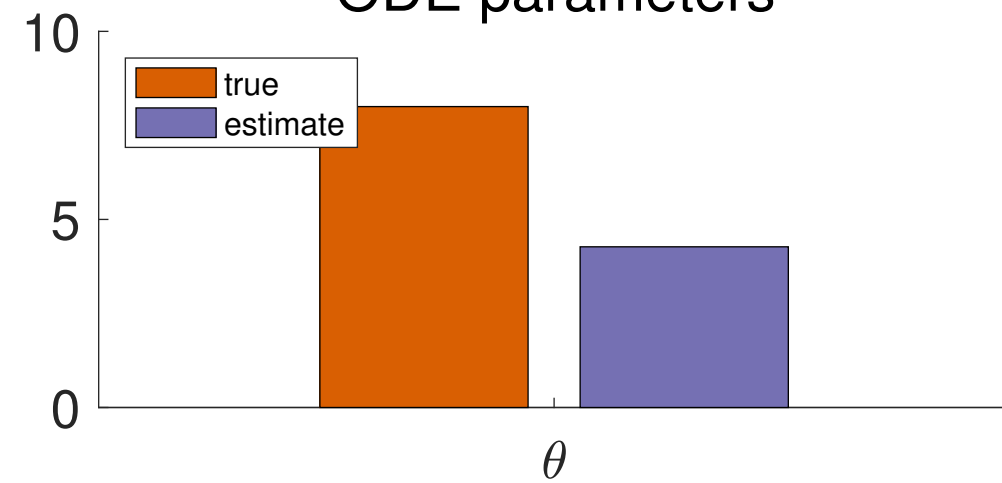
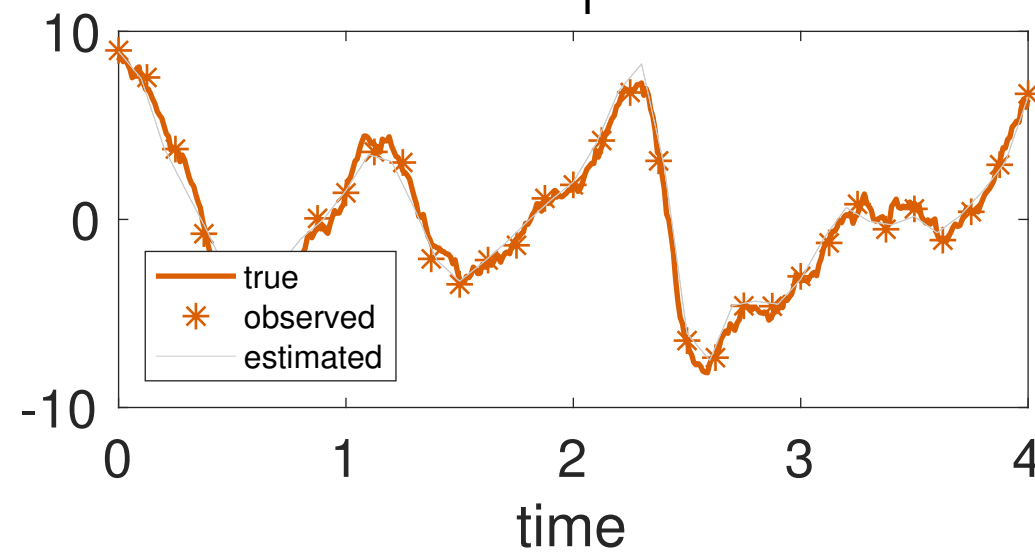
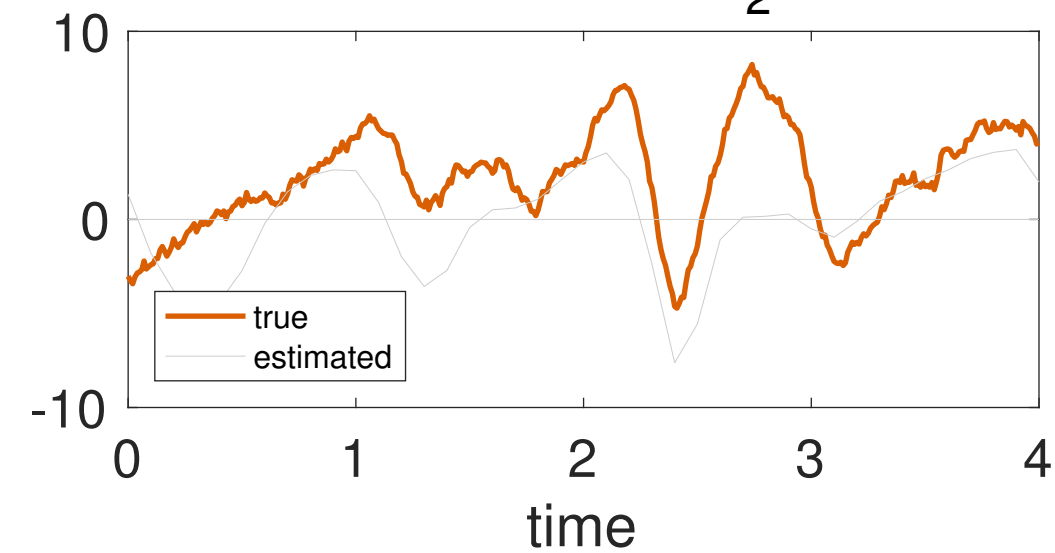
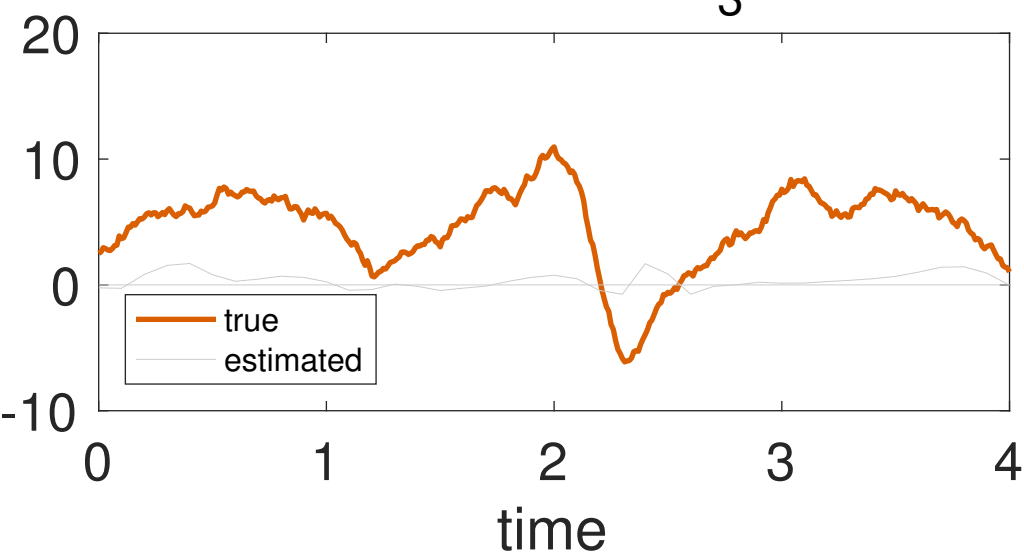
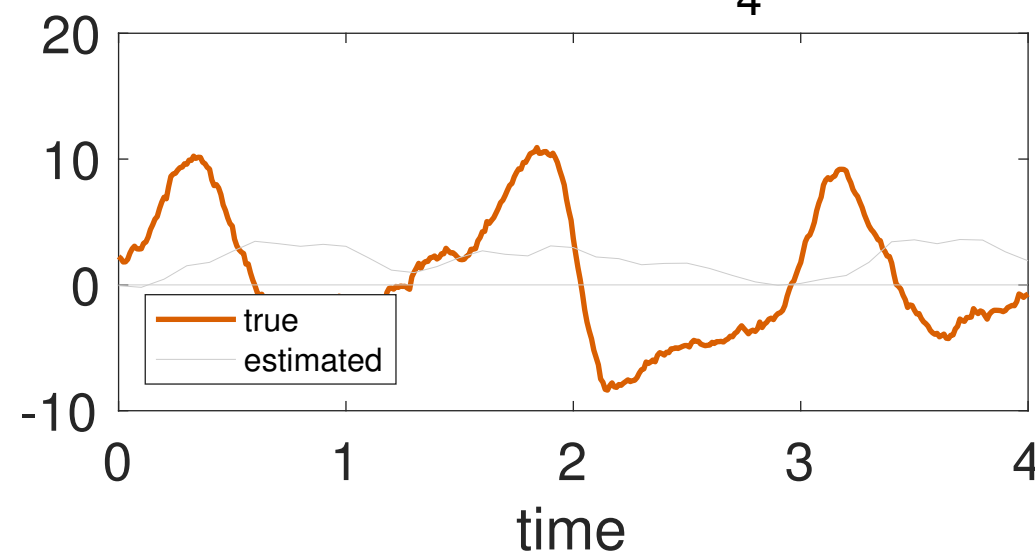
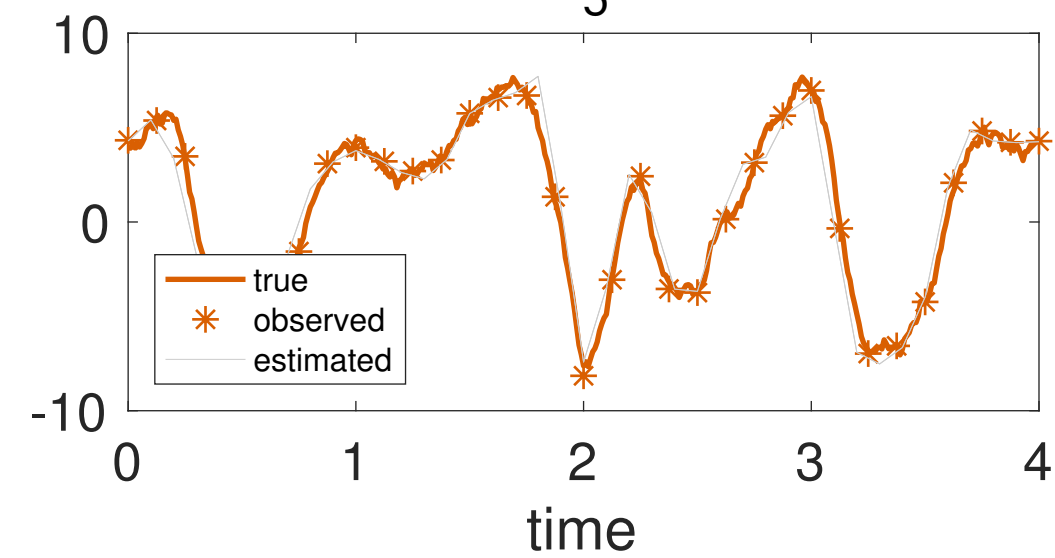
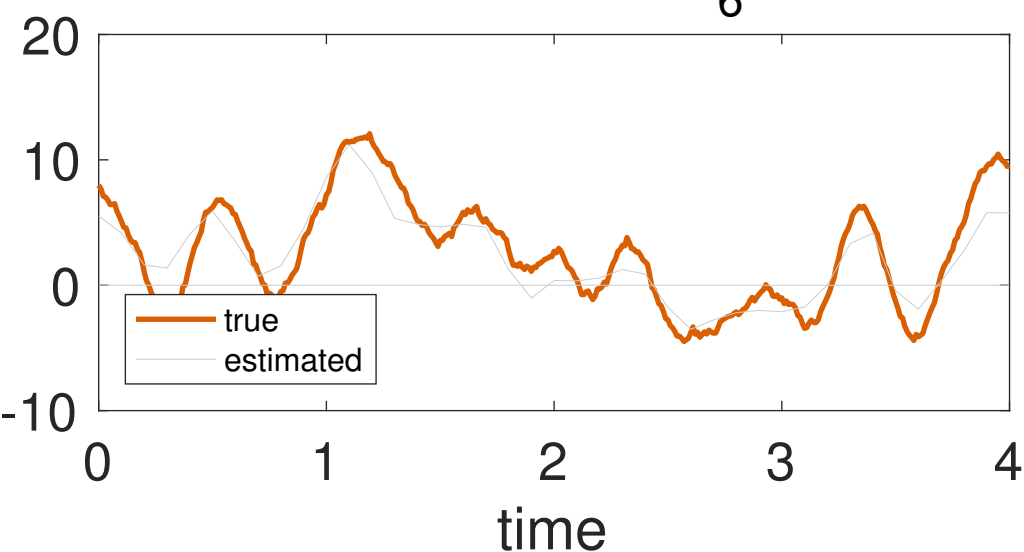
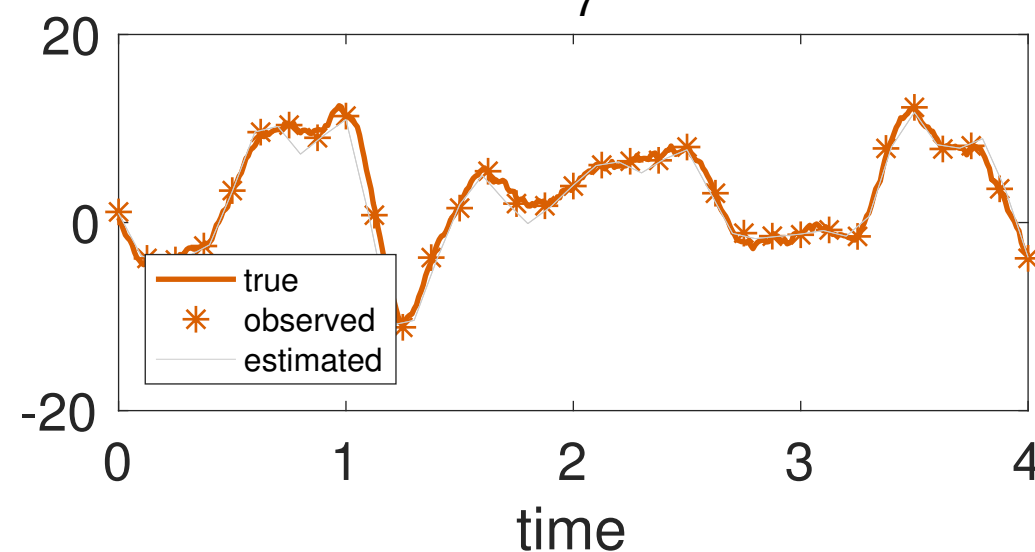


ODE parameters

 $x_1$ unobserved  $x_2$ unobserved  $x_3$ unobserved  $x_4$  $x_5$ unobserved  $x_6$  $x_7$  $x_8$ 