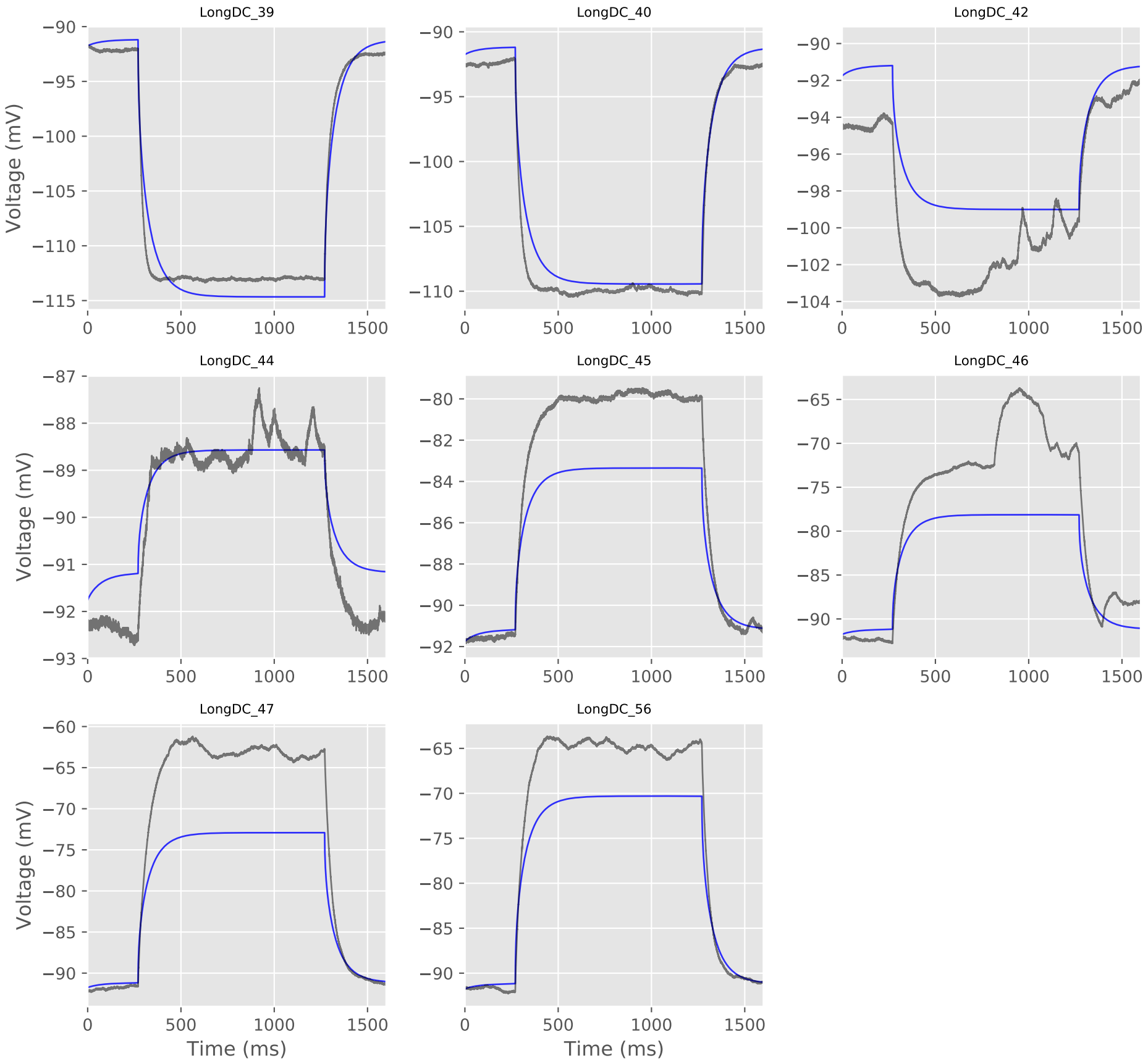
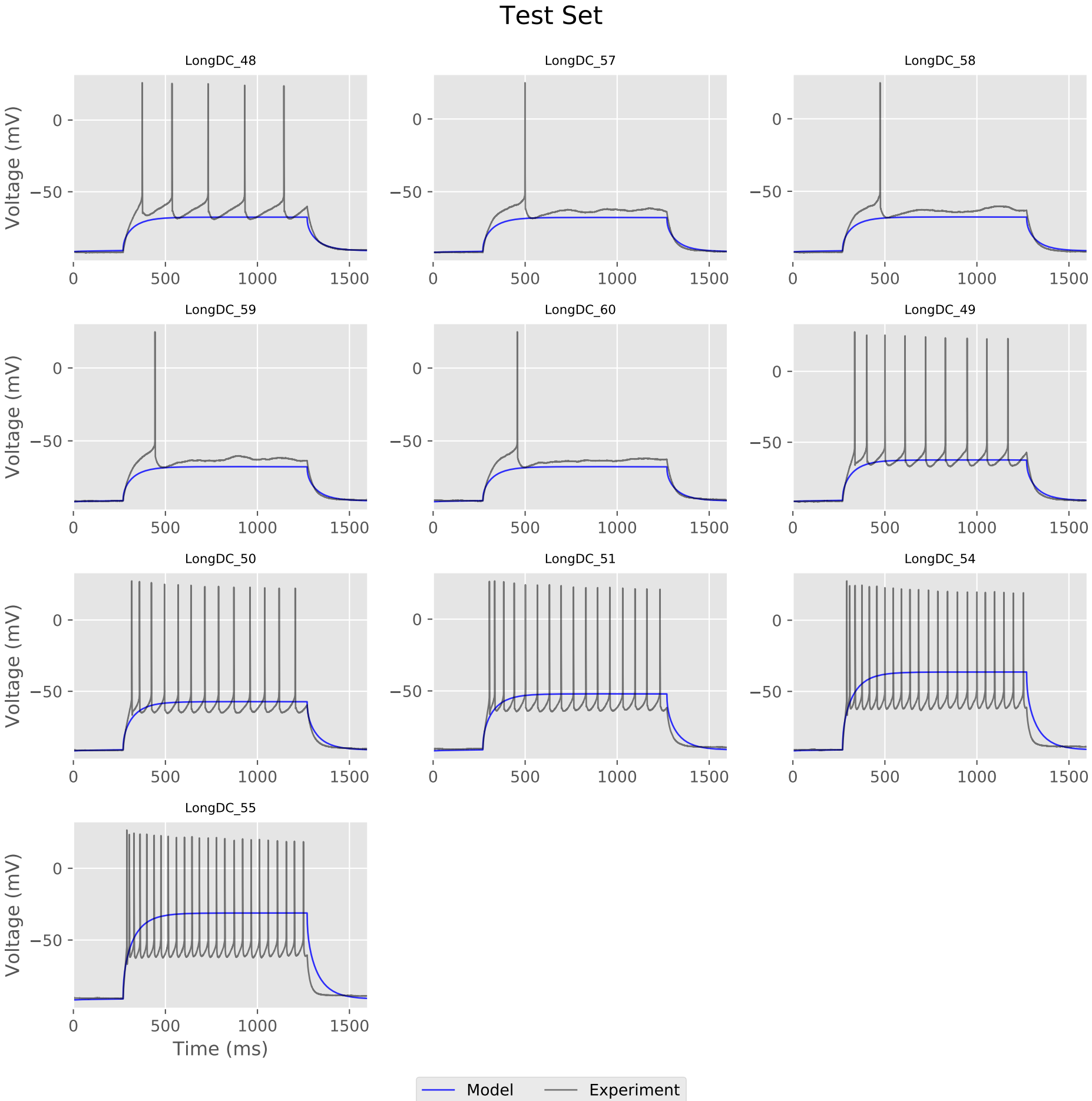
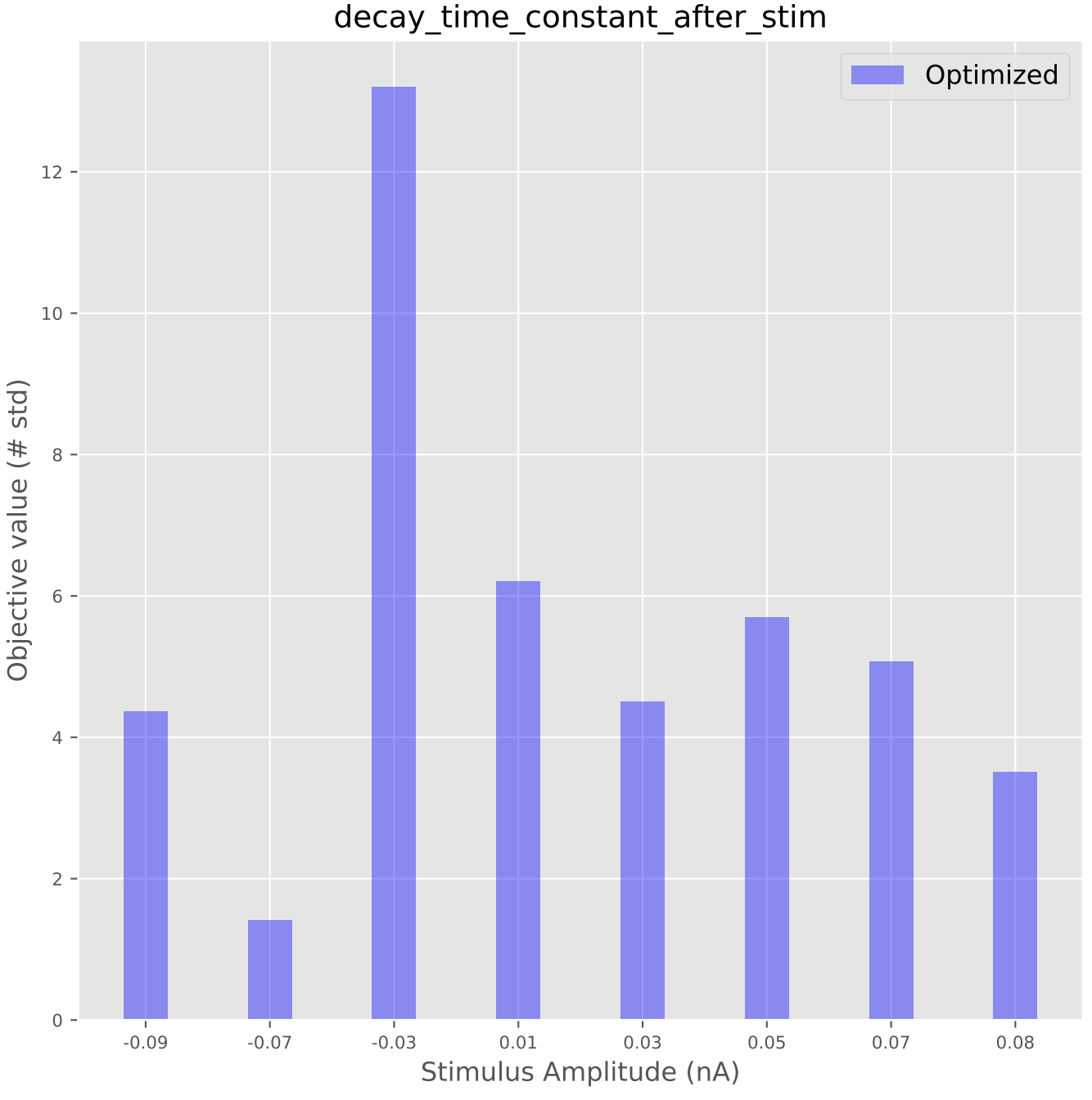
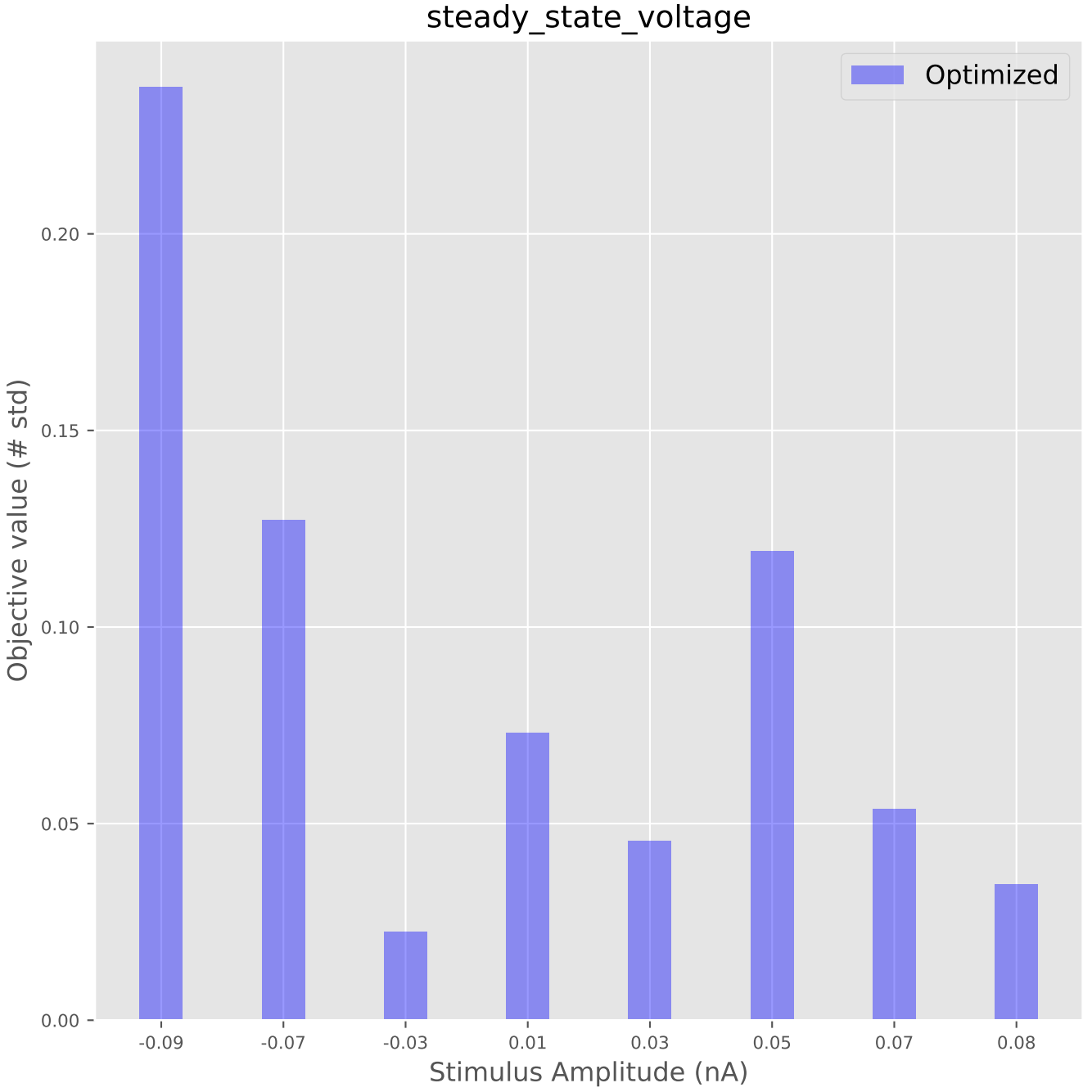
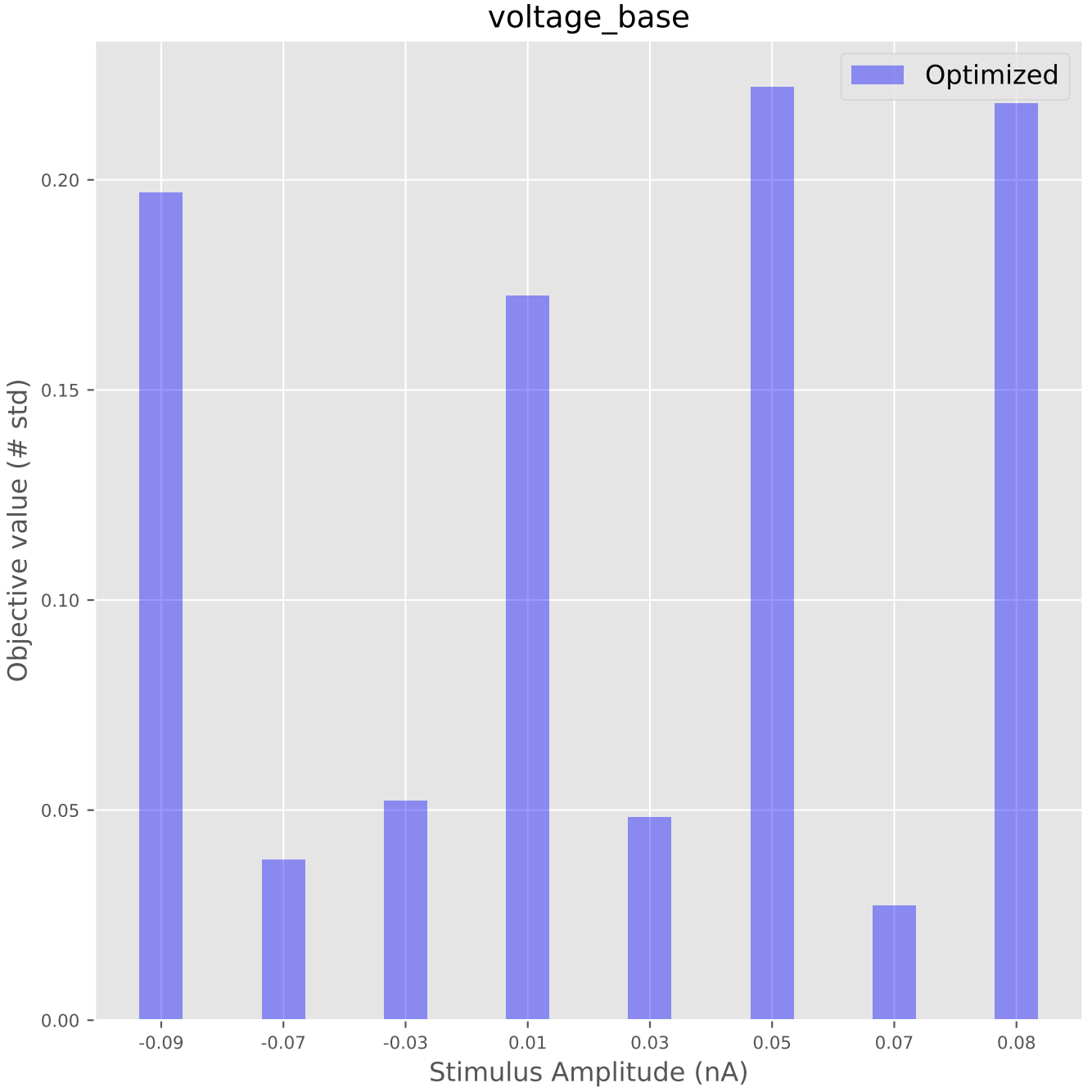
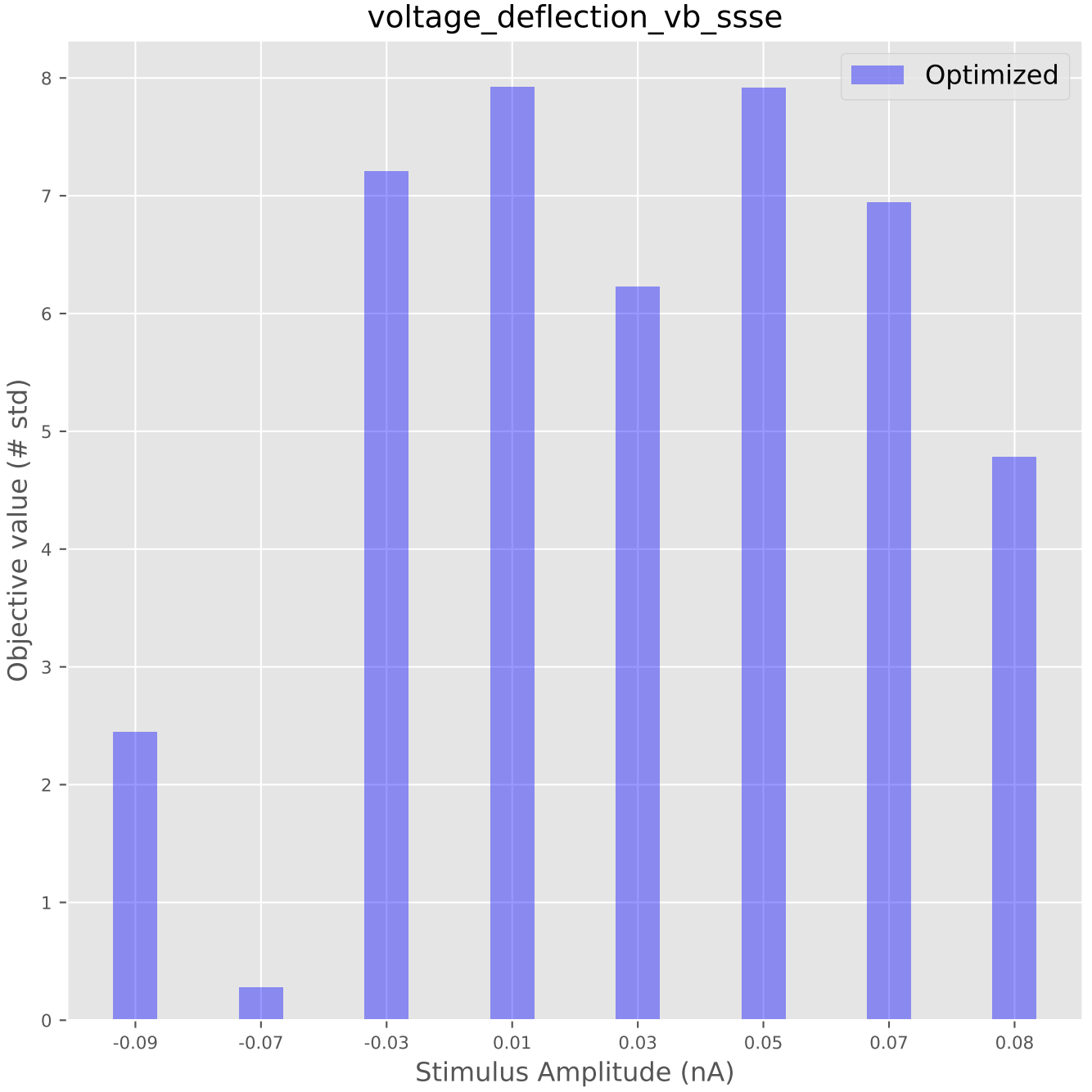

Training Set
LongDC_39
LongDC_40
LongDC_42
LongDC_44
LongDC_45
LongDC_46
LongDC_47
LongDC_56
Voltage (mV)
Time (ms)
Model
Experiment

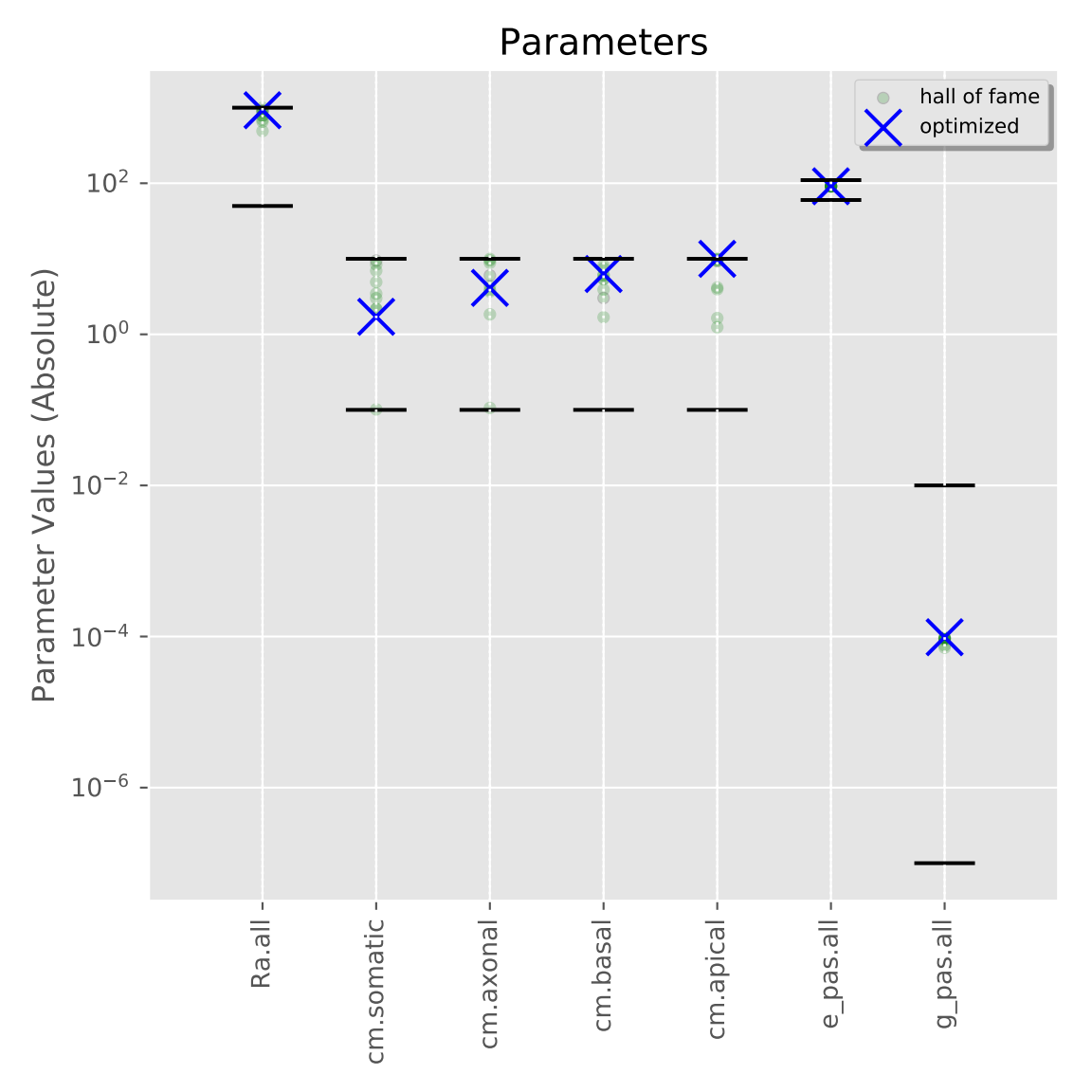

Test Set
LongDC_48
LongDC_57
LongDC_58
LongDC_59
LongDC_60
LongDC_49
LongDC_50
LongDC_51
LongDC_54
LongDC_55
Voltage (mV)
0
−50
0
500
1000
1500
Time (ms)
Model
Experiment

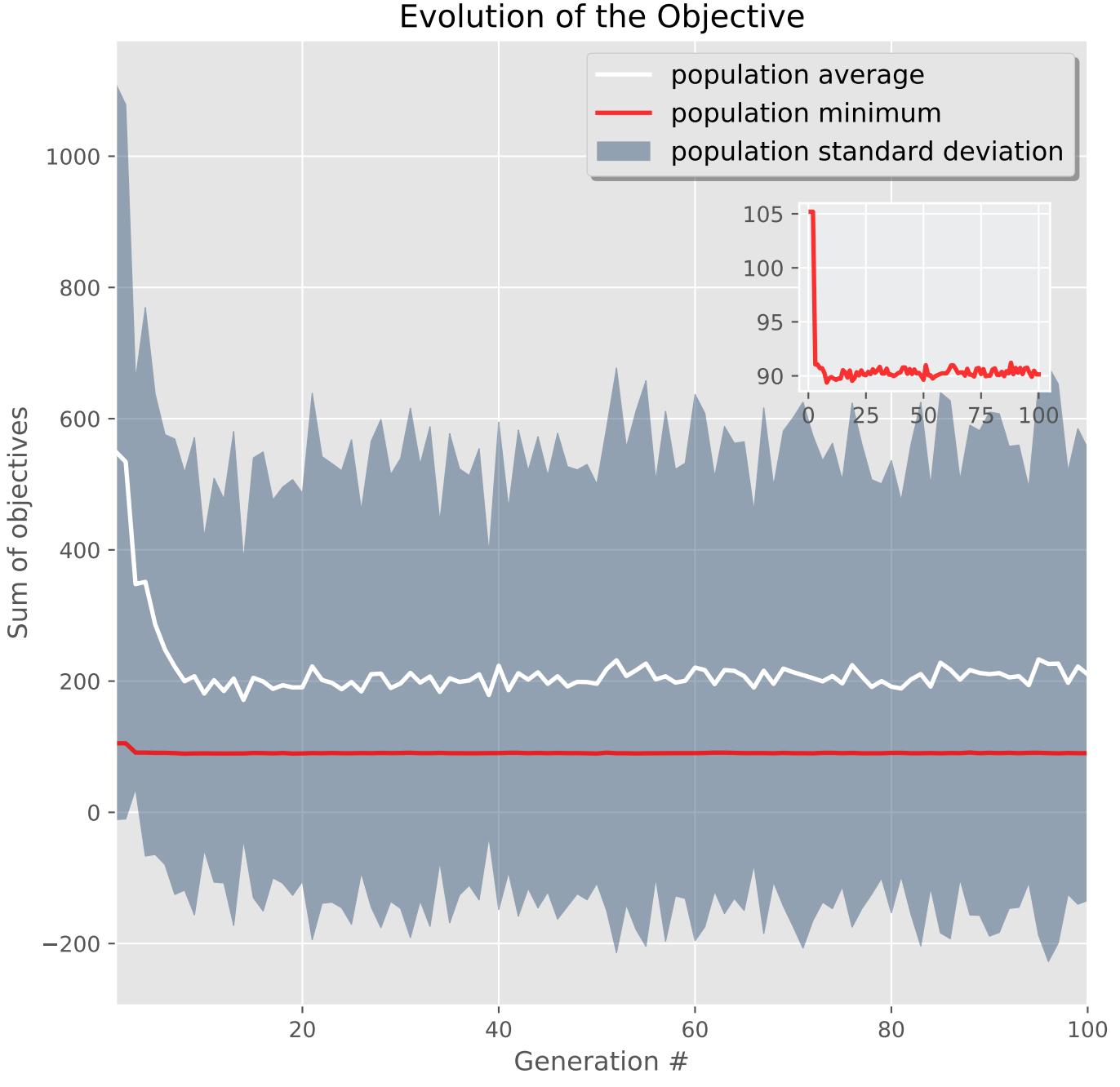

decay_time_constant_after_stim
Optimized
Objective value (# std)
0
2
4
6
8
10
12
-0.09
-0.07
-0.03
0.01
0.03
0.05
0.07
0.08
Stimulus Amplitude (nA)


steady_state_voltage
Optimized
Objective value (# std)
0.00
0.05
0.10
0.15
0.20
-0.09
-0.07
-0.03
0.01
0.03
0.05
0.07
0.08
Stimulus Amplitude (nA)


voltage_base
Optimized
Objective value (# std)
0.00
0.05
0.10
0.15
0.20
-0.09
-0.07
-0.03
0.01
0.03
0.05
0.07
0.08
Stimulus Amplitude (nA)


voltage_deflection_vb_ssse
Optimized
Objective value (# std)
0
1
2
3
4
5
6
7
8
-0.09
-0.07
-0.03
0.01
0.03
0.05
0.07
0.08
Stimulus Amplitude (nA)


Parameters
hall of fame
optimized
Parameter Values (Absolute)
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
Ra.all
cm.somatic
cm.axonal
cm.basal
cm.apical
e_pas.all
g_pas.all


Evolution of the Objective
population average
population minimum
population standard deviation
Sum of objectives
1000
800
600
400
200
0
−200
20
40
60
80
100
Generation #
105
100
95
90
0
25
50
75
100