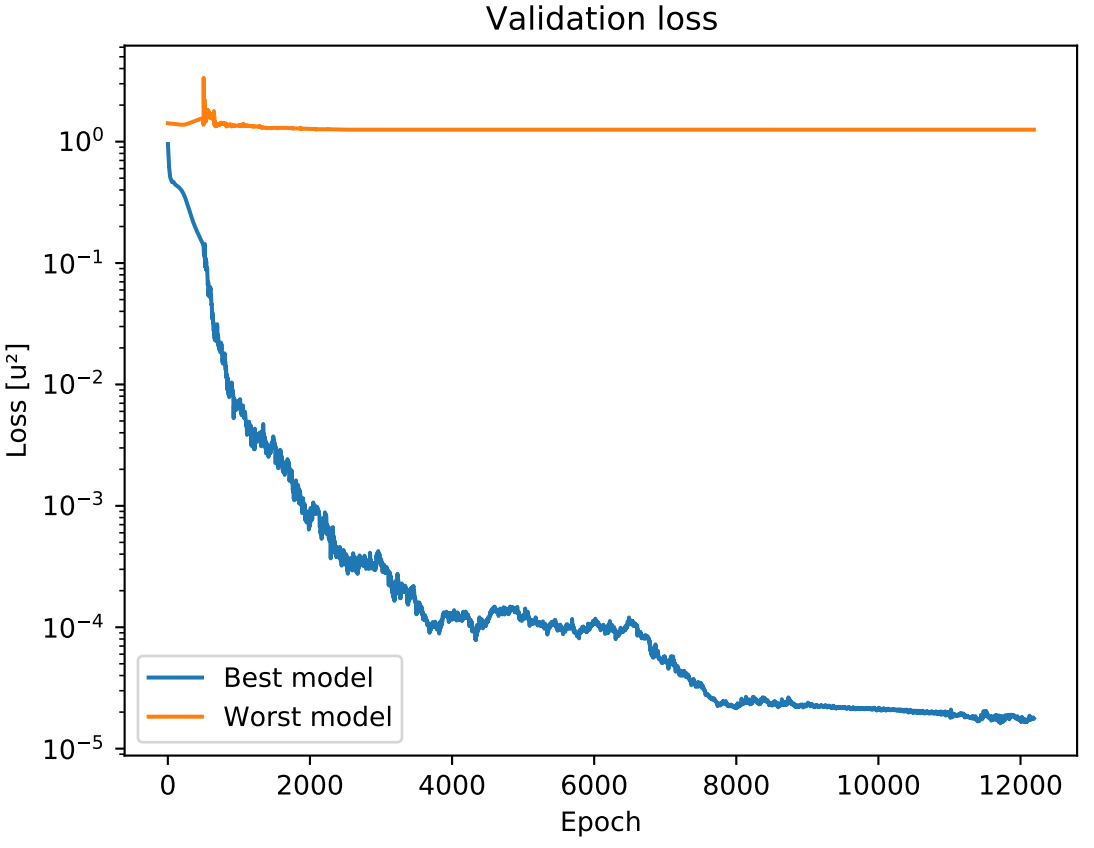
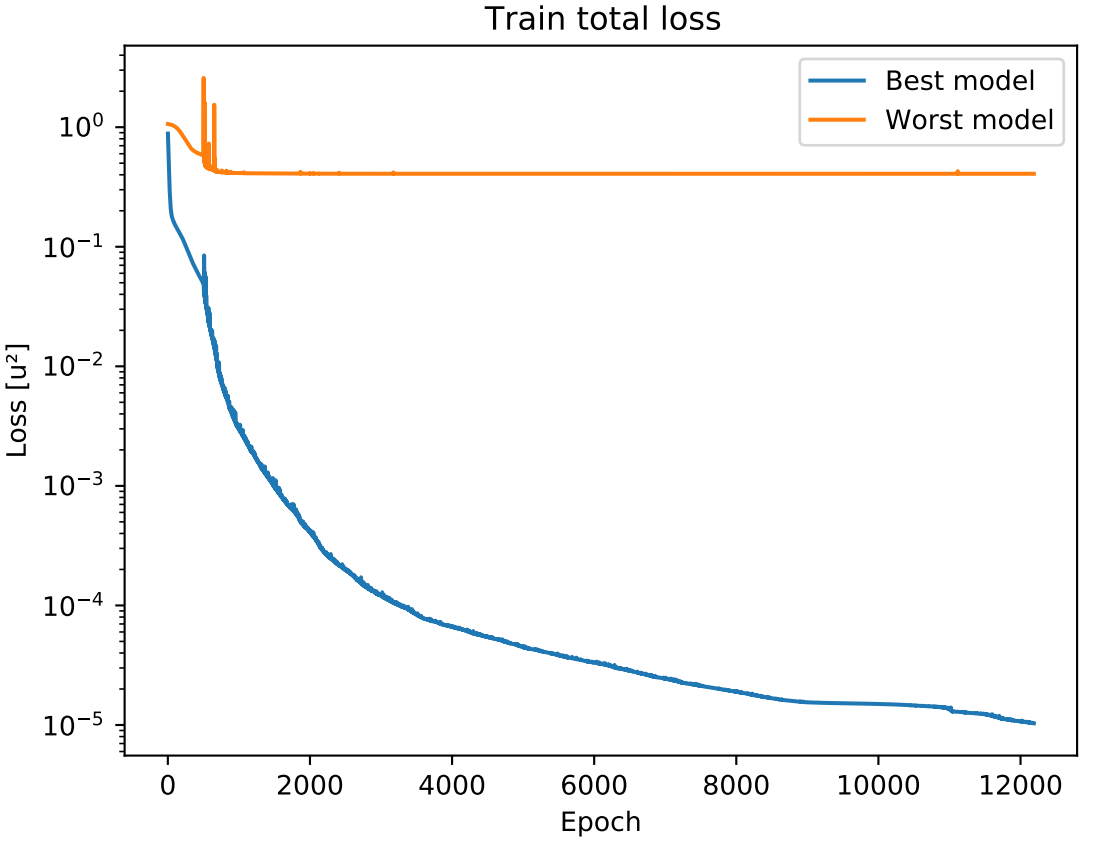
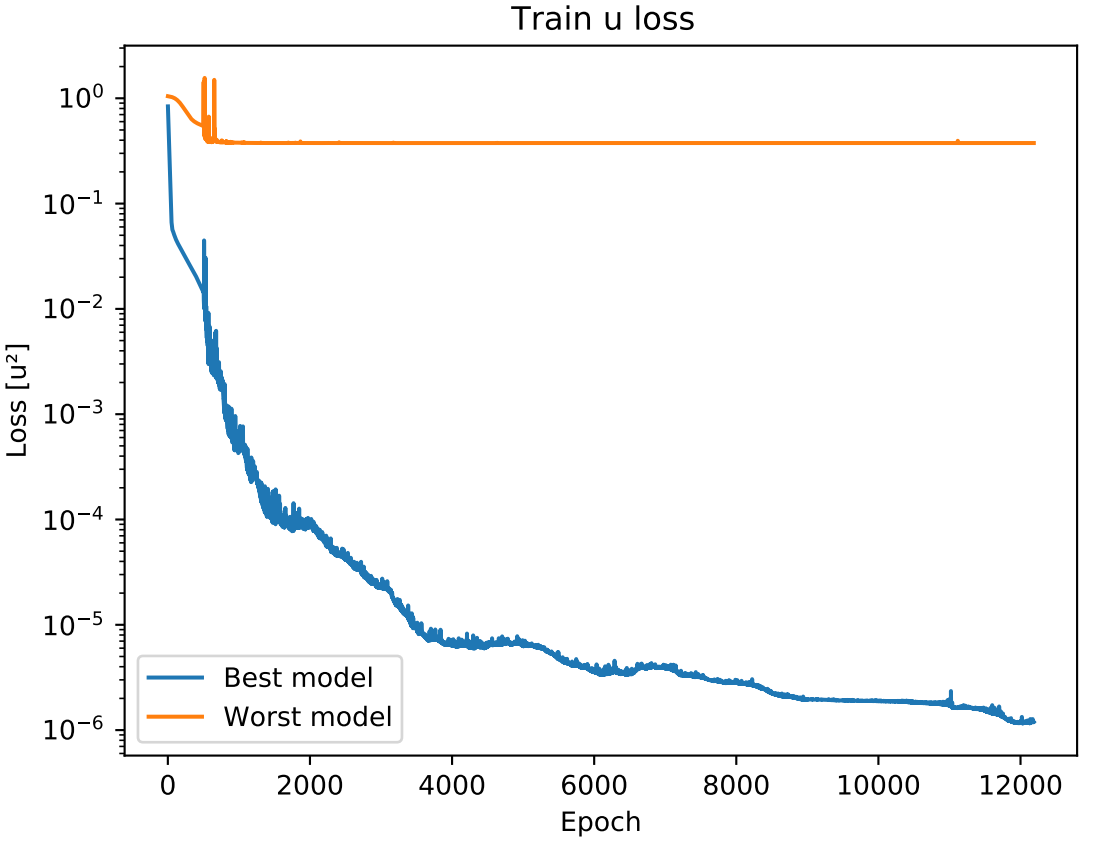
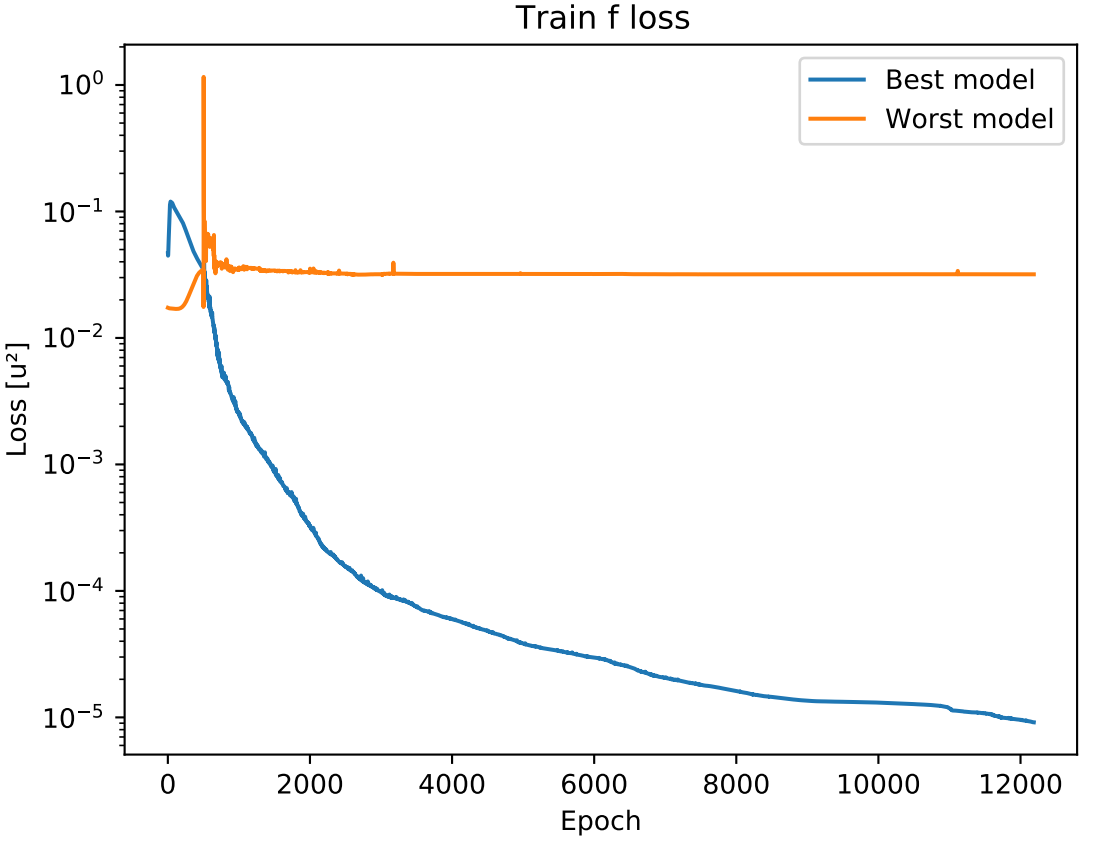
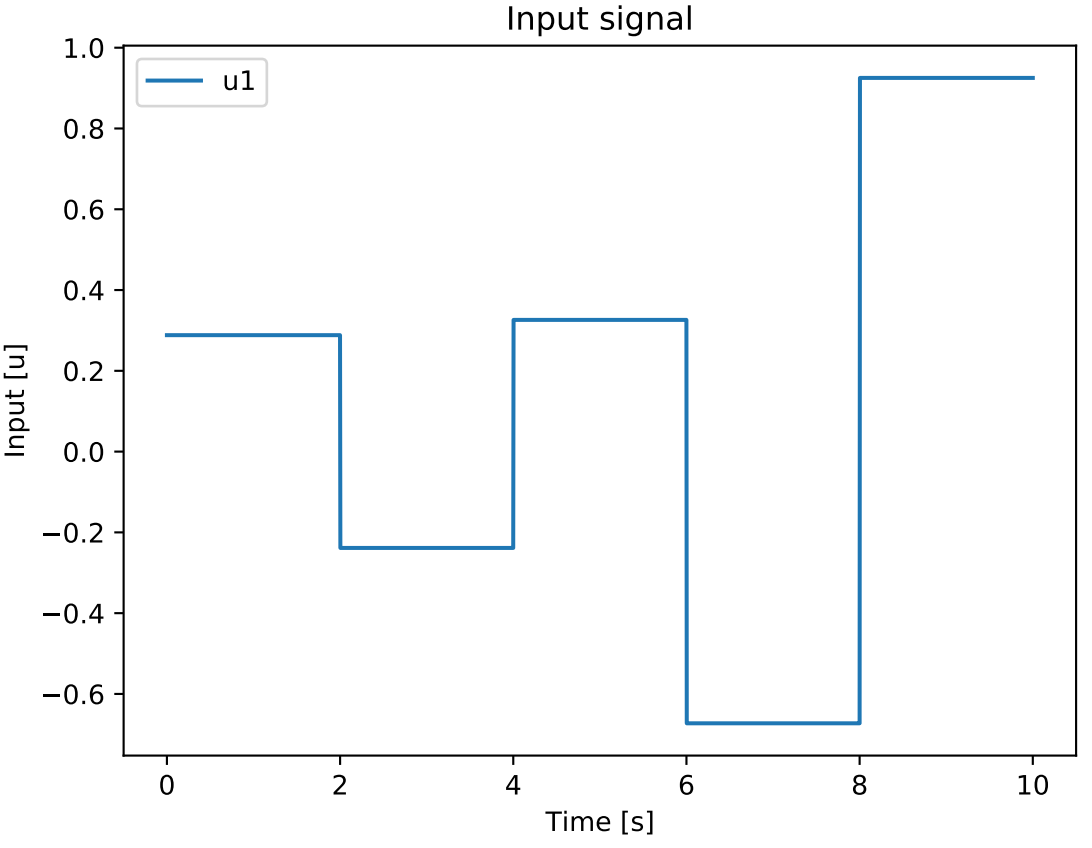
Best and worst model:
Adam epochs -> 500
L-BFGS iterations -> 10000
Test points -> 10000

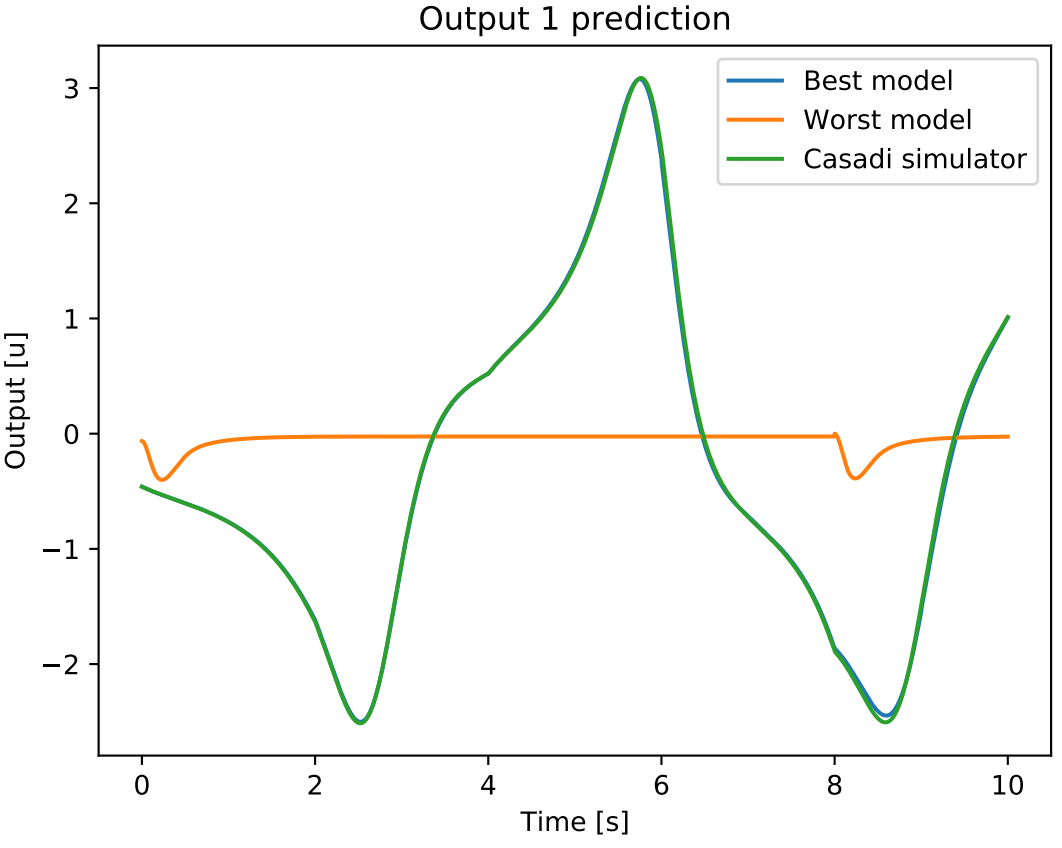

Validation loss
Loss [u²]
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
2000
4000
6000
8000
10000
12000
Epoch
Best model
Worst model

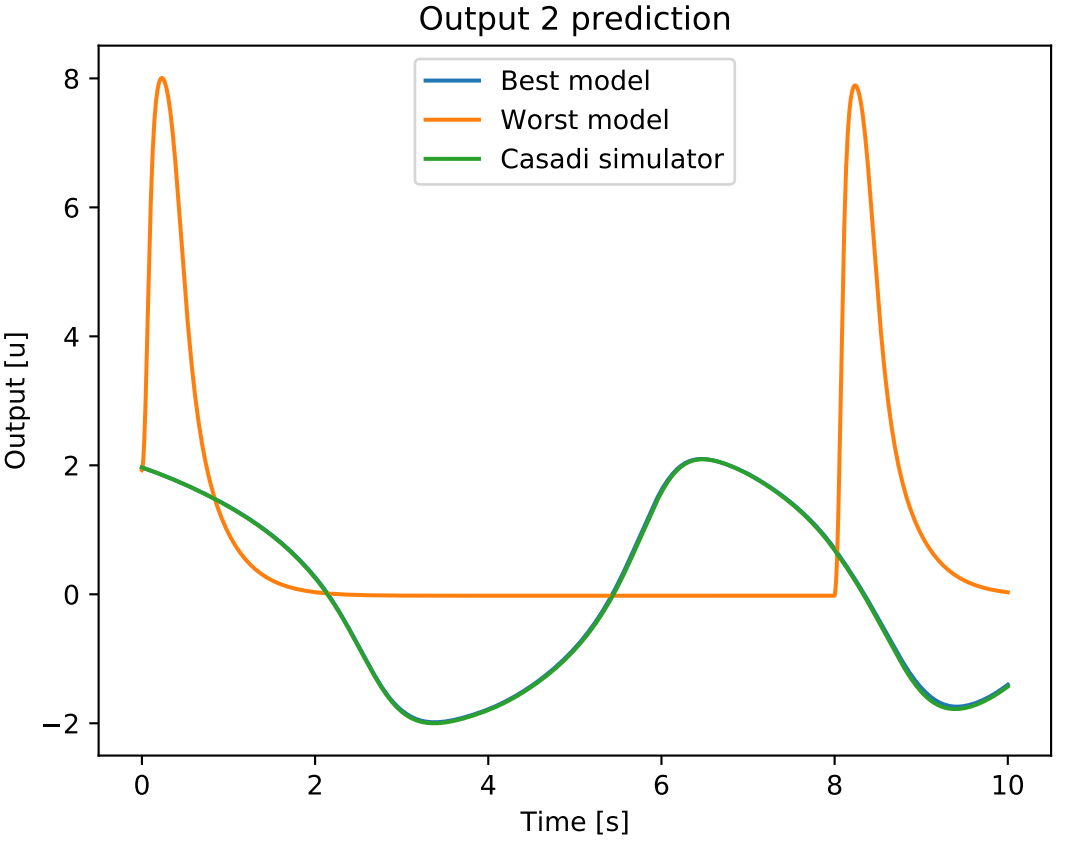

Train total loss
Best model
Worst model
Loss [u²]
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
2000
4000
6000
8000
10000
12000
Epoch


Train u loss
Loss [u²]
Epoch
Best model
Worst model
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
0
2000
4000
6000
8000
10000
12000


Train f loss
Best model
Worst model
Loss [u²]
Epoch
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
2000
4000
6000
8000
10000
12000


Input signal
u1
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
Input [u]
0
2
4
6
8
10
Time [s]


Output 1 prediction
Best model
Worst model
Casadi simulator
Output [u]
Time [s]
3
2
1
0
−1
−2
0
2
4
6
8
10


Output 2 prediction
Best model
Worst model
Casadi simulator
Output [u]
Time [s]
8
6
4
2
0
−2
0
2
4
6
8
10