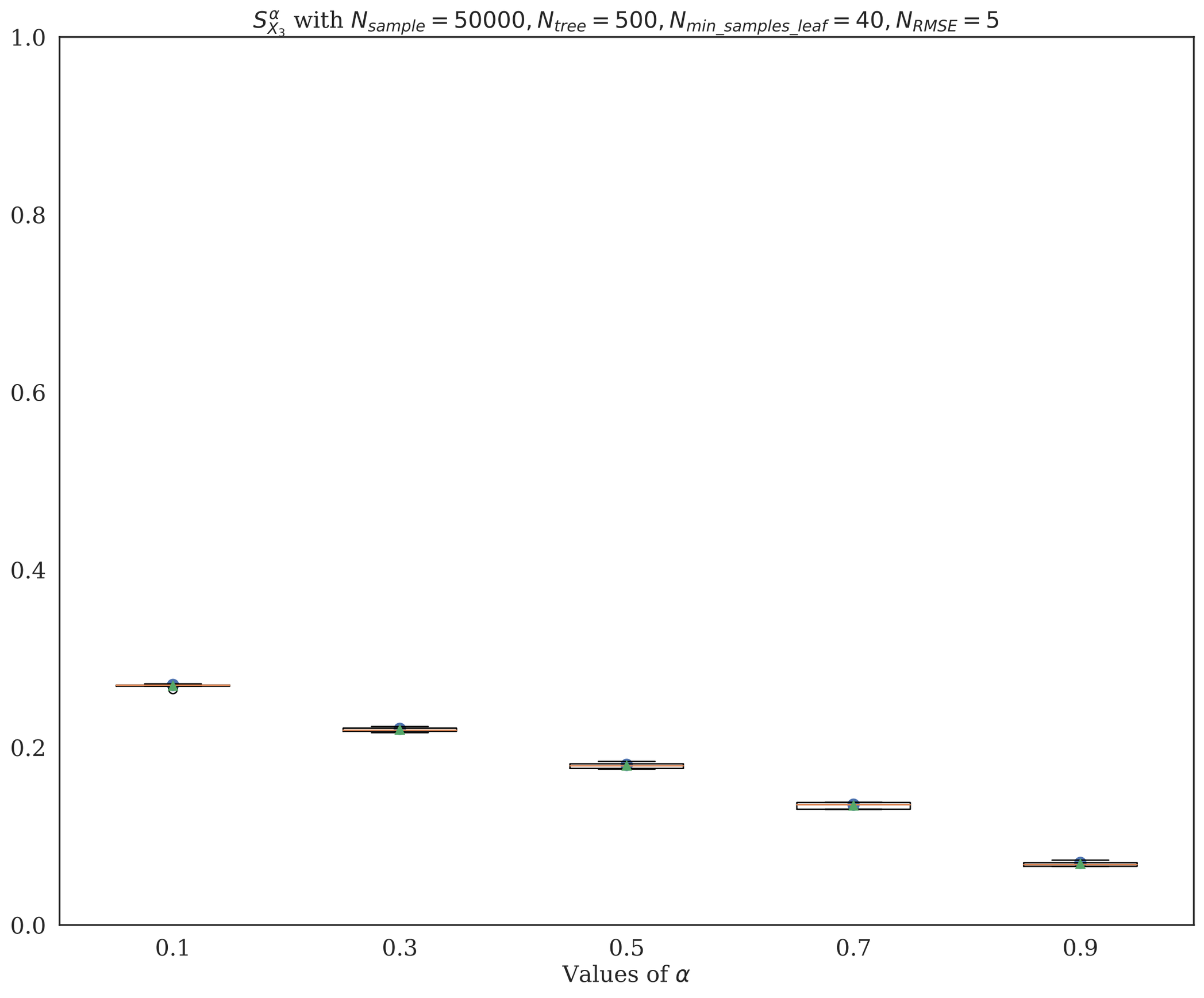

$S^{\alpha}_{X_1}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
Mean
True value
1.0
0.8
0.6
0.4
0.2
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

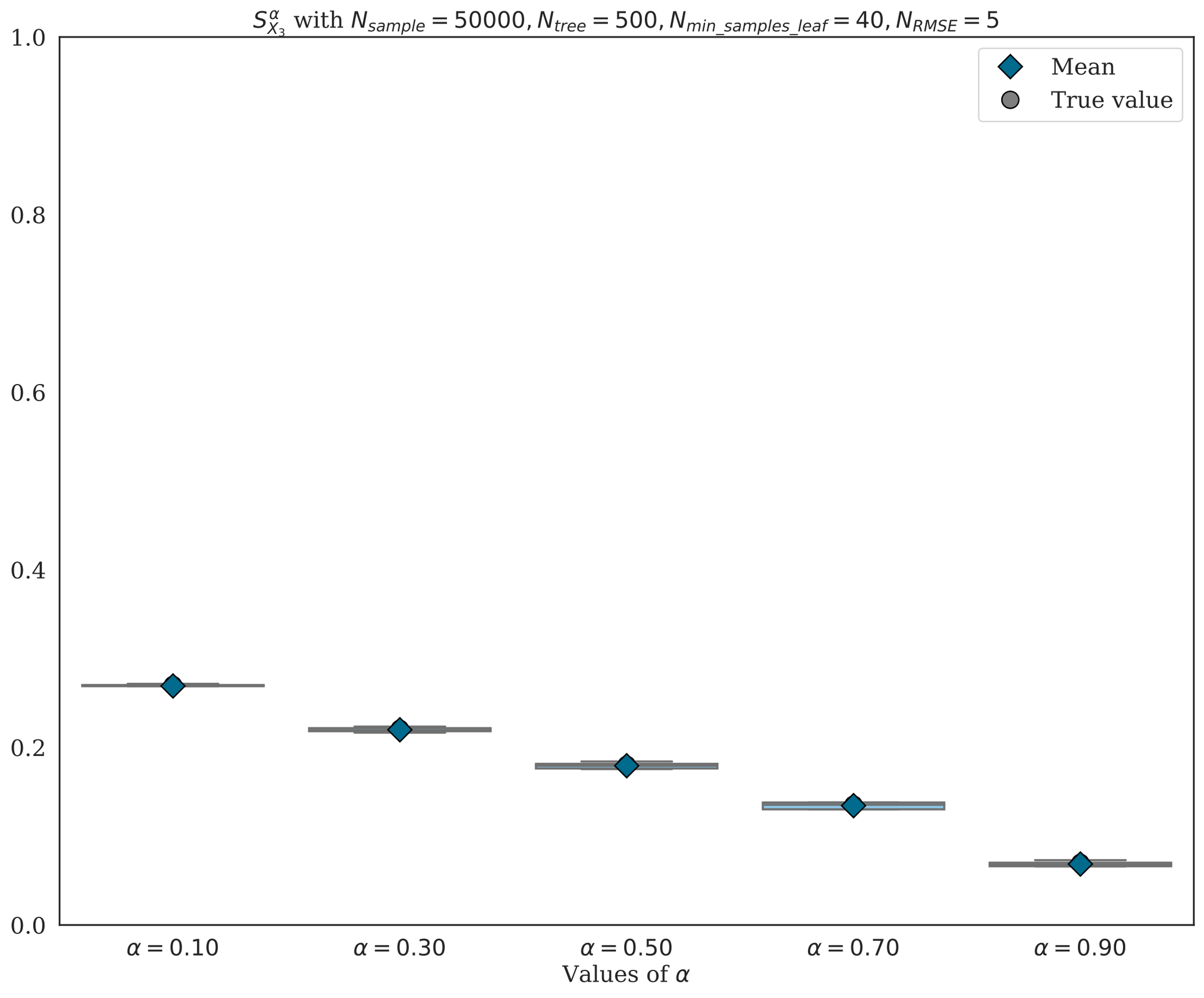

$S^{\alpha}_{X_1}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
True value
1.0
0.8
0.6
0.4
0.2
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

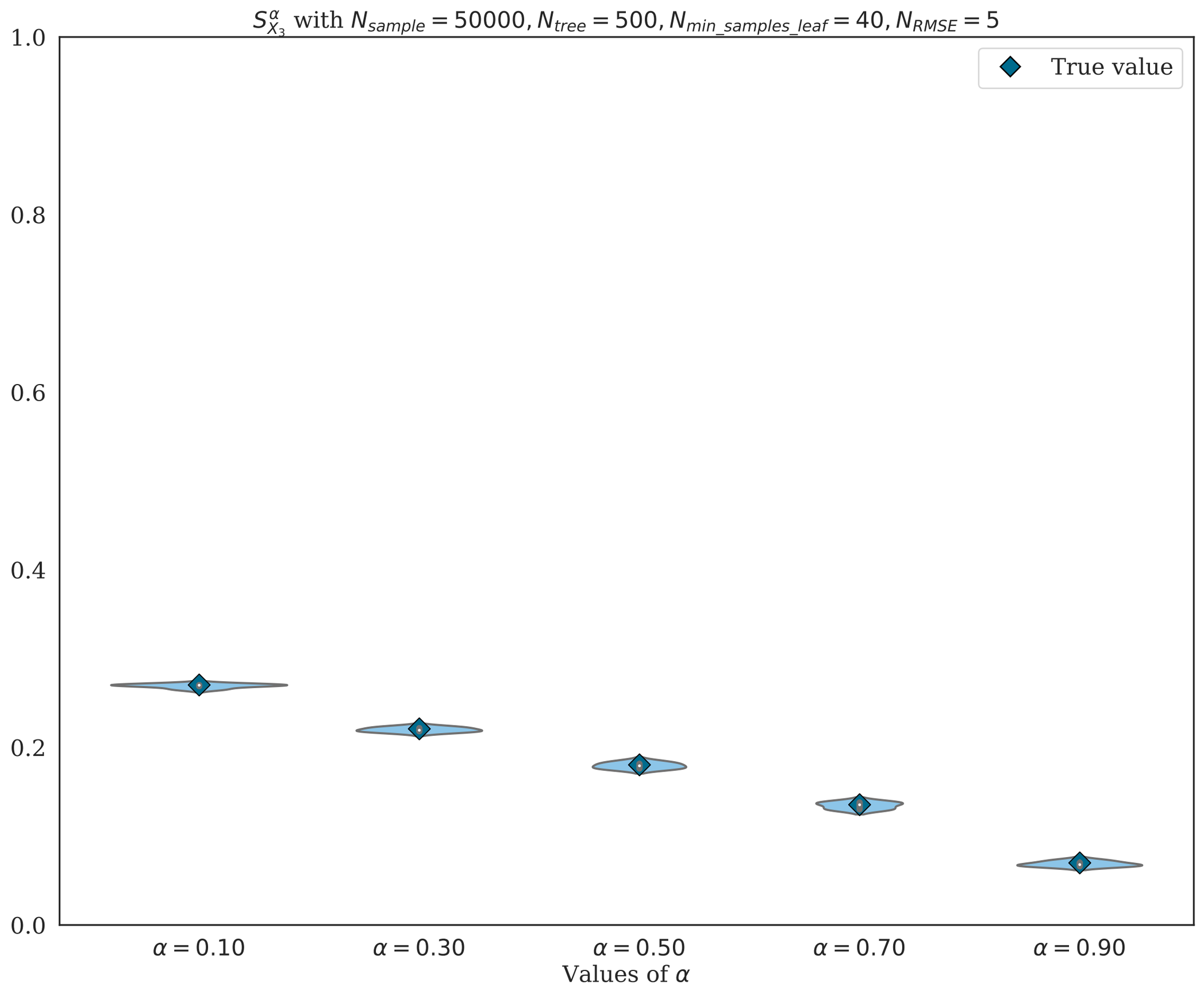

$S^{\alpha}_{X_2}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
1.0
0.8
0.6
0.4
0.2
0.0
0.1
0.3
0.5
0.7
0.9
Values of α

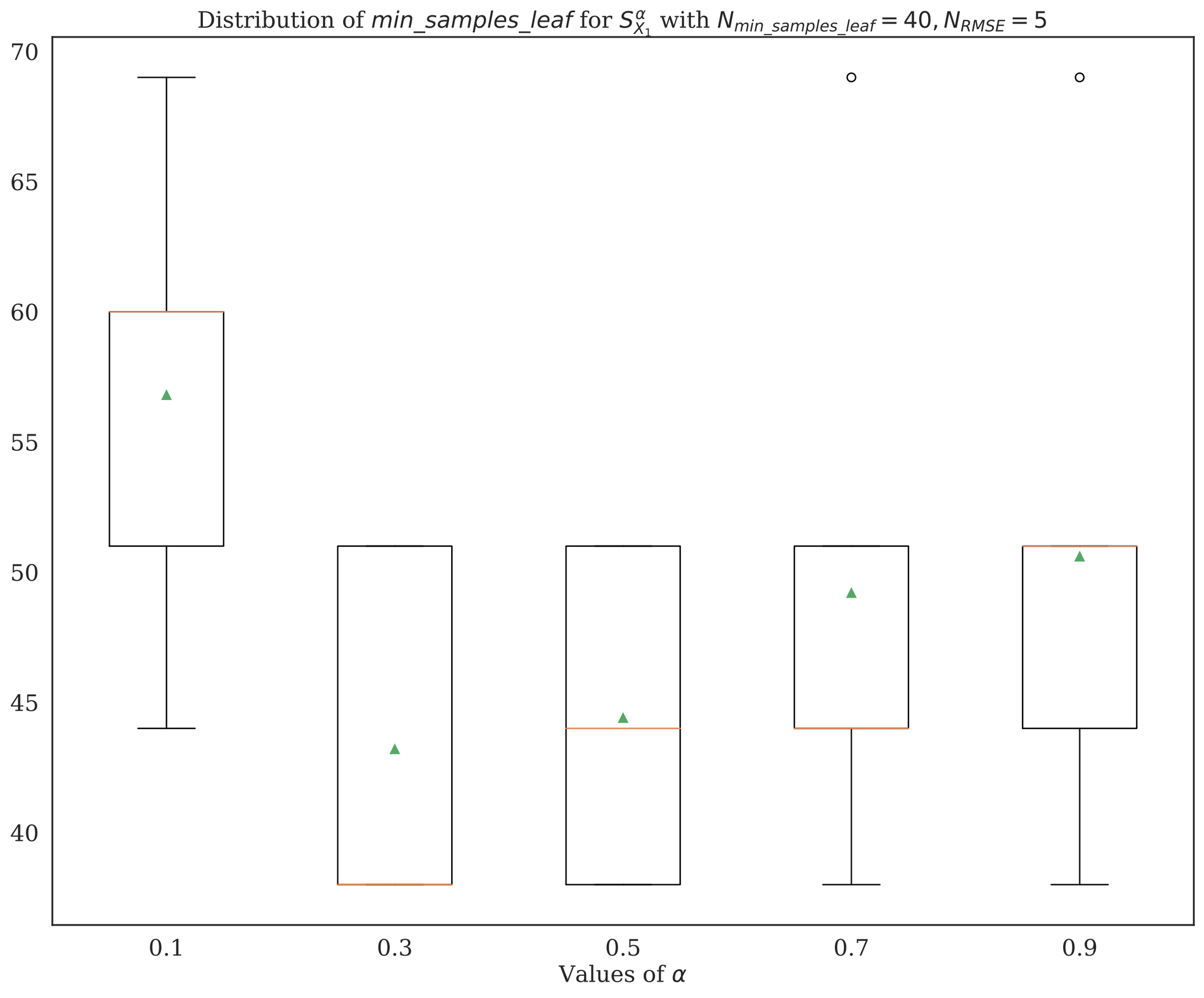

$S^{\alpha}_{X_2}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
Mean
True value
1.0
0.8
0.6
0.4
0.2
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

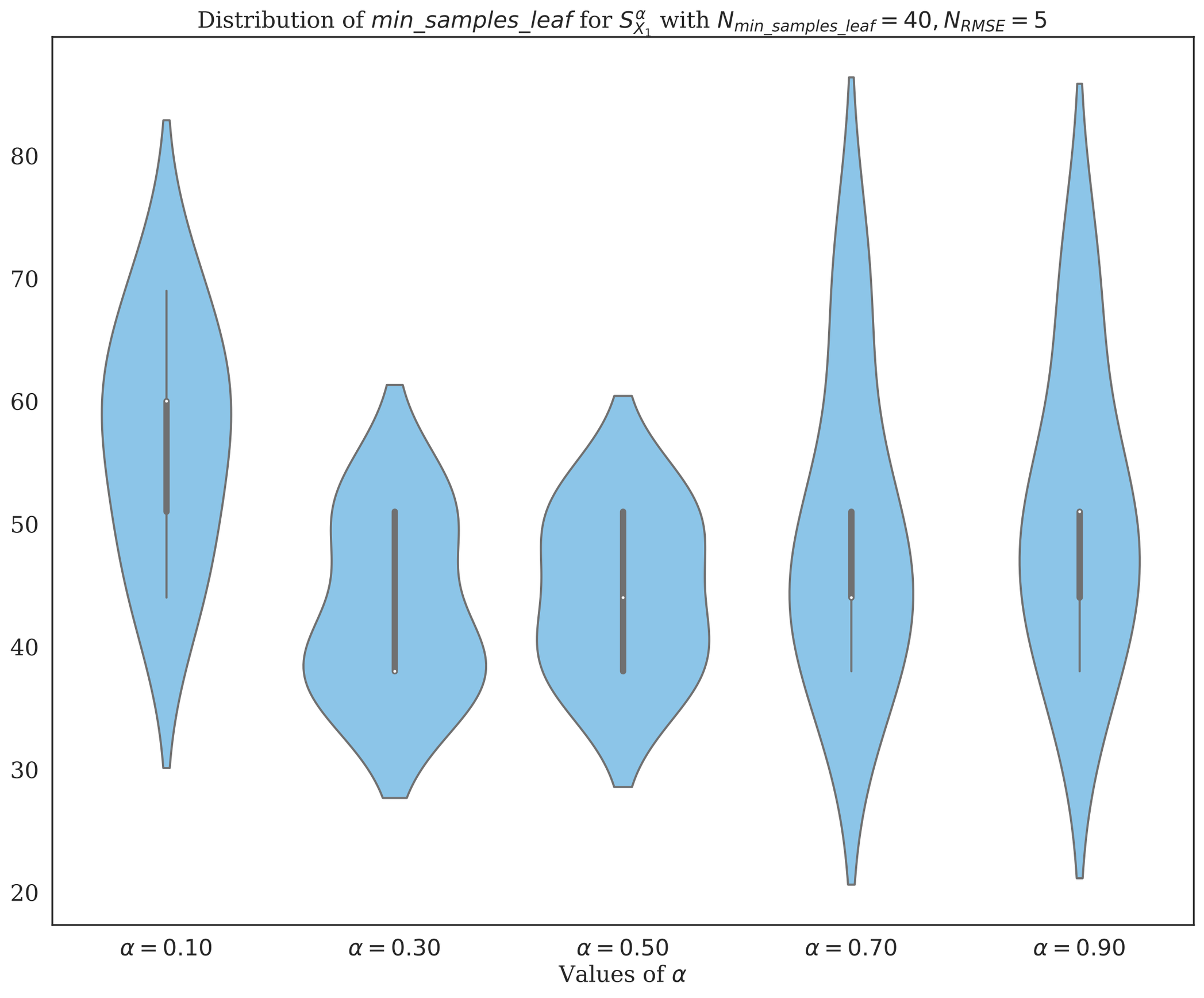

$S^{\alpha}_{X_2}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
True value
1.0
0.8
0.6
0.4
0.2
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

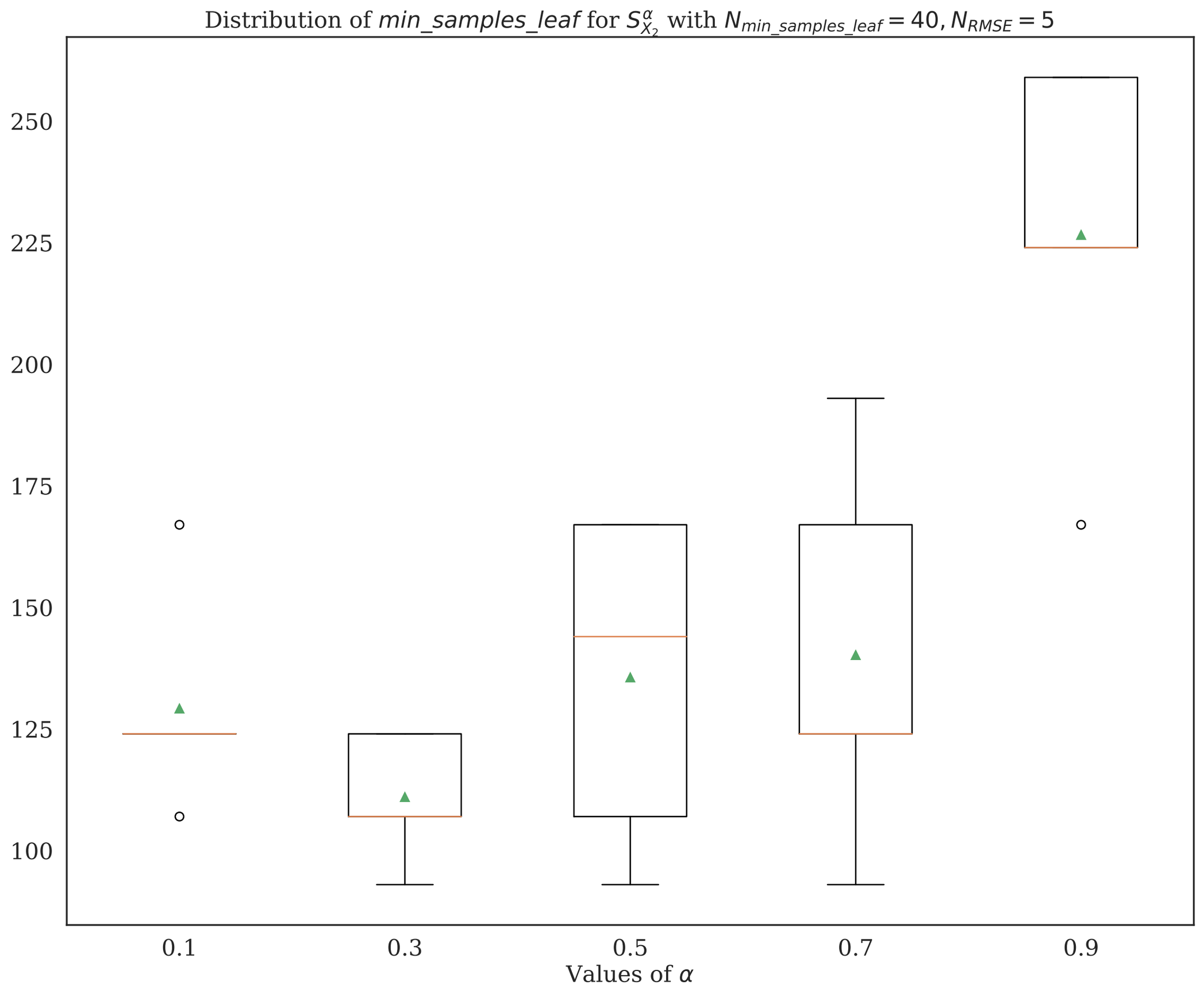

$S^{\alpha}_{X_3}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
1.0
0.8
0.6
0.4
0.2
0.0
0.1
0.3
0.5
0.7
0.9
Values of α

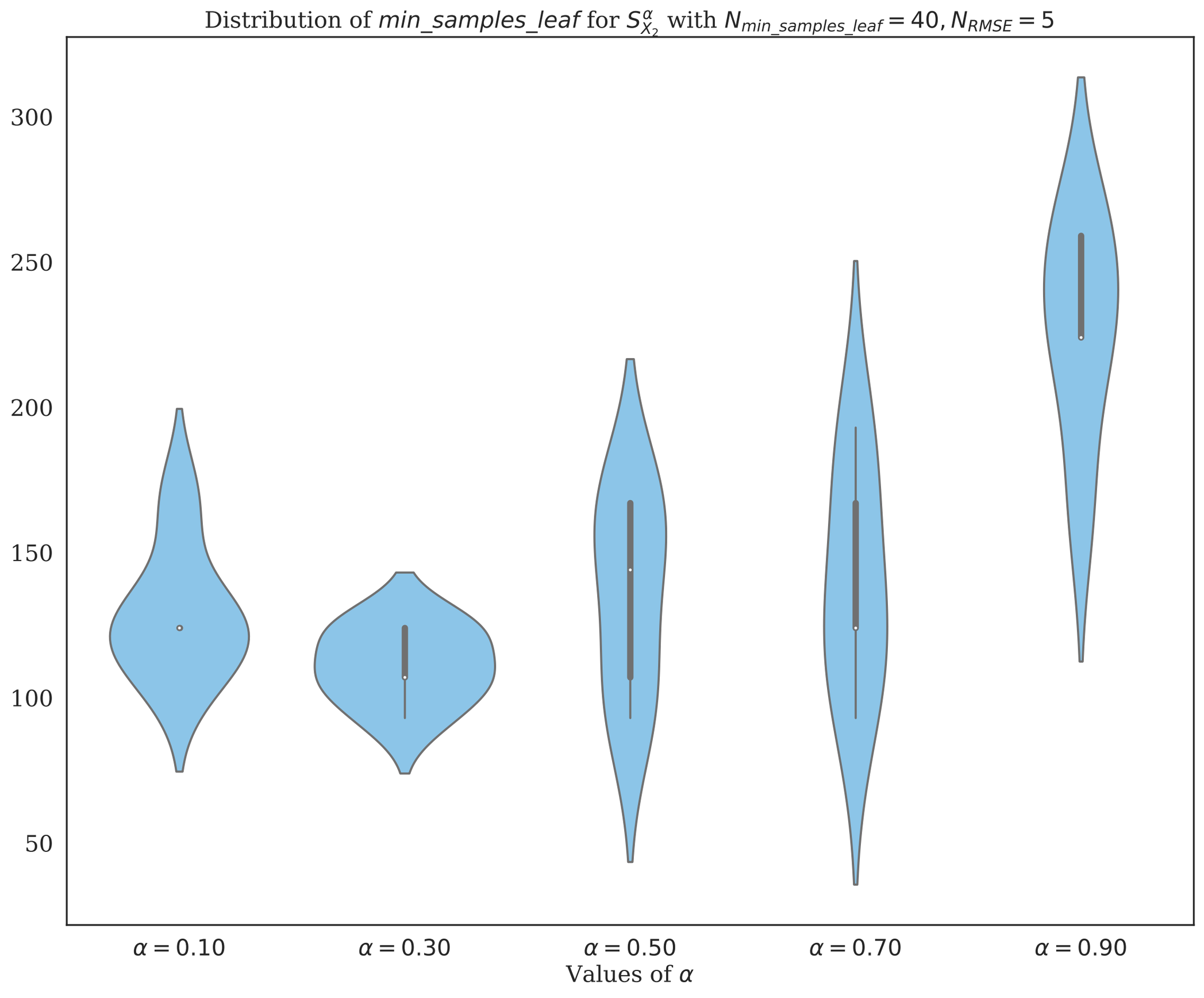

$S^{\alpha}_{X_3}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
Mean
True value
1.0
0.8
0.6
0.4
0.2
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

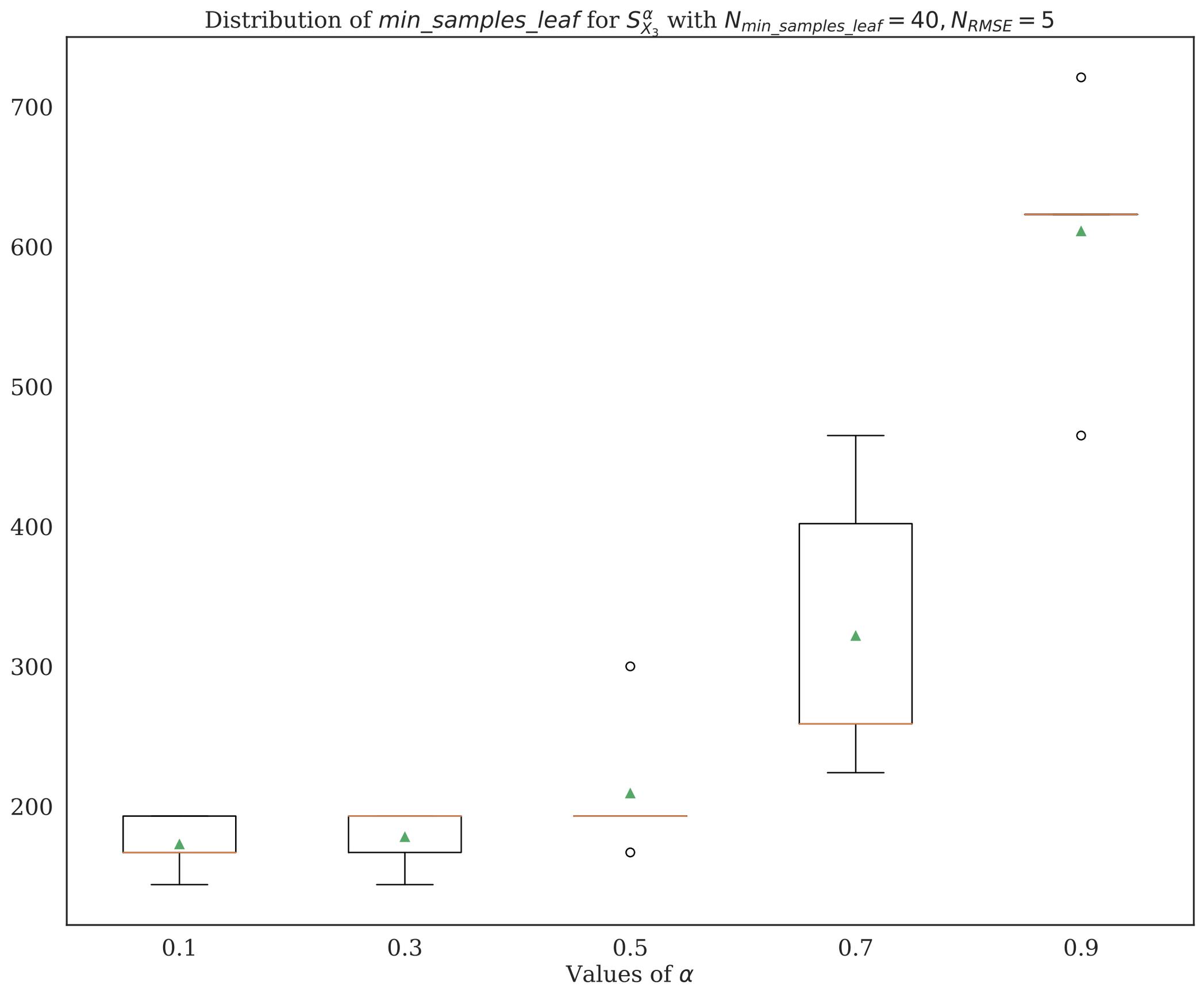

$S^{\alpha}_{X_3}$ with $N_{sample} = 50000, N_{tree} = 500, N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
True value
1.0
0.8
0.6
0.4
0.2
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α

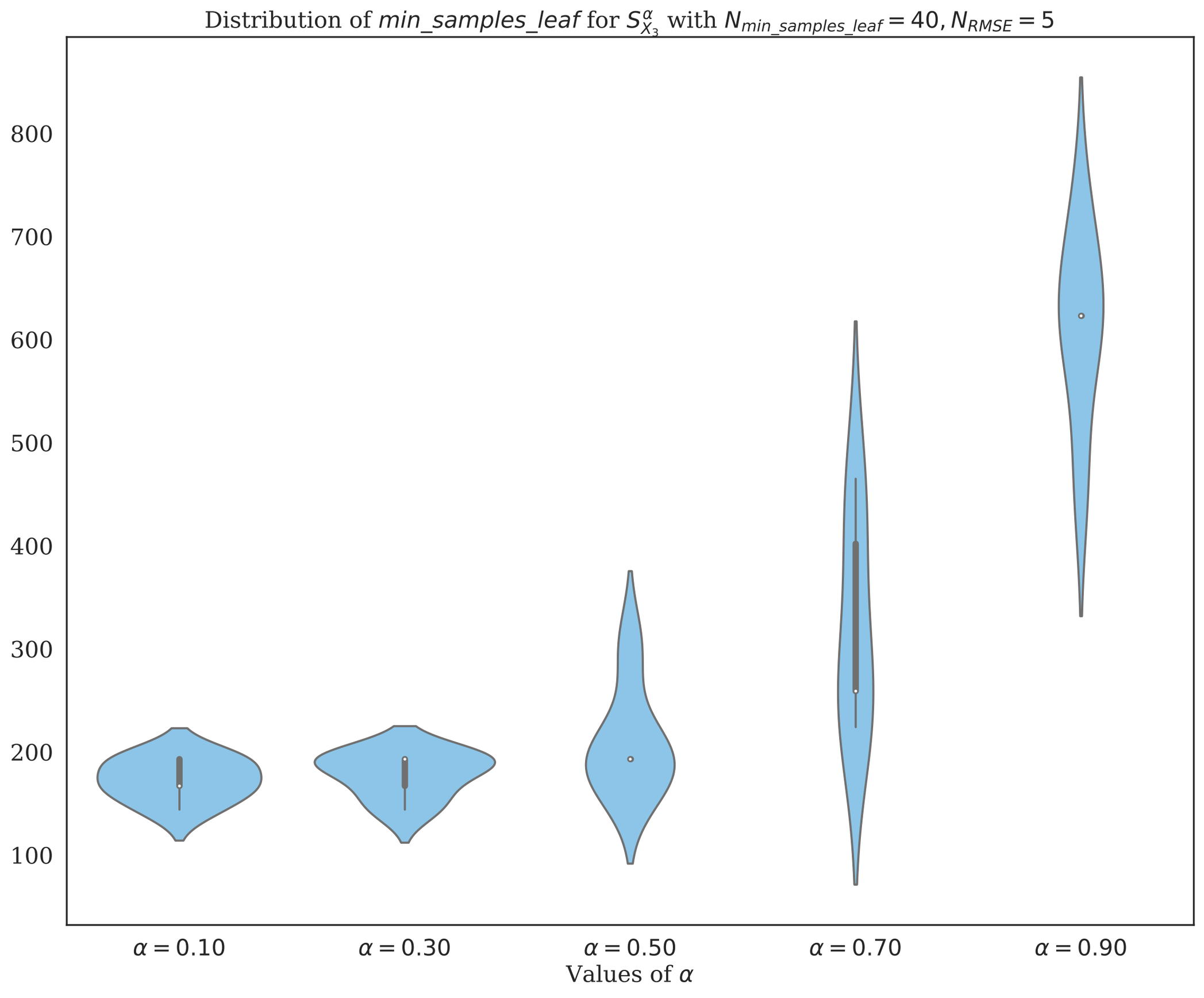

Distribution of min_samples_leaf for $S^{\alpha}_{X_1}$ with $N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
70
65
60
55
50
45
40
0.1
0.3
0.5
0.7
0.9
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_1}$ with $N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
80
70
60
50
40
30
20
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_2}$ with $N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
250
225
200
175
150
125
100
0.1
0.3
0.5
0.7
0.9
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_2}$ with $N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
300
250
200
150
100
50
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_3}$ with $N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
700
600
500
400
300
200
0.1
0.3
0.5
0.7
0.9
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_3}$ with $N_{min\_samples\_leaf} = 40, N_{RMSE} = 5$
800
700
600
500
400
300
200
100
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.50$
$\alpha = 0.70$
$\alpha = 0.90$
Values of α