

Neural network's T test:

Test duration -> 1 day, 6:34:58.872724

Adam epochs -> 500

Max L-BFGS iterations -> 2000

Neural network's structure -> 5 hidden layers of 20 neurons

Train Nu -> 1000

Train Nf -> 100000

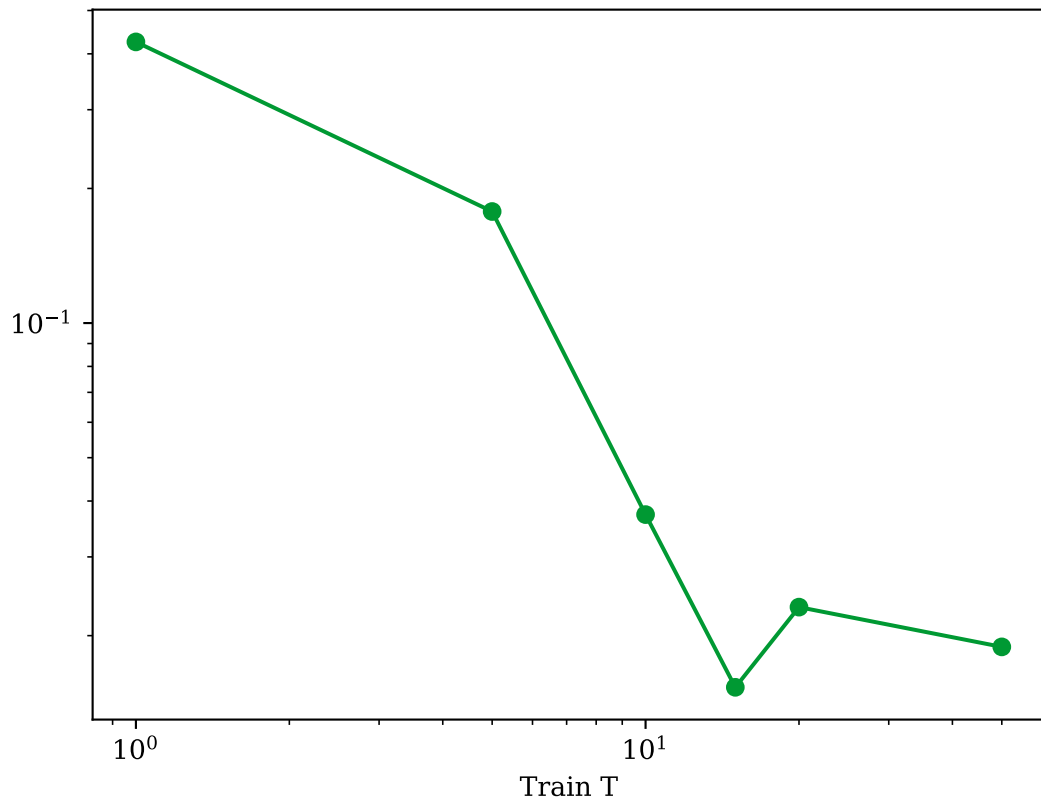
Validation points -> 3160

Validation T -> 10.0 s

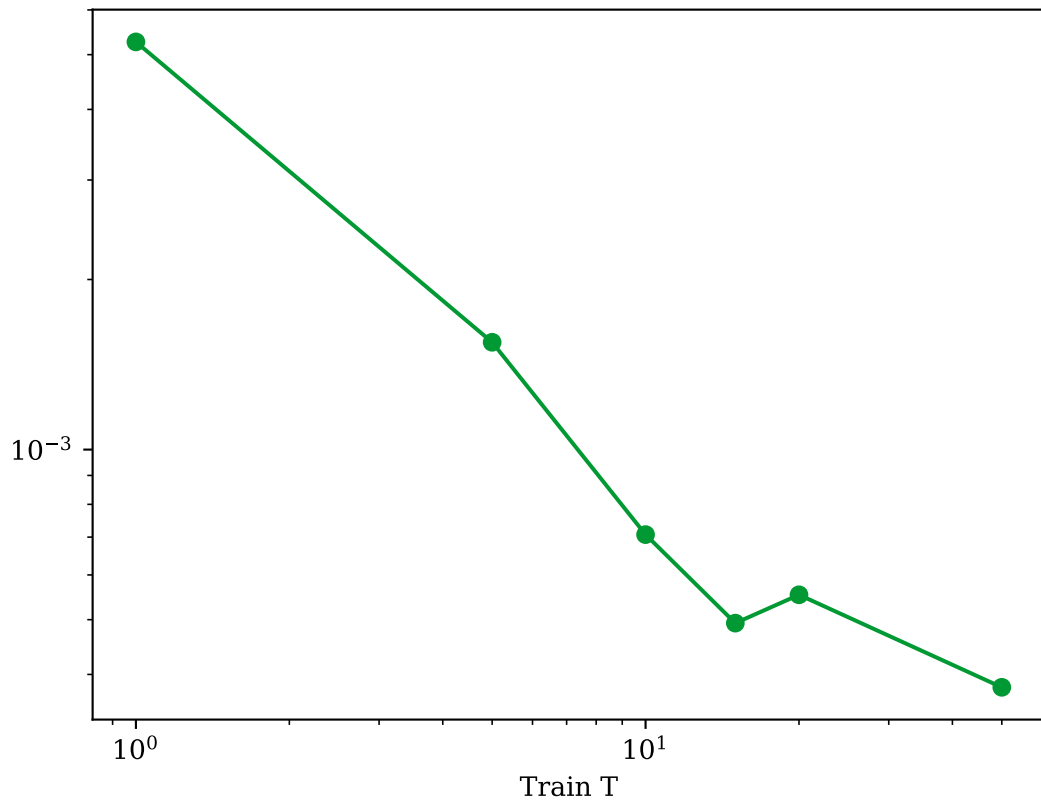
Test points -> 316

Test T -> 10.0 s

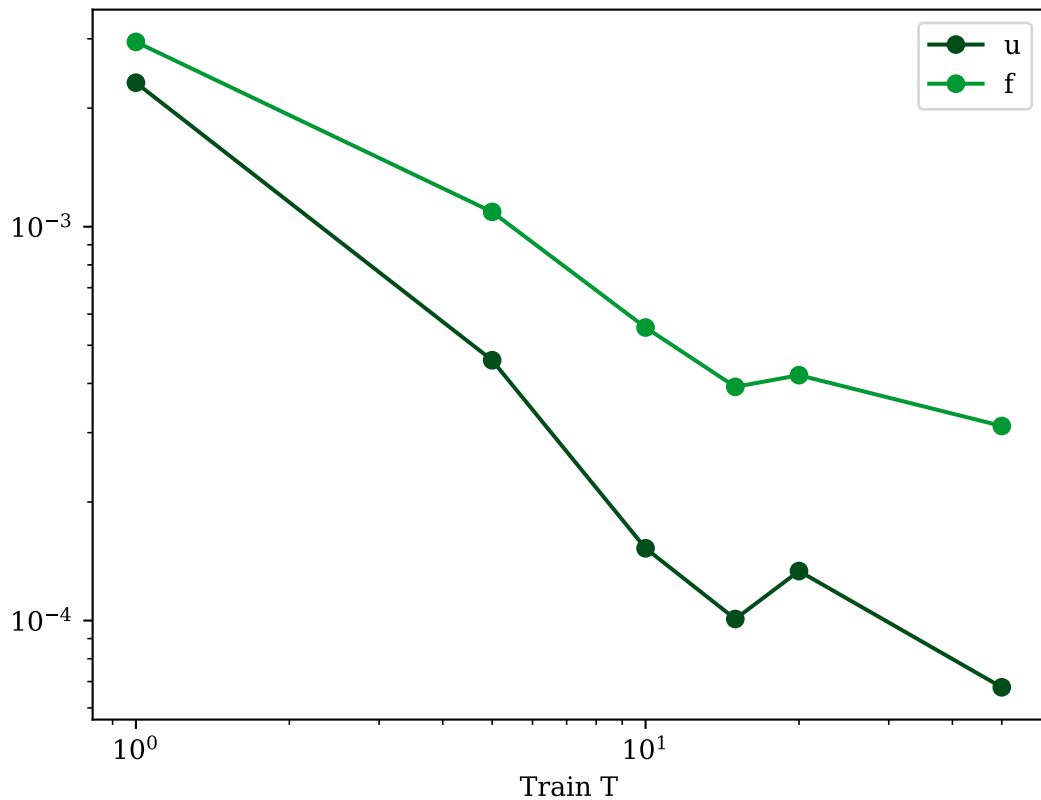
Validation L2 error



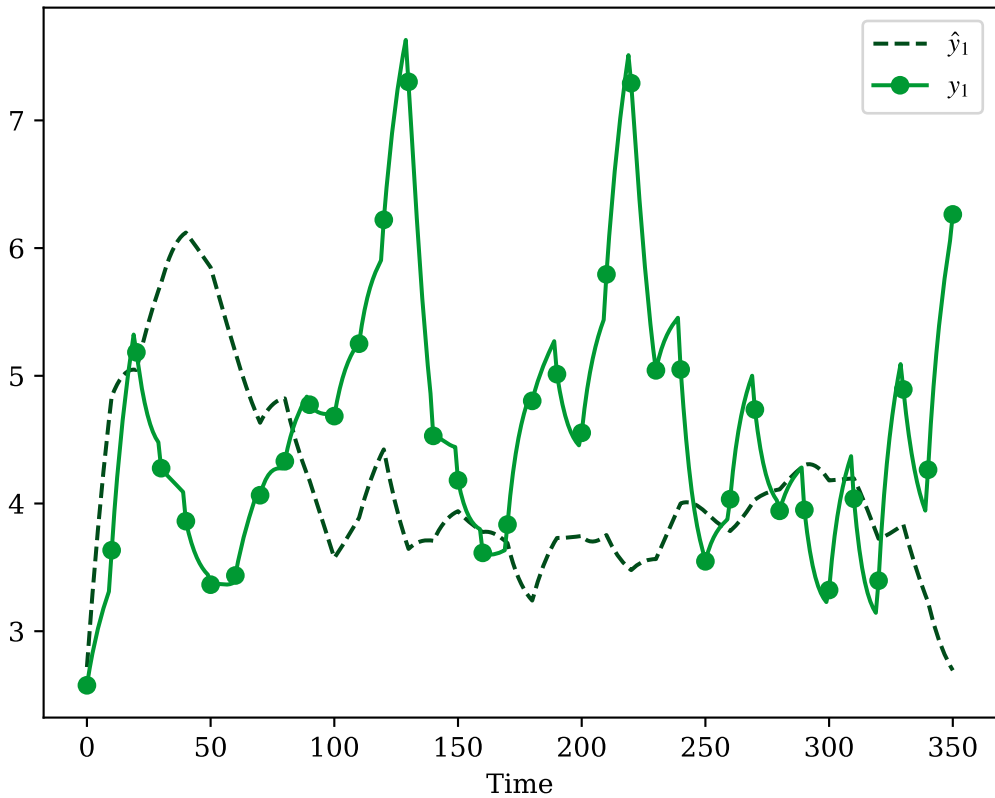
Train total L2 error



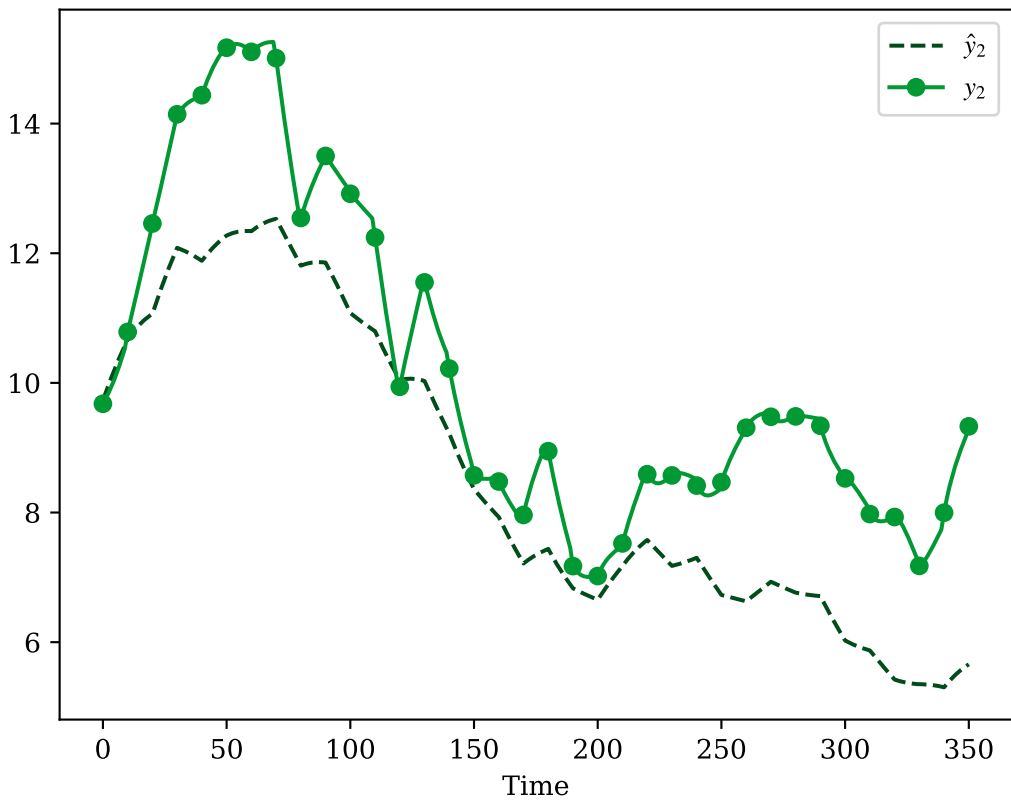
Train u and f L2 error



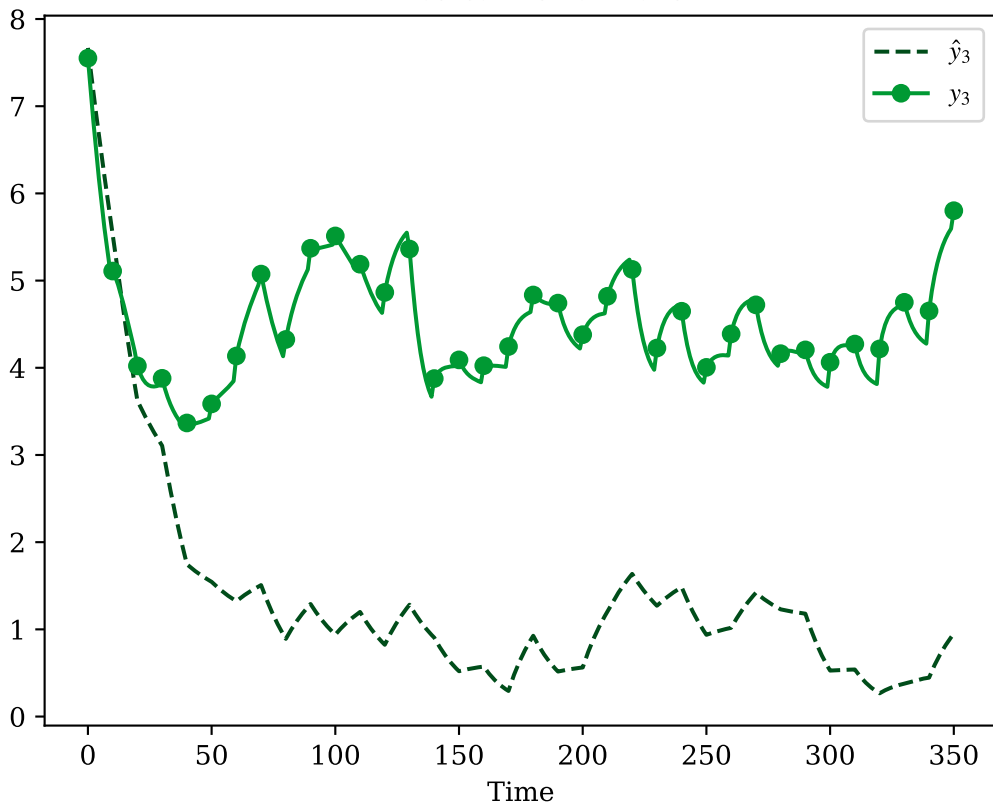
T = 1.0 s. MSE: 2.136



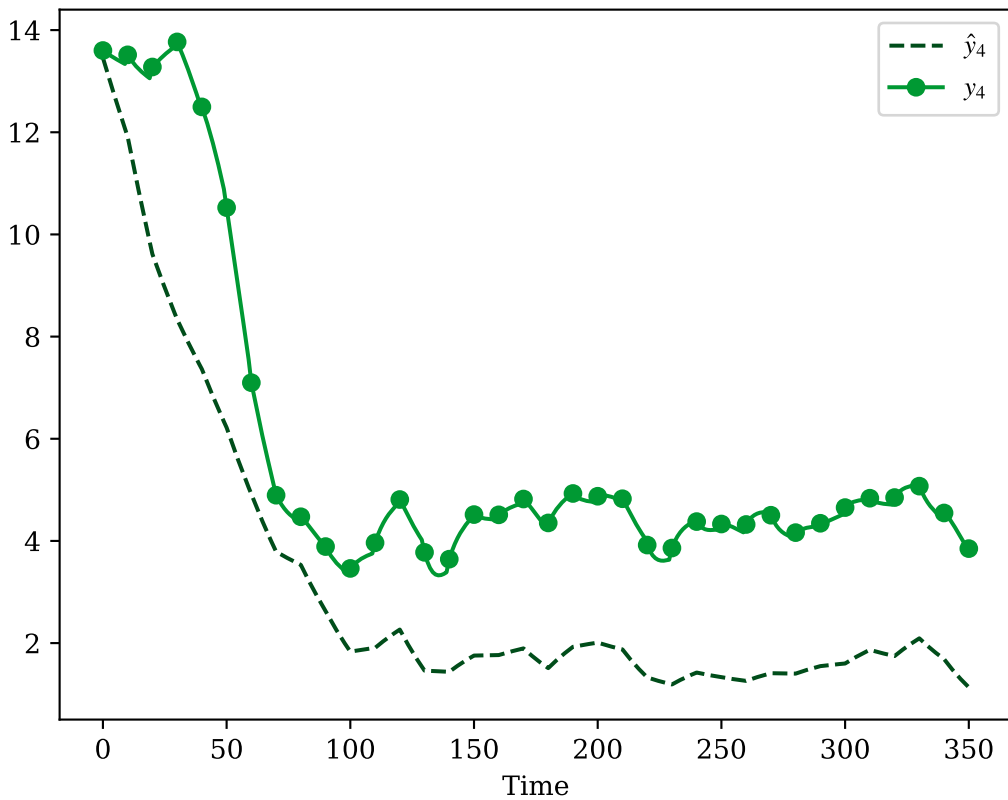
$T = 1.0$ s. MSE: 3.403



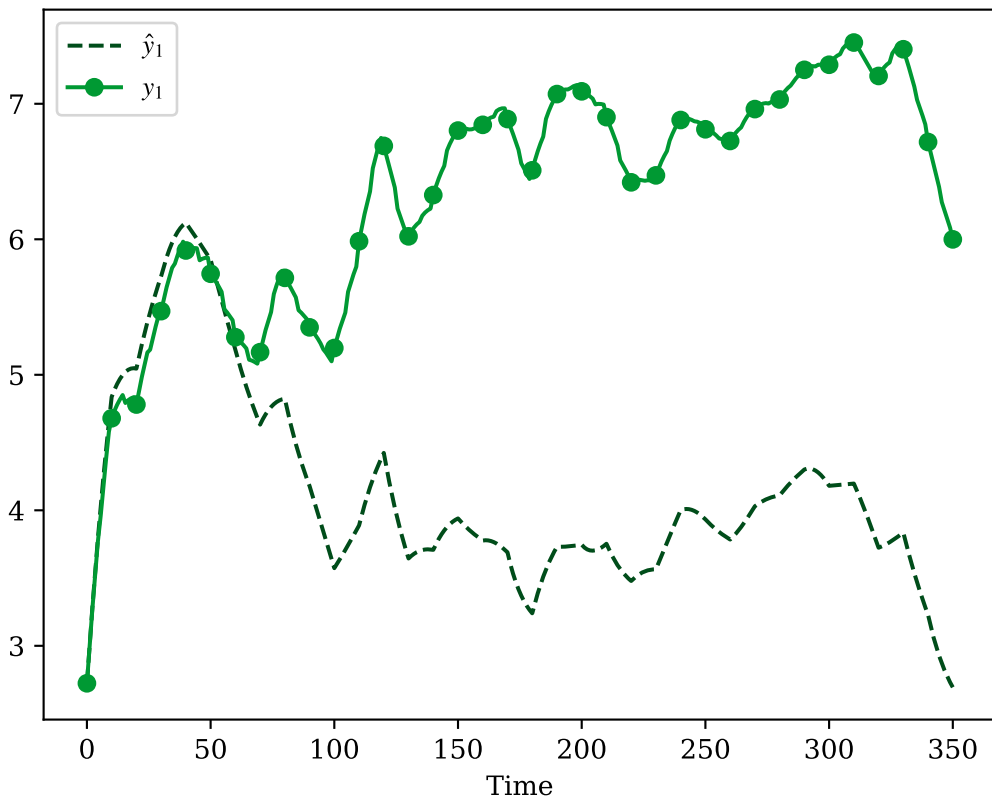
T = 1.0 s. MSE: 11.191



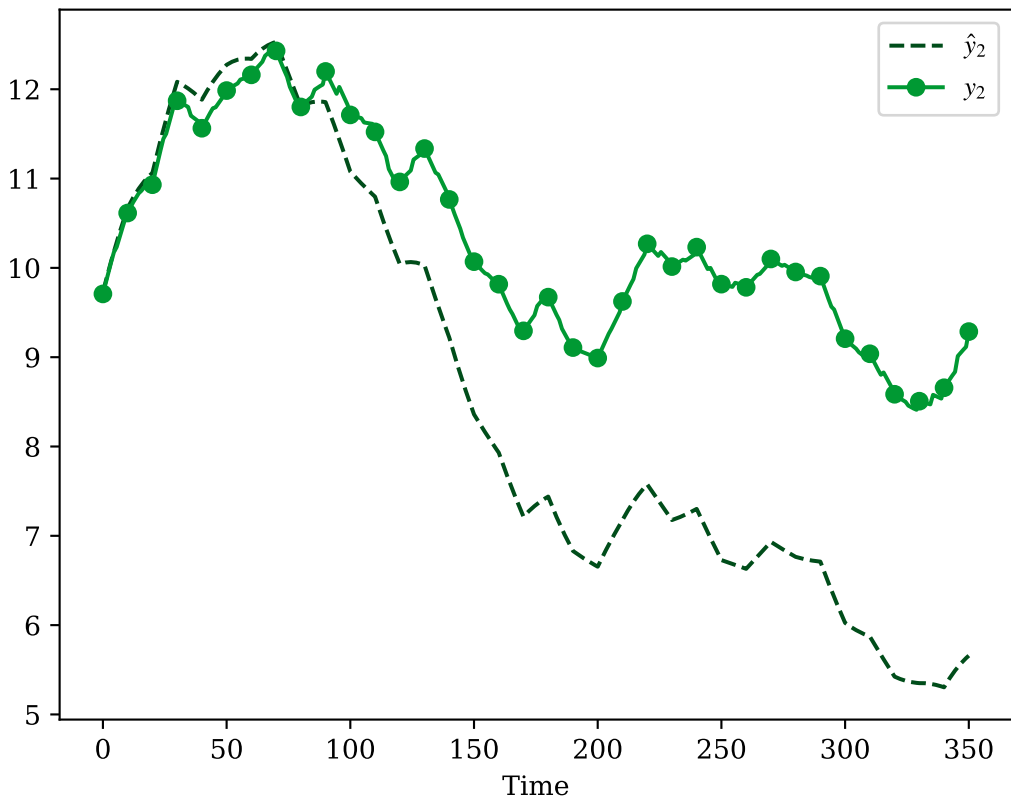
T = 1.0 s. MSE: 8.232



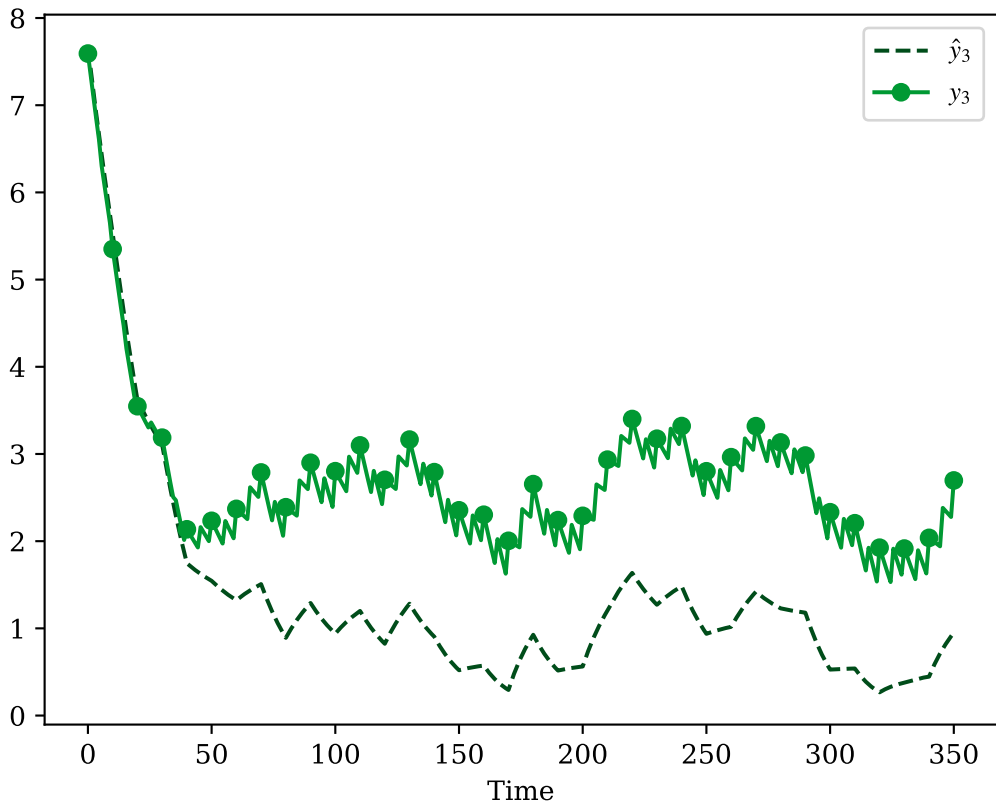
$T = 5.0$ s. MSE: 6.57



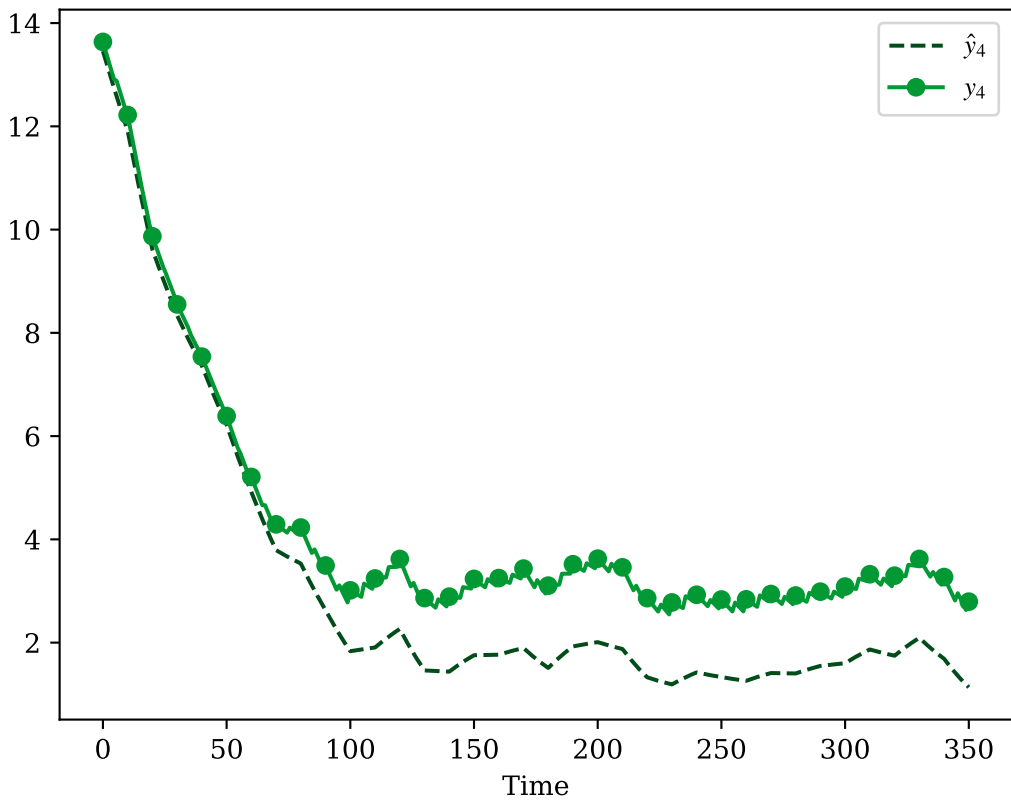
T = 5.0 s. MSE: 4.814



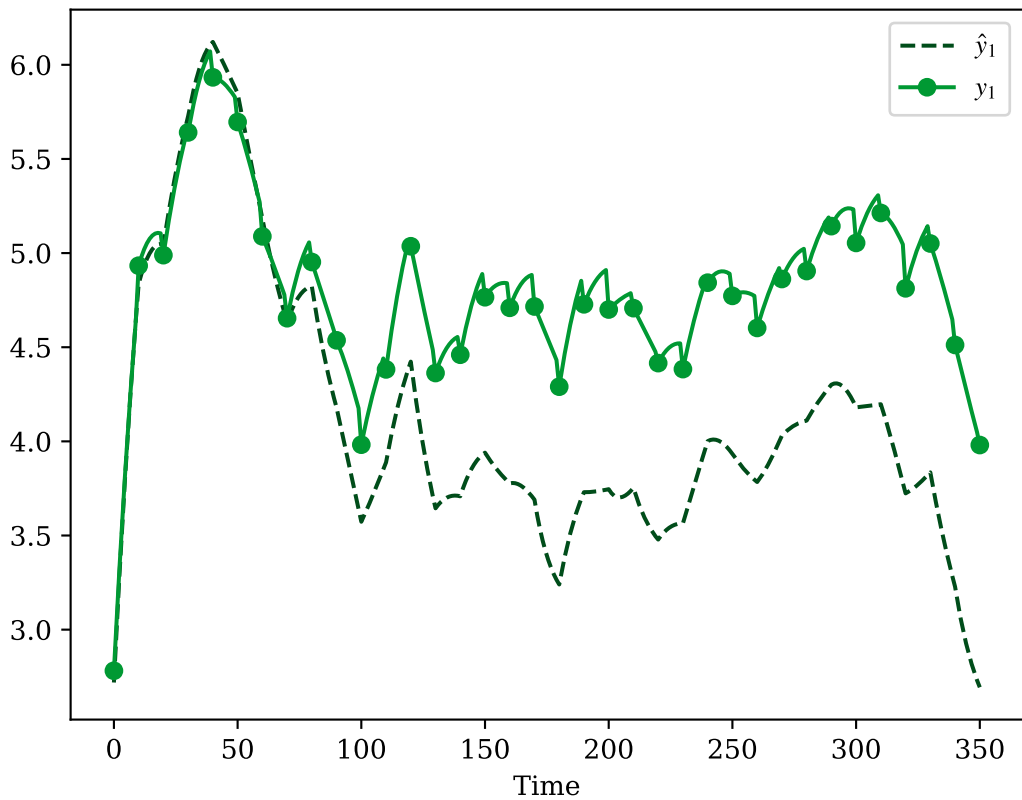
T = 5.0 s. MSE: 2.084



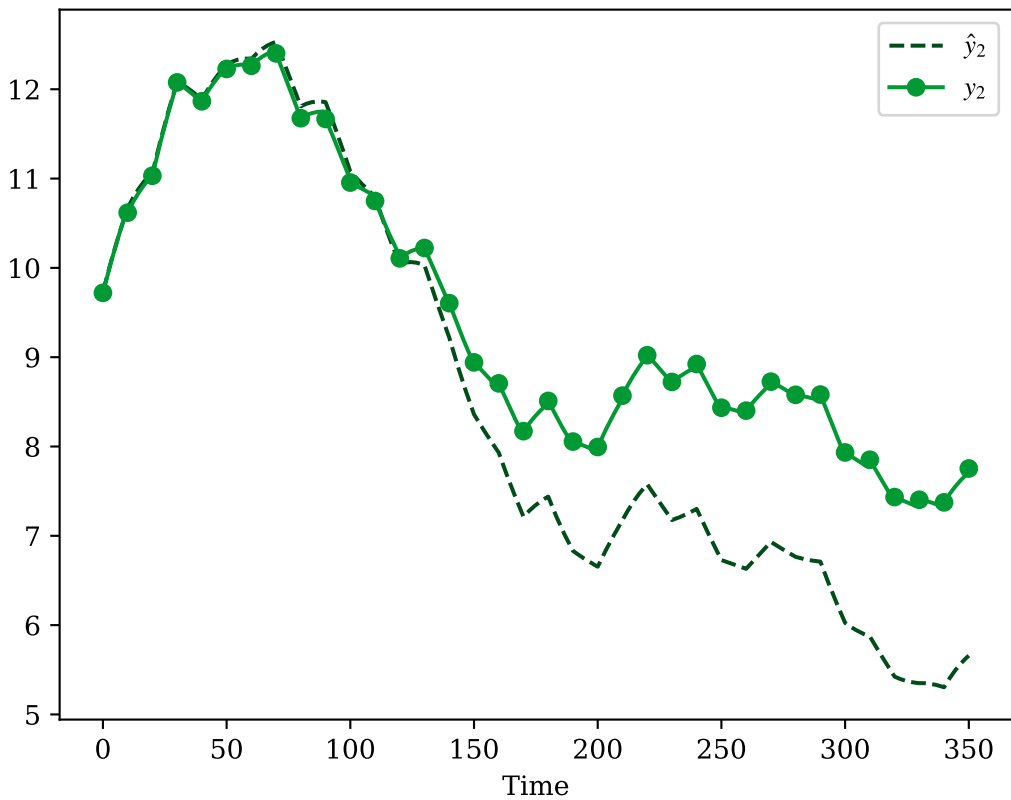
T = 5.0 s. MSE: 1.493



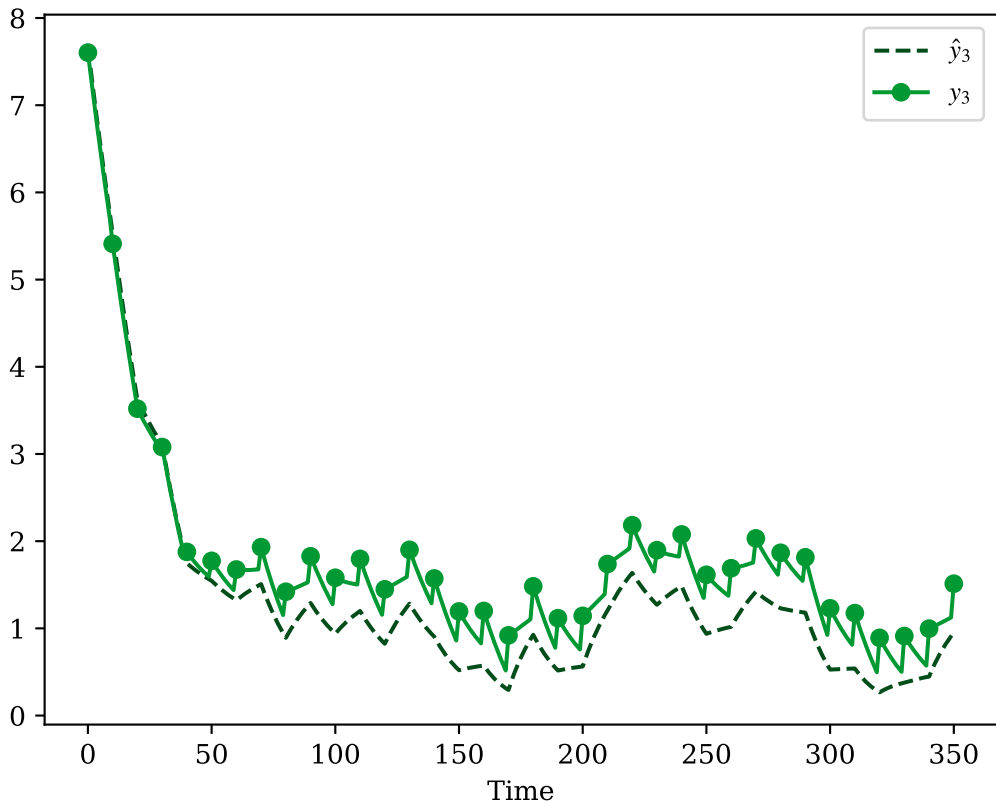
T = 10.0 s. MSE: 0.704



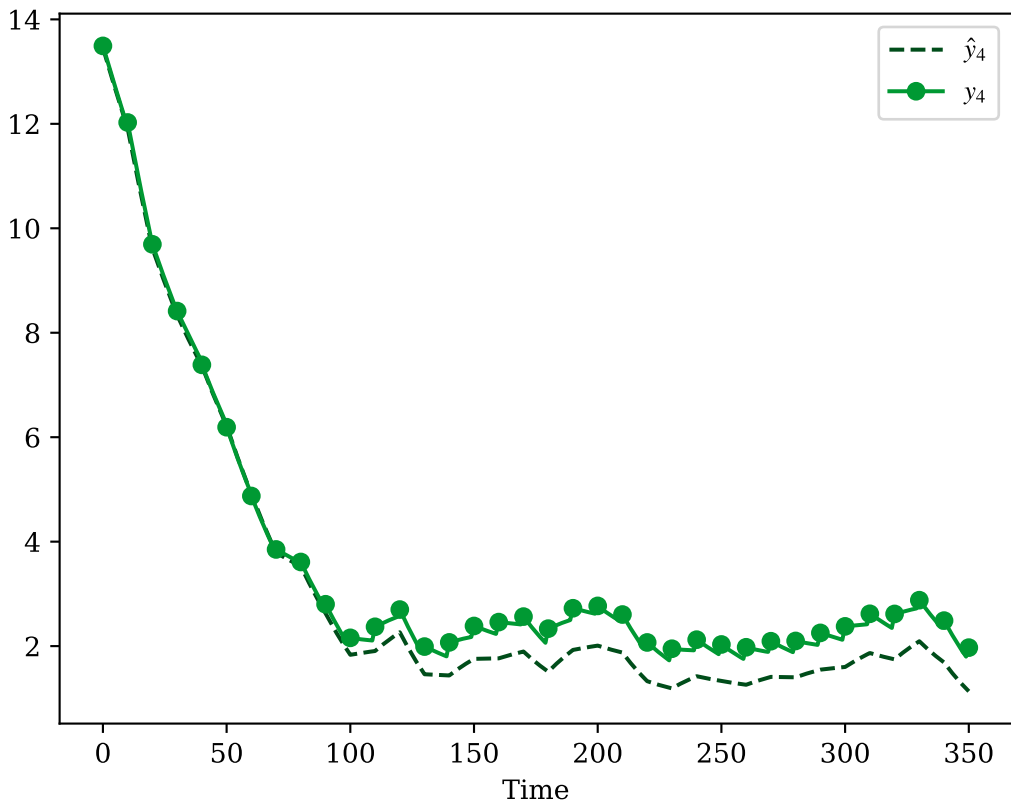
T = 10.0 s. MSE: 1.516



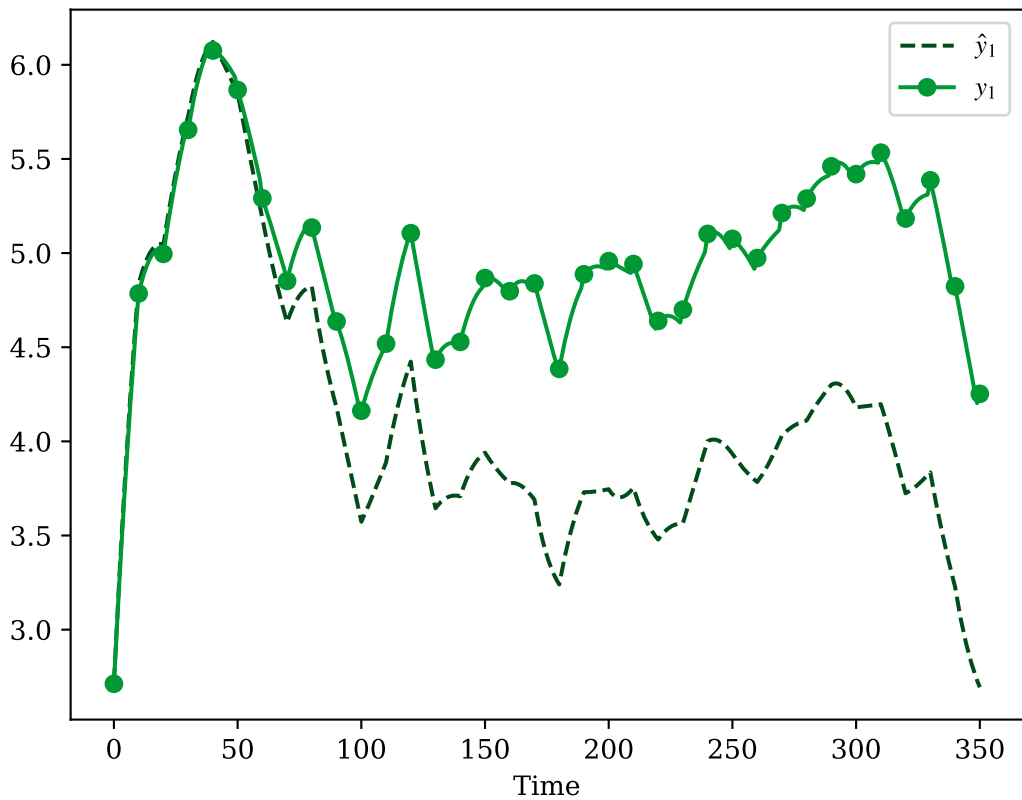
T = 10.0 s. MSE: 0.165



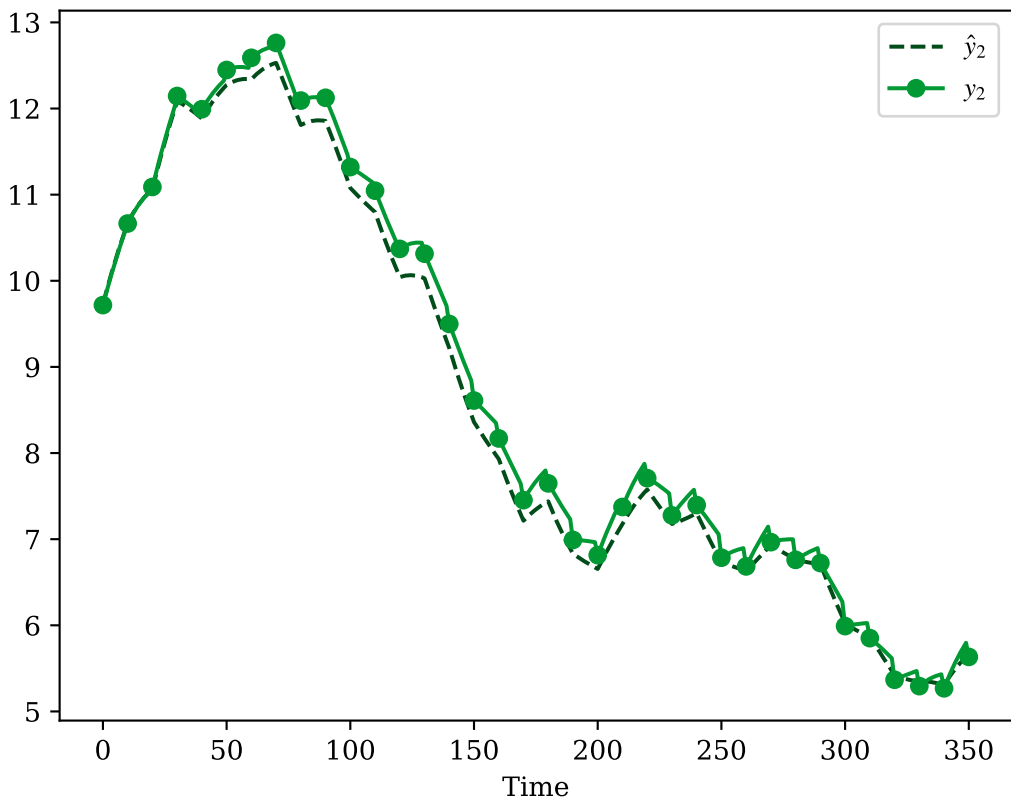
T = 10.0 s. MSE: 0.267



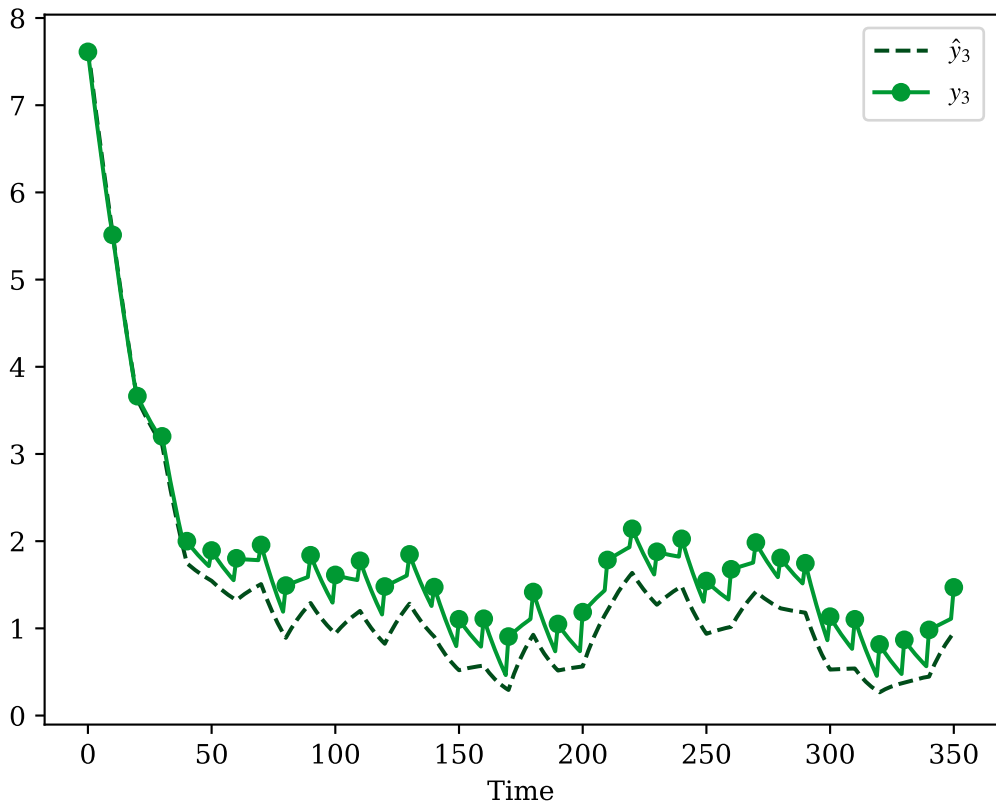
T = 15.0 s. MSE: 0.962



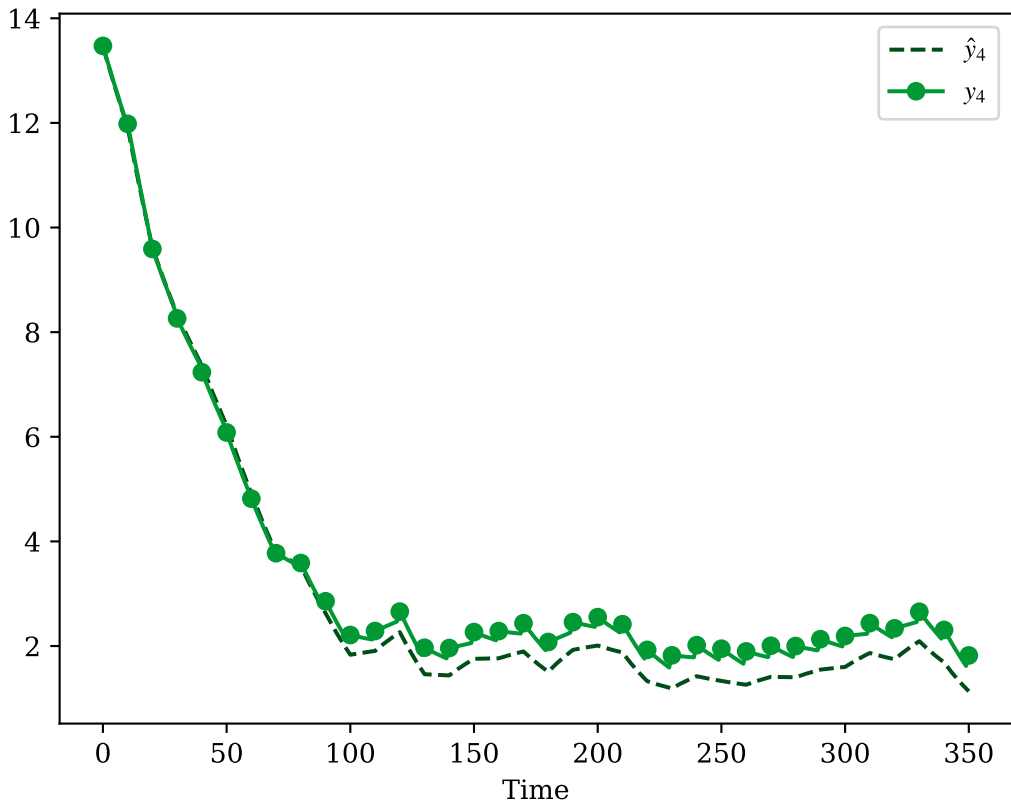
T = 15.0 s. MSE: 0.048



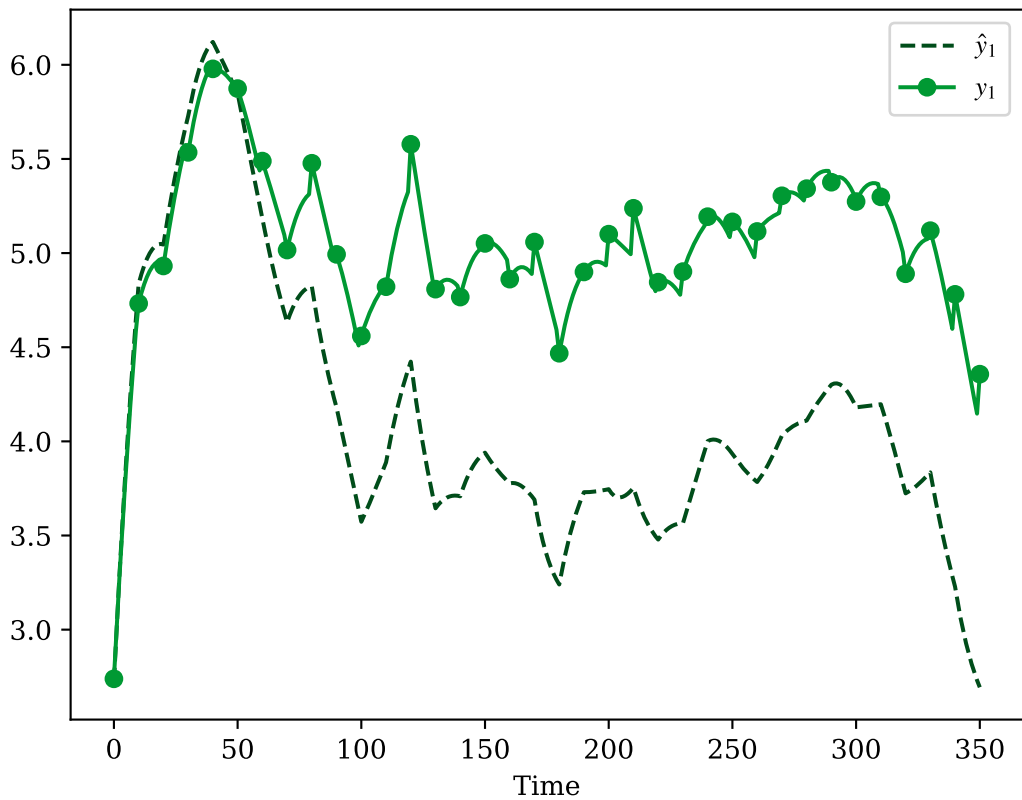
T = 15.0 s. MSE: 0.155



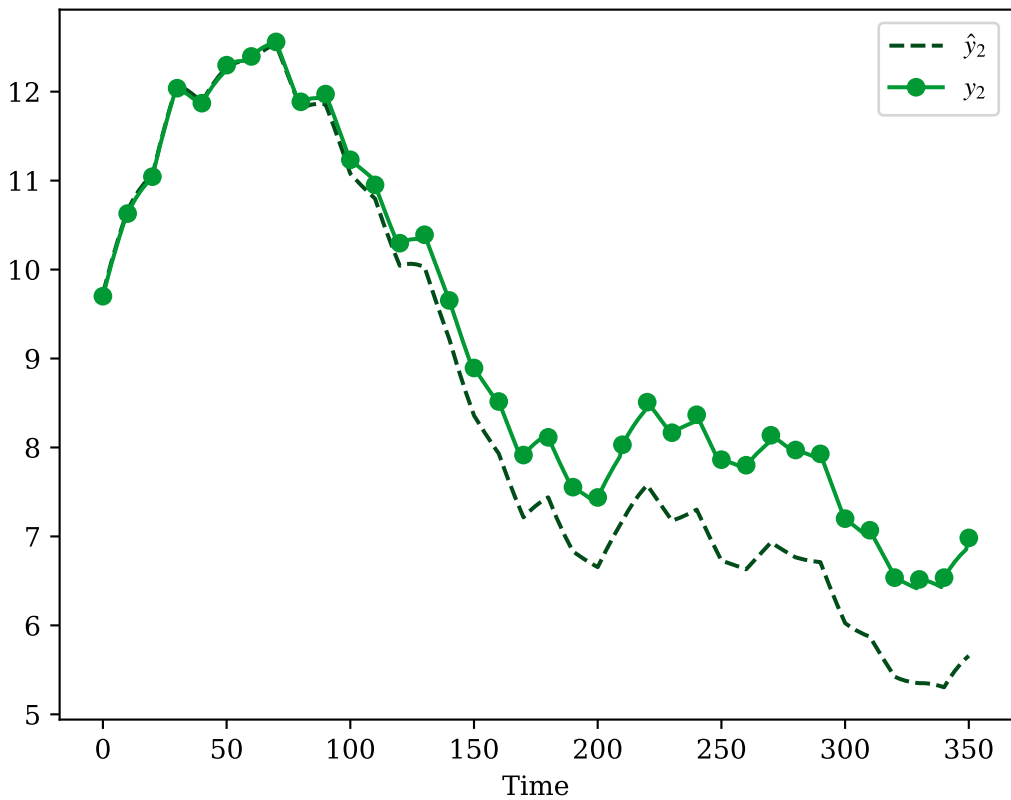
T = 15.0 s. MSE: 0.156



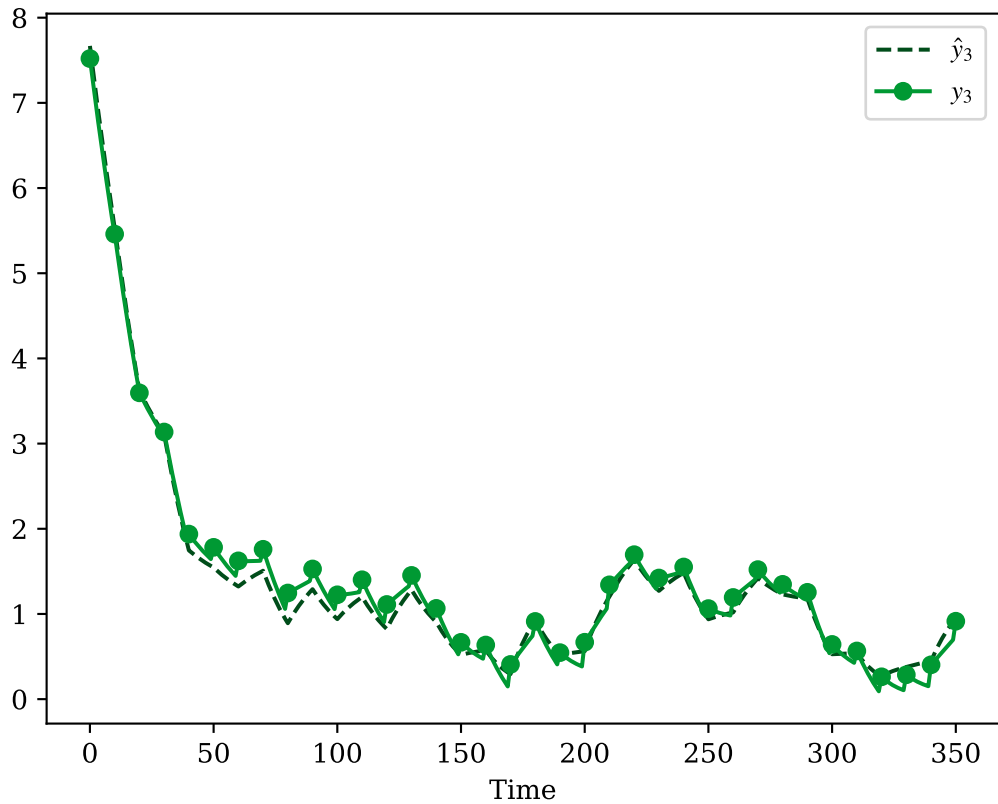
T = 20.0 s. MSE: 1.121



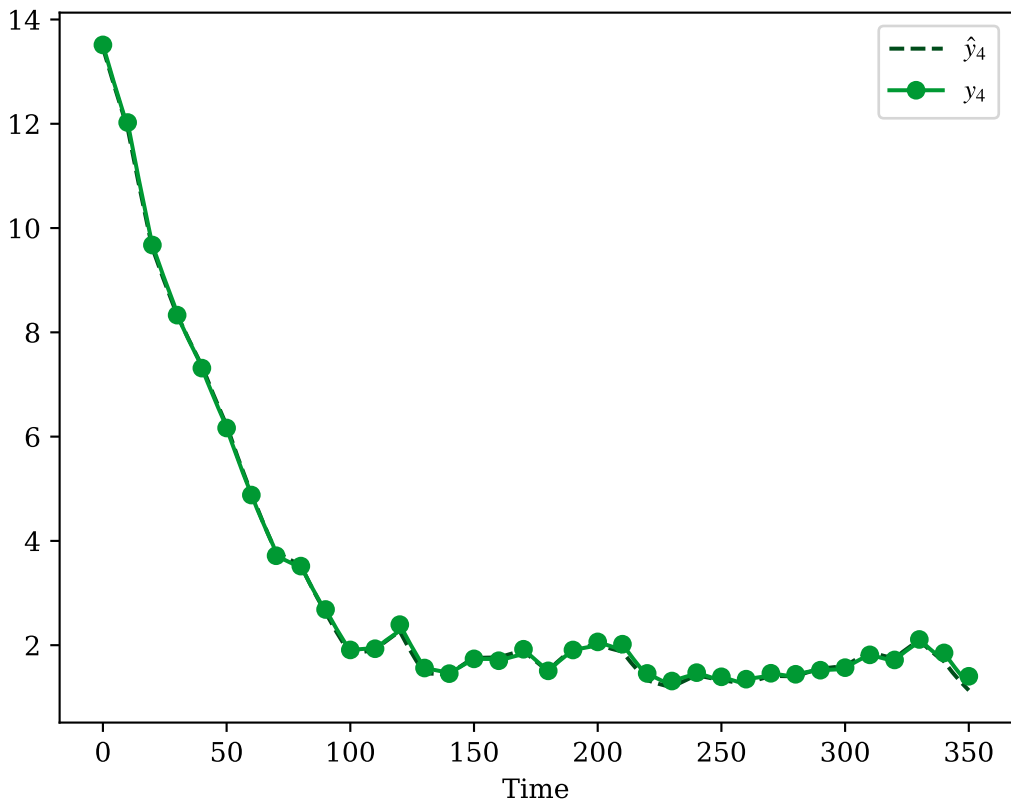
T = 20.0 s. MSE: 0.596



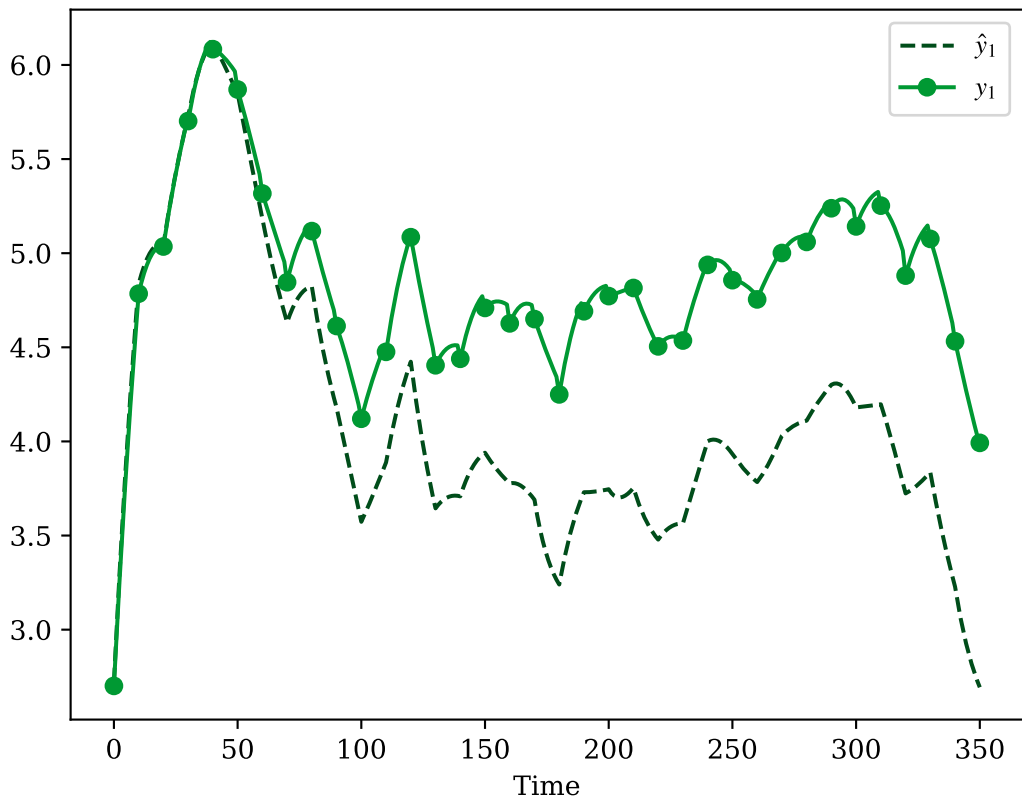
T = 20.0 s. MSE: 0.016



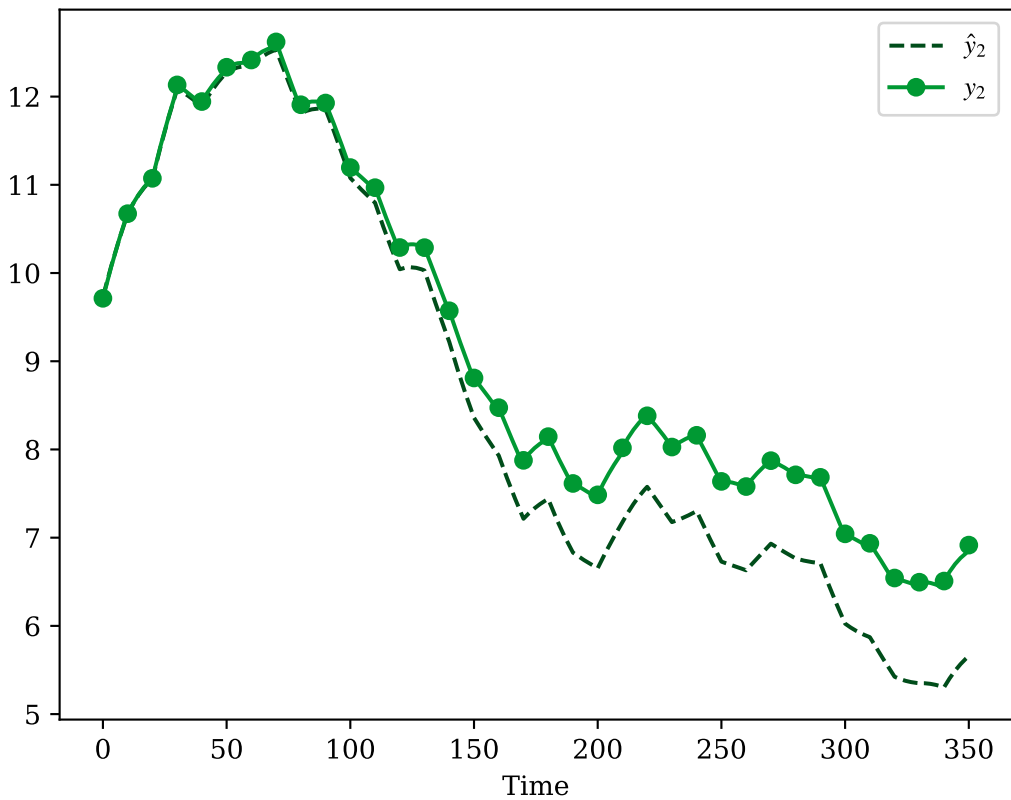
T = 20.0 s. MSE: 0.004



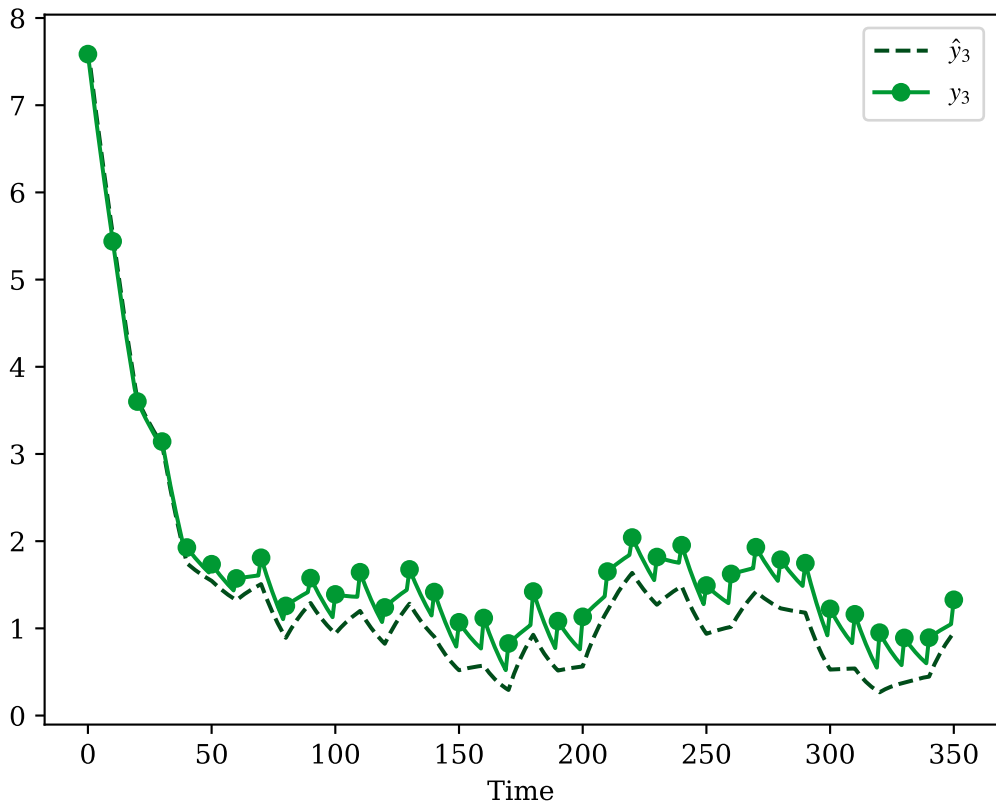
T = 50.0 s. MSE: 0.736



T = 50.0 s. MSE: 0.49



T = 50.0 s. MSE: 0.115



T = 50.0 s. MSE: 0.026

