

Neural network's T test:

Test duration -> 7:53:51.808964

Adam epochs -> 500

Max L-BFGS iterations -> 2000

Neural network's structure -> 4 hidden layers of 20 neurons

Train Nu -> 1000

Train Nf -> 100000

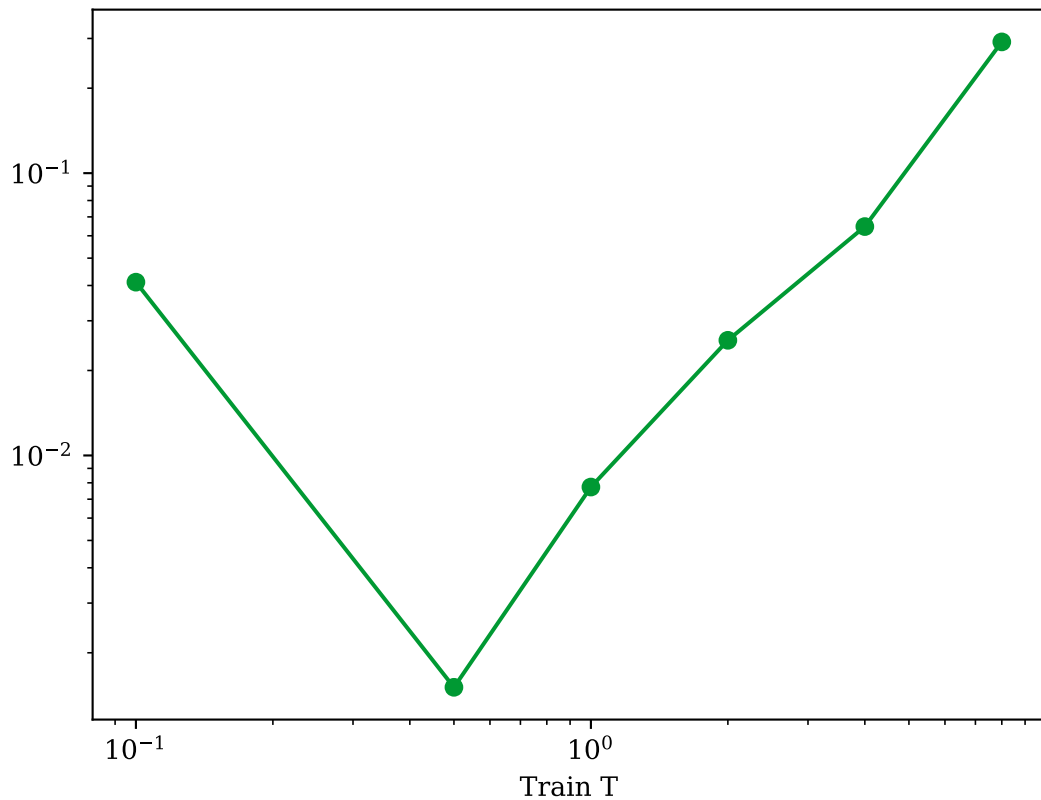
Validation points -> 1810

Validation T -> 0.5 s

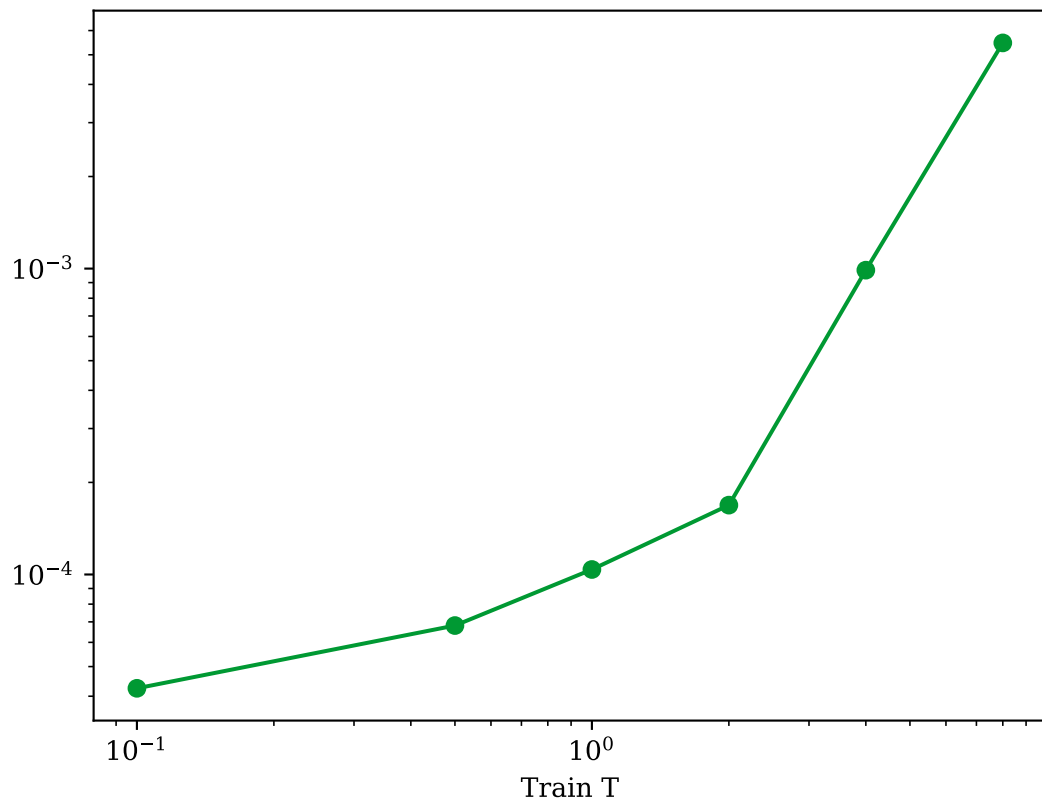
Test points -> 181

Test T -> 0.5 s

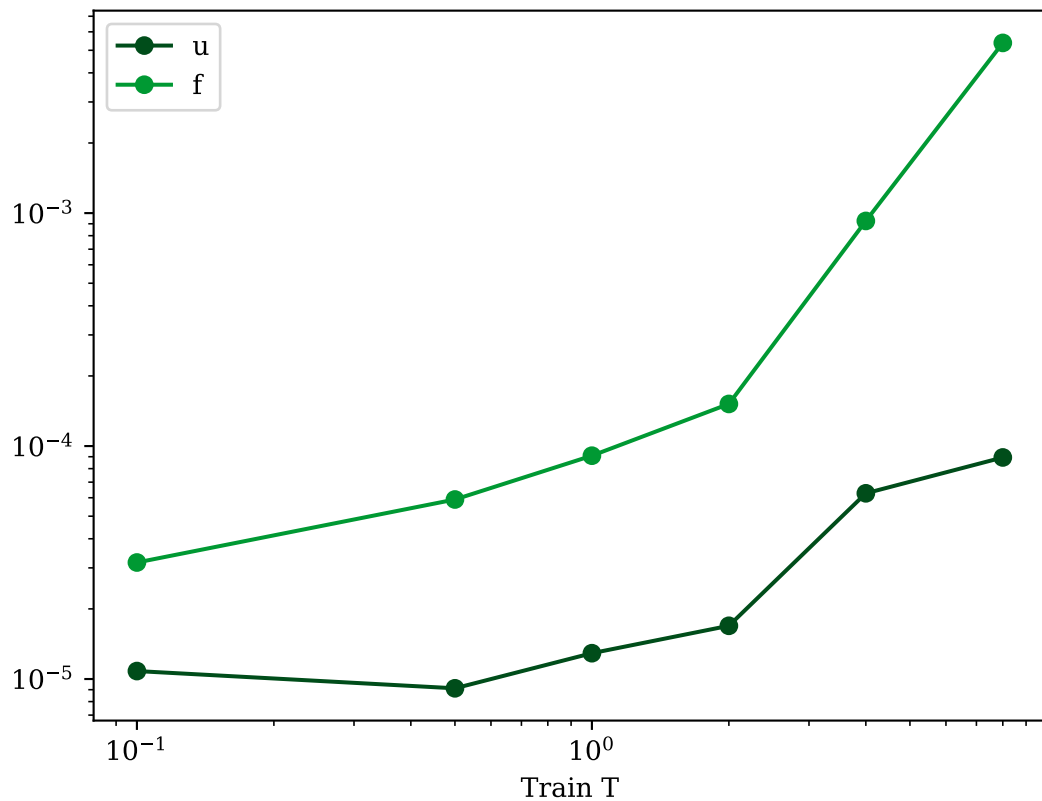
Validation L2 error



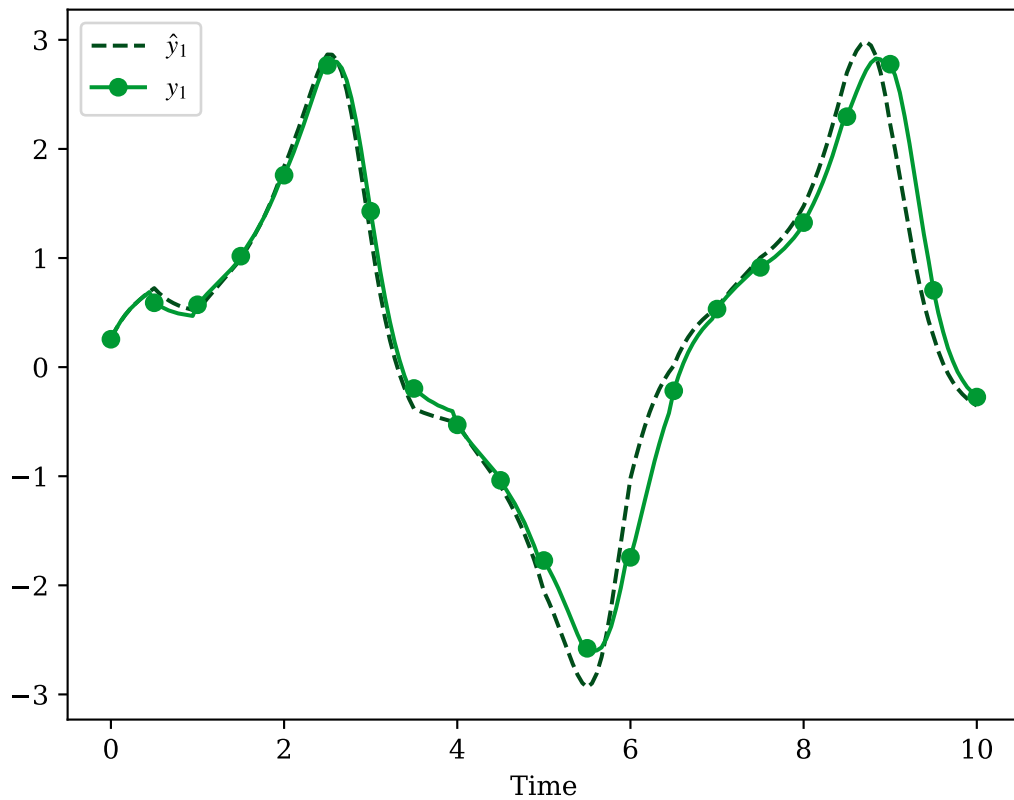
Train total L2 error



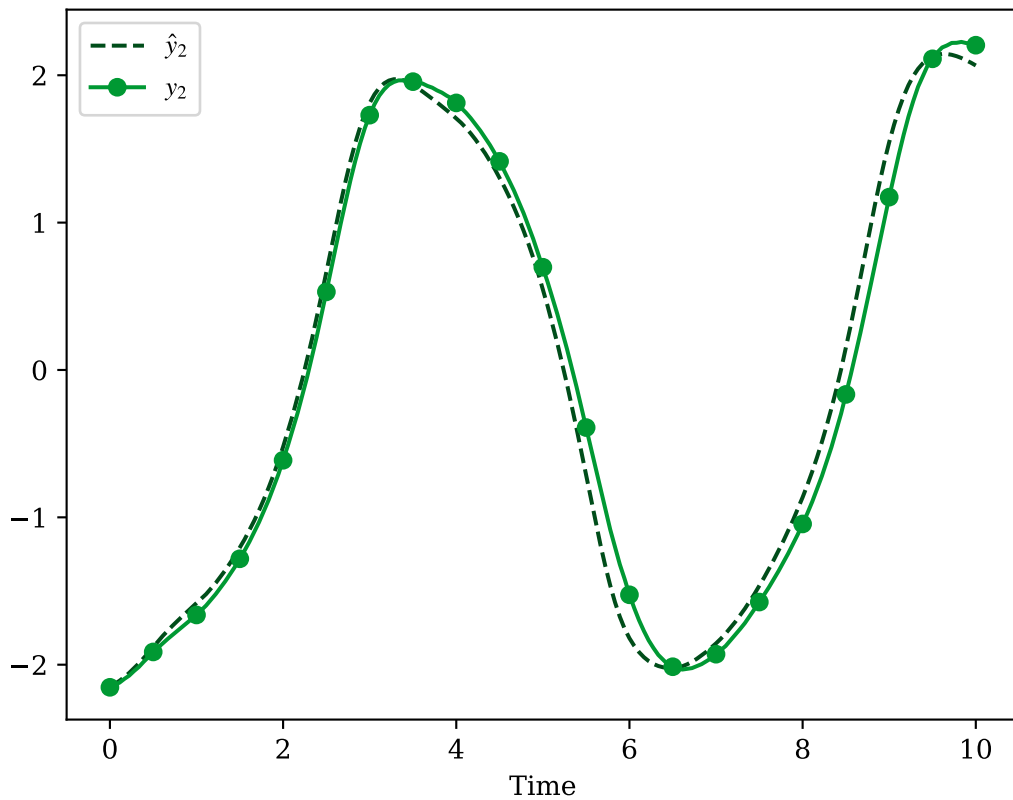
Train u and f L2 error



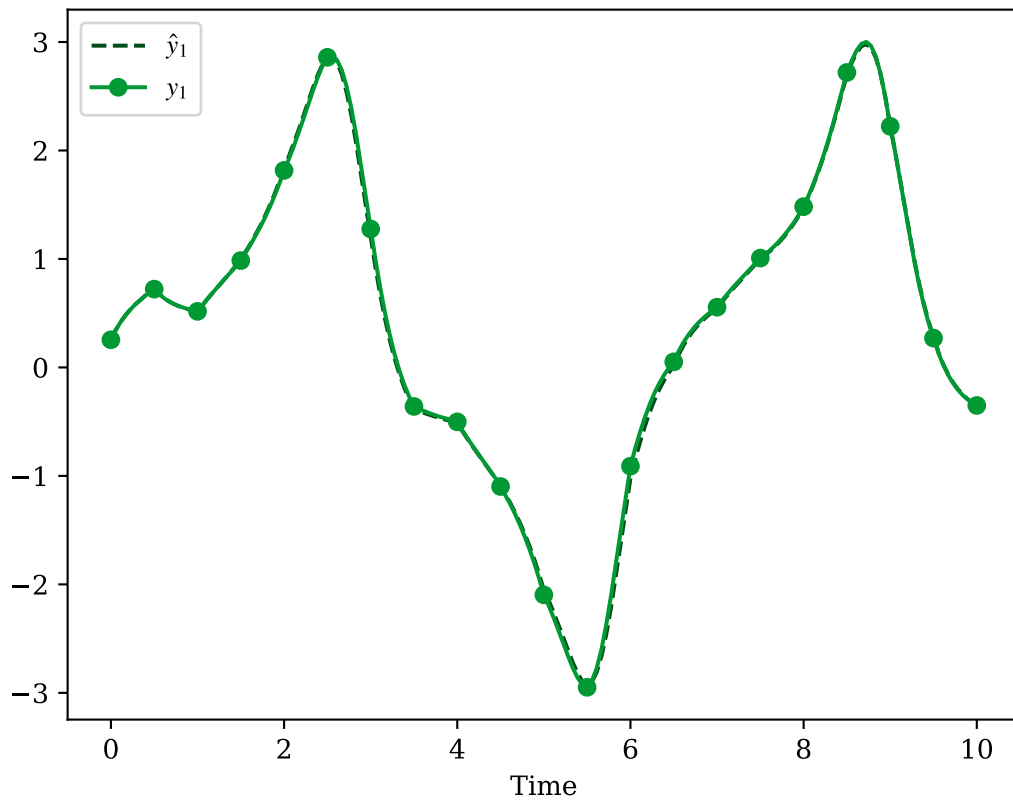
$T = 0.1$ s. MSE: 0.07



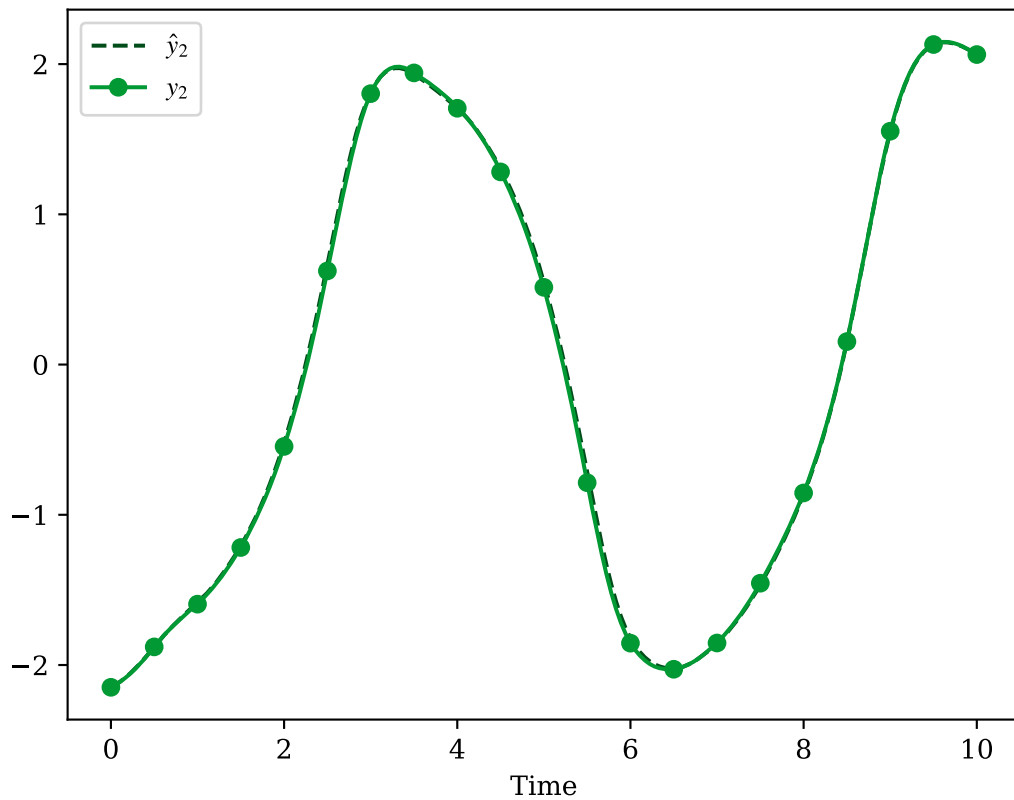
$T = 0.1$ s. MSE: 0.029



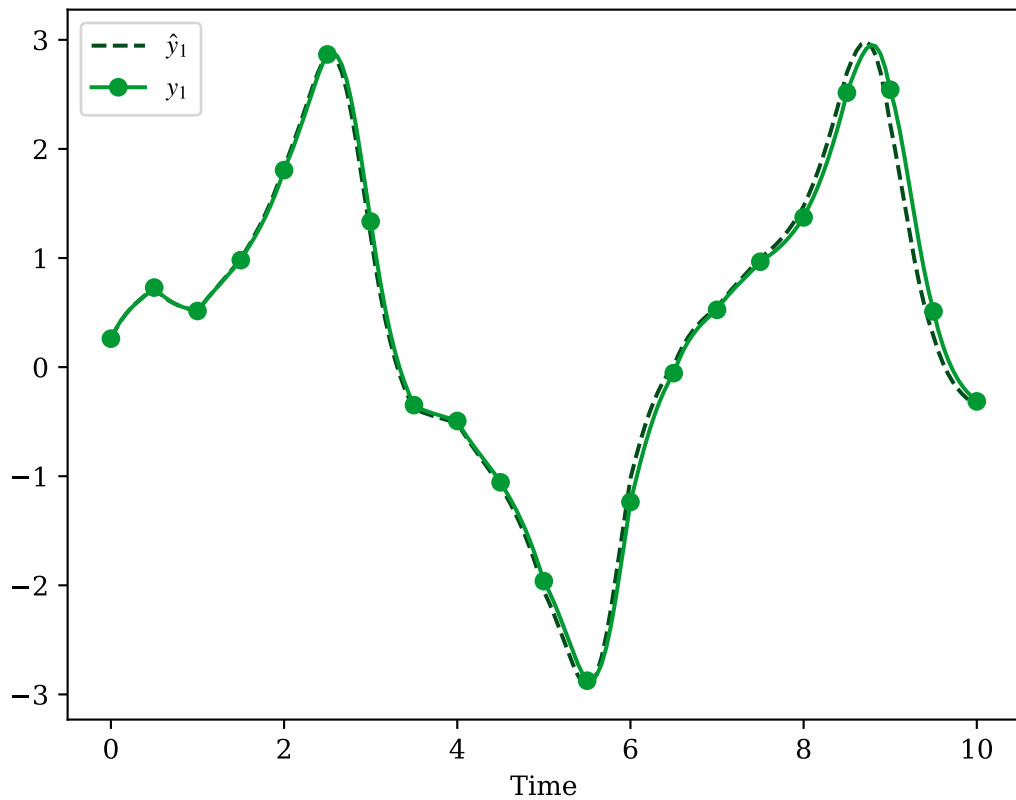
$T = 0.5$ s. MSE: 0.001



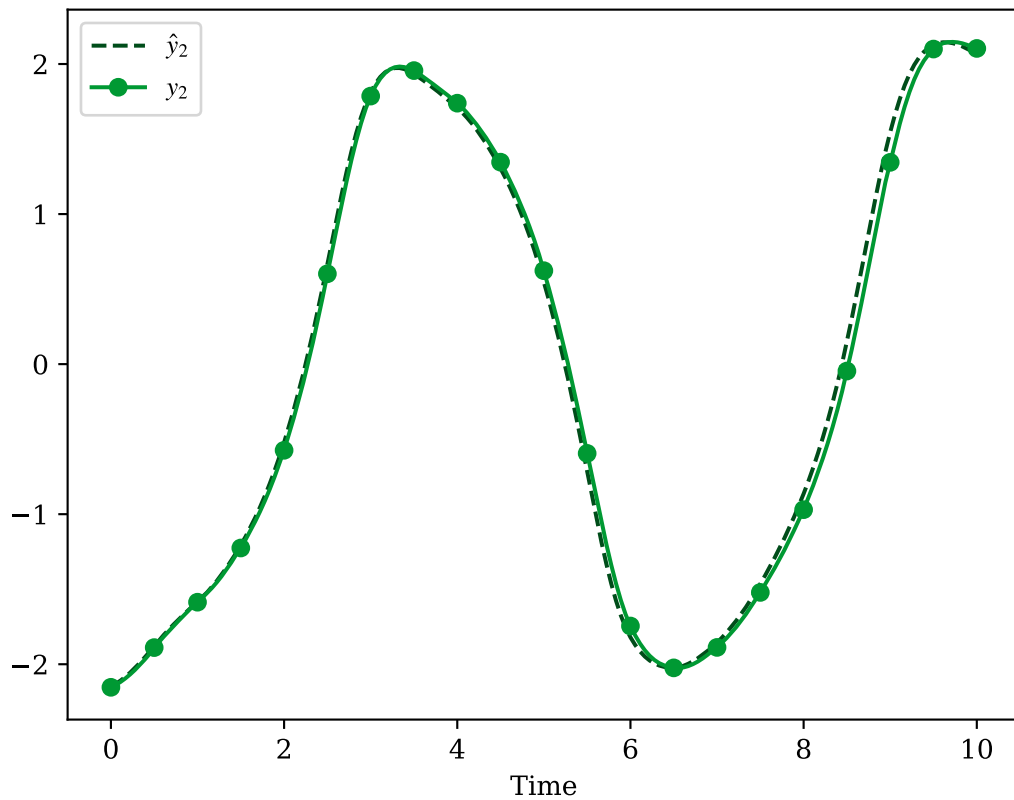
$T = 0.5$ s. MSE: 0.001



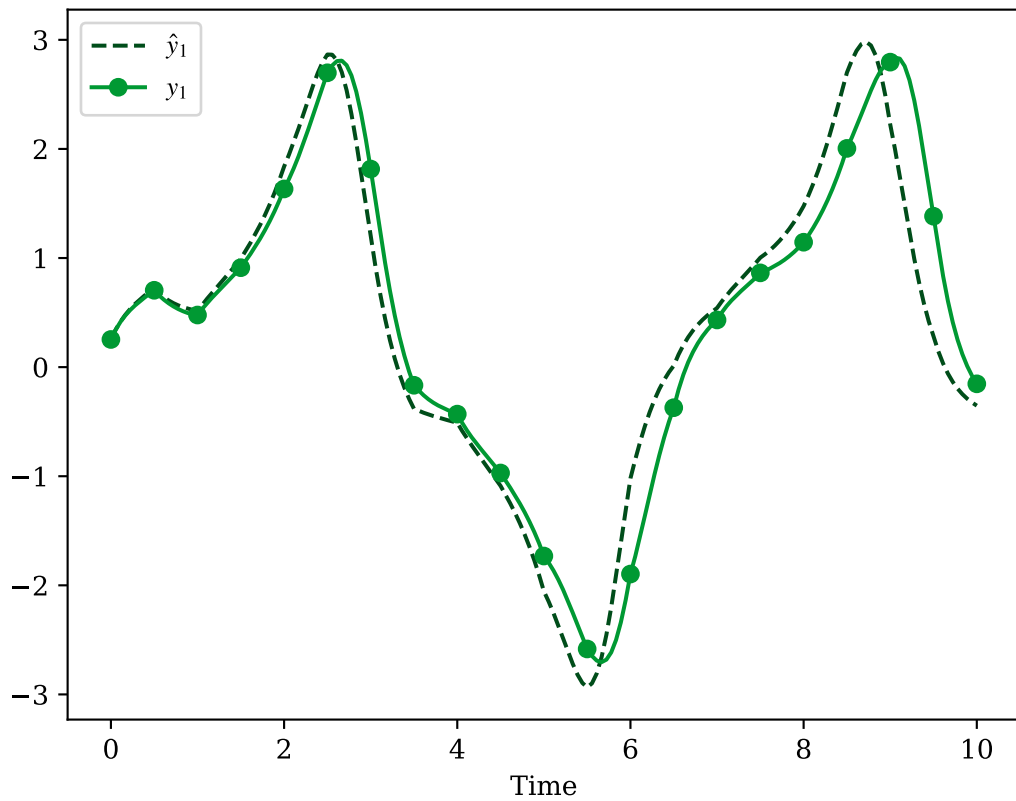
$T = 1.0$ s. MSE: 0.015



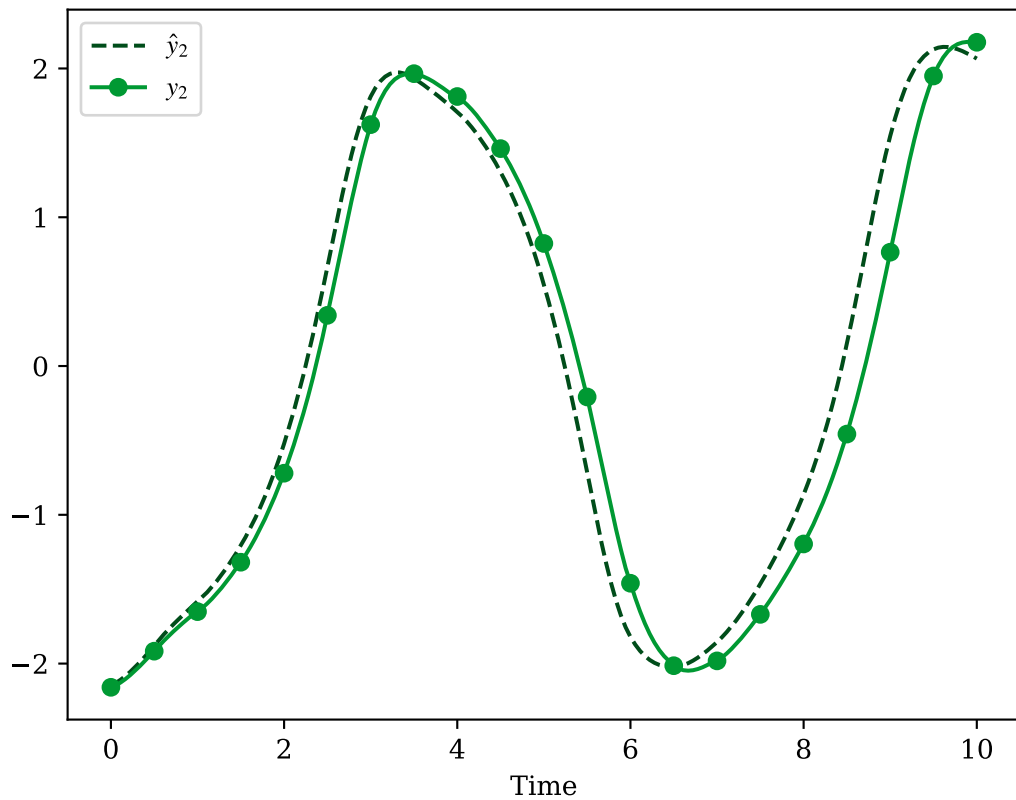
$T = 1.0$ s. MSE: 0.007



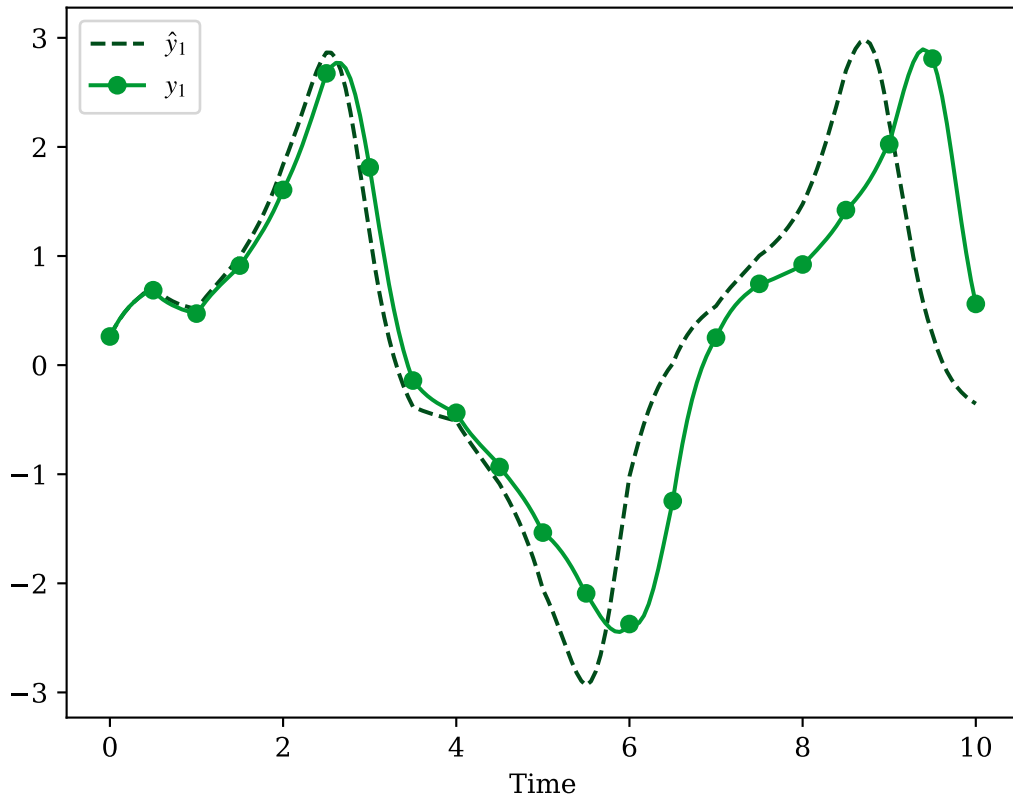
$T = 2.0$ s. MSE: 0.199



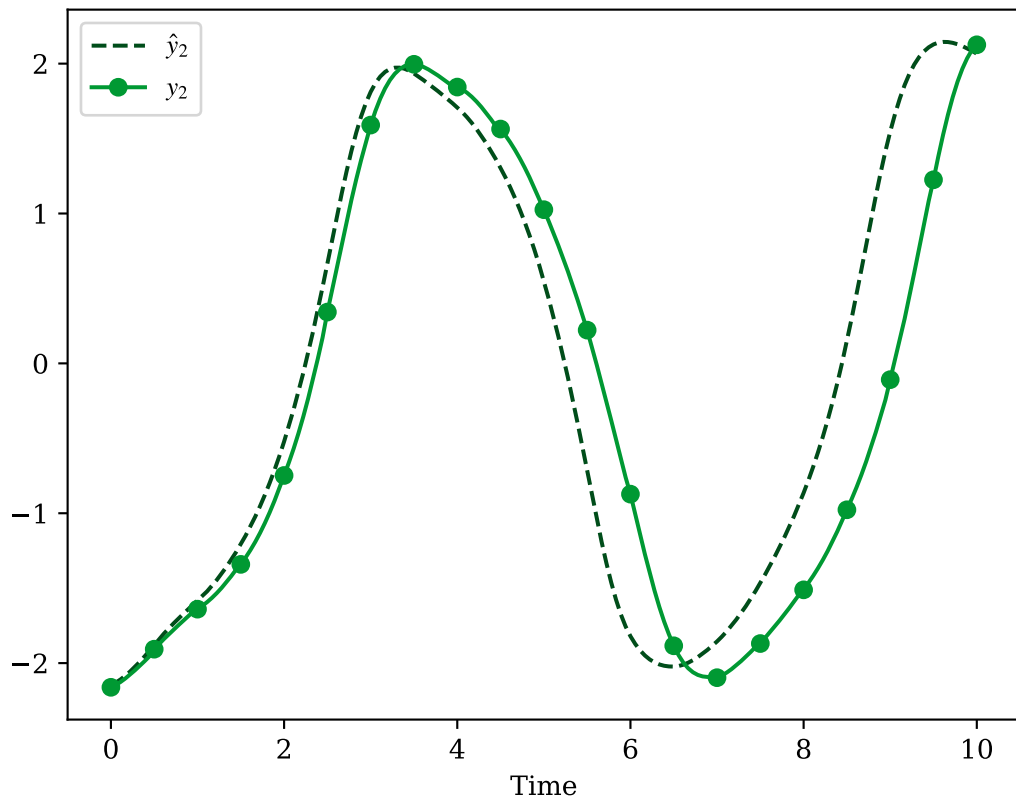
$T = 2.0$ s. MSE: 0.093



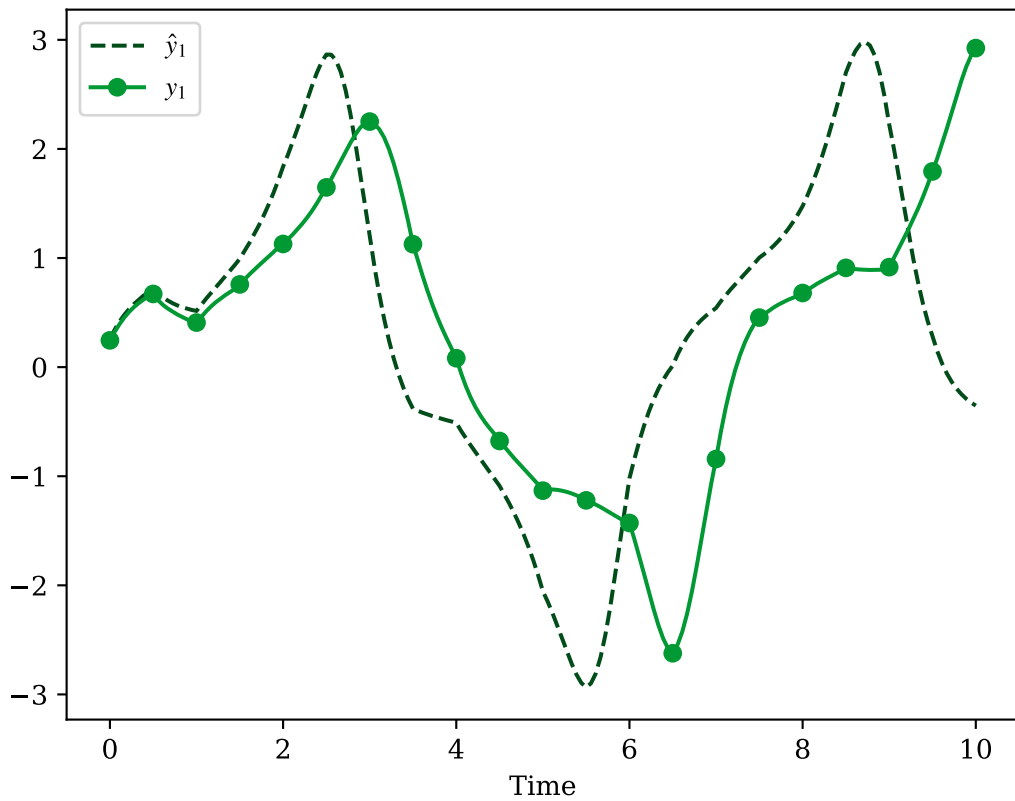
$T = 4.0$ s. MSE: 0.687



T = 4.0 s. MSE: 0.386



T = 8.0 s. MSE: 1.592



$T = 8.0$ s. MSE: 1.498

