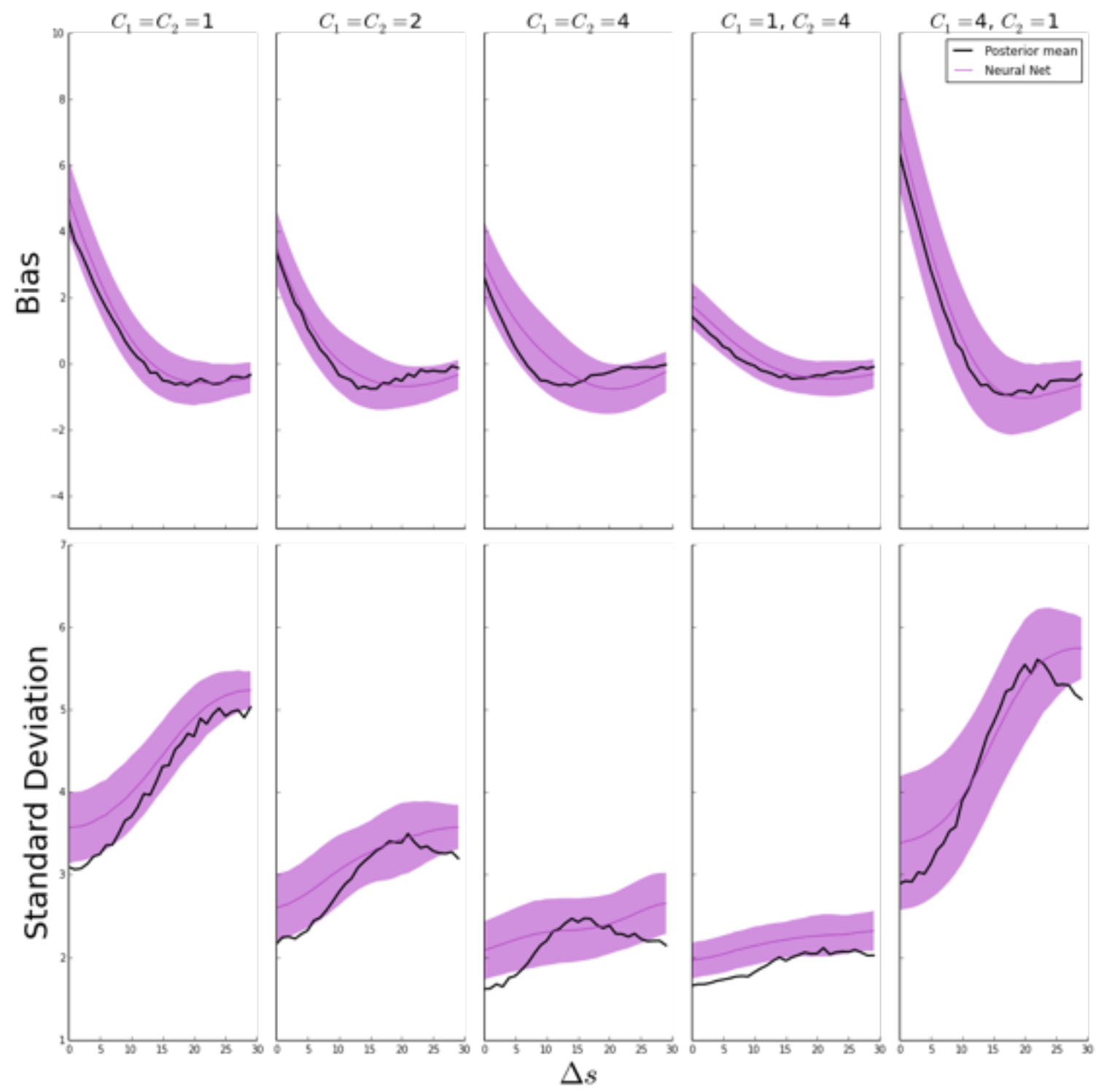


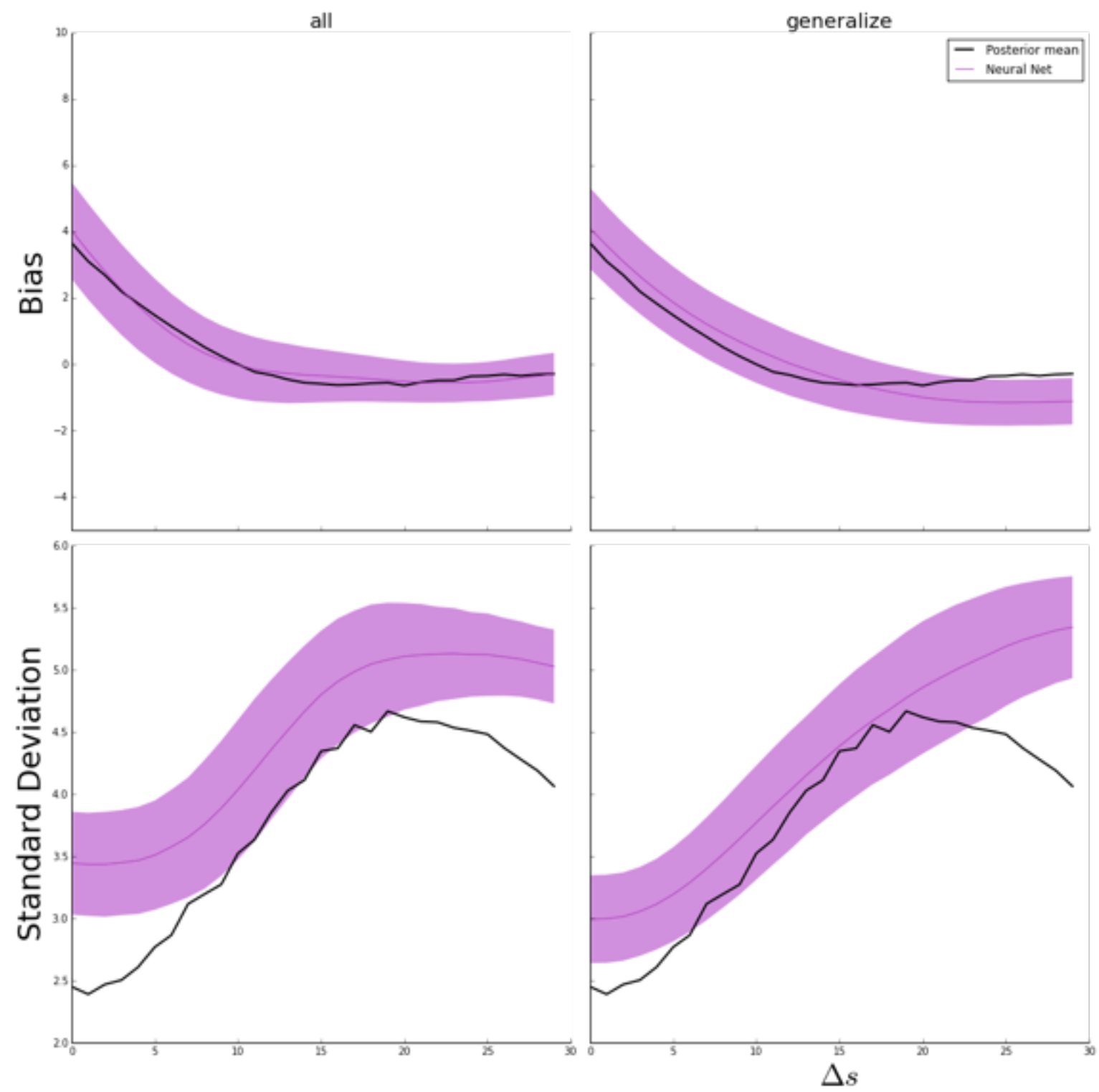
Equal known contrasts

Trained 200 neural networks
for each and averaged

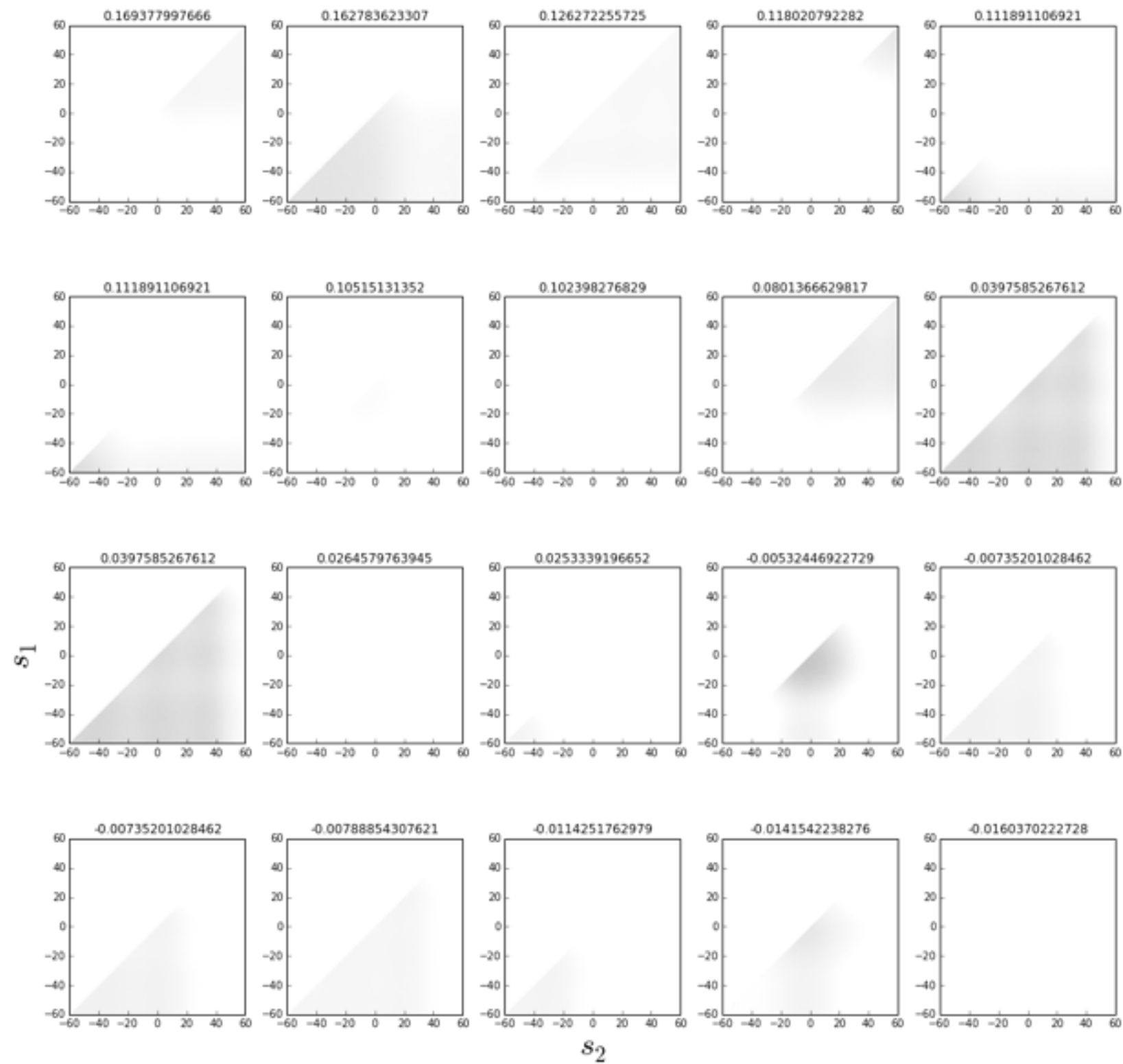
Neural networks parameters
learning_rate=0.0001, n_epochs=100, rho=.9,
mu=.99, nesterov=True, hidden_units = 100
with 270,000 training trials



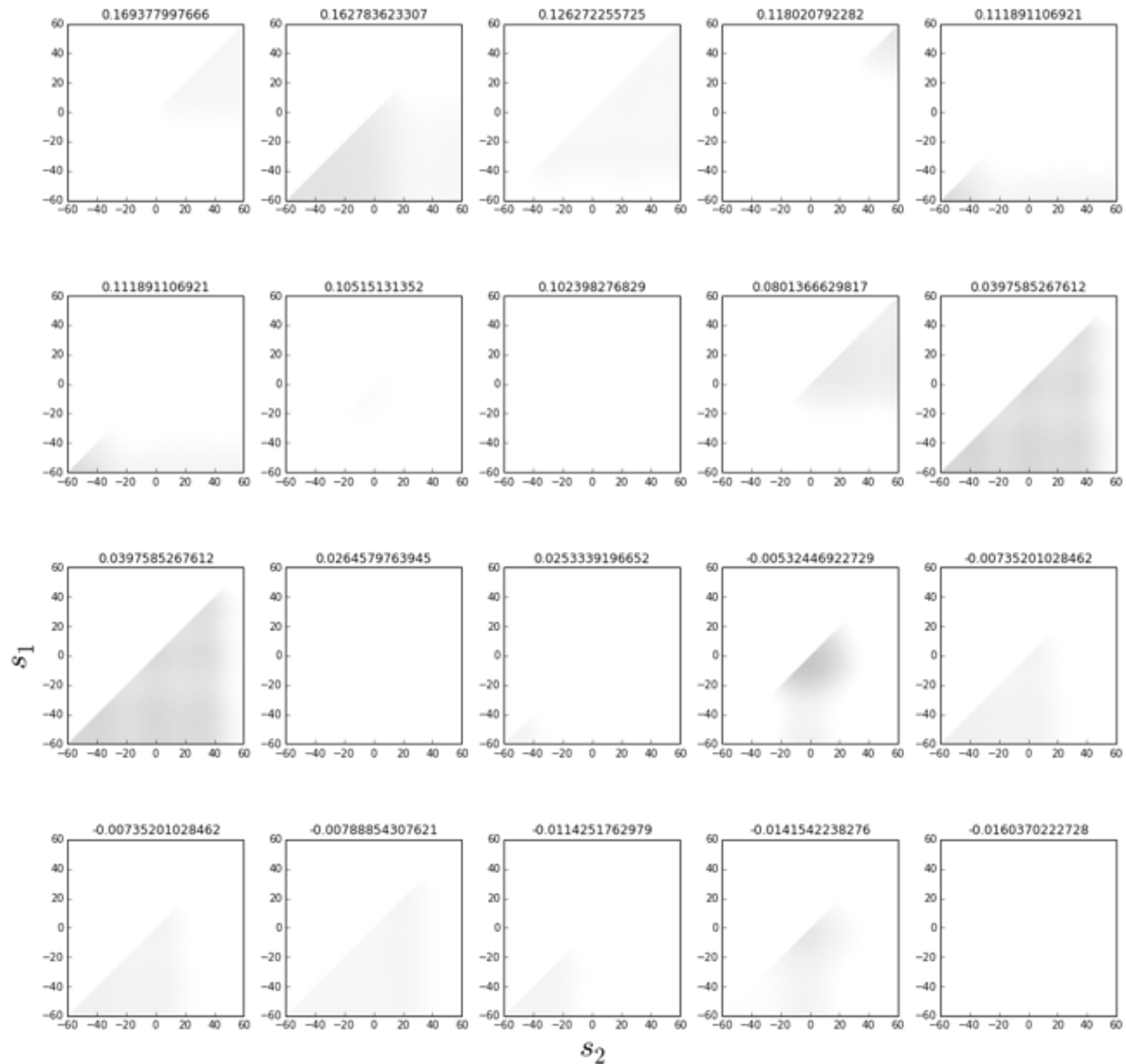
All was trained on all combinations of [1, 2, 4]
Generalize only saw [1, 1] and [4, 4]



s_1 estimate

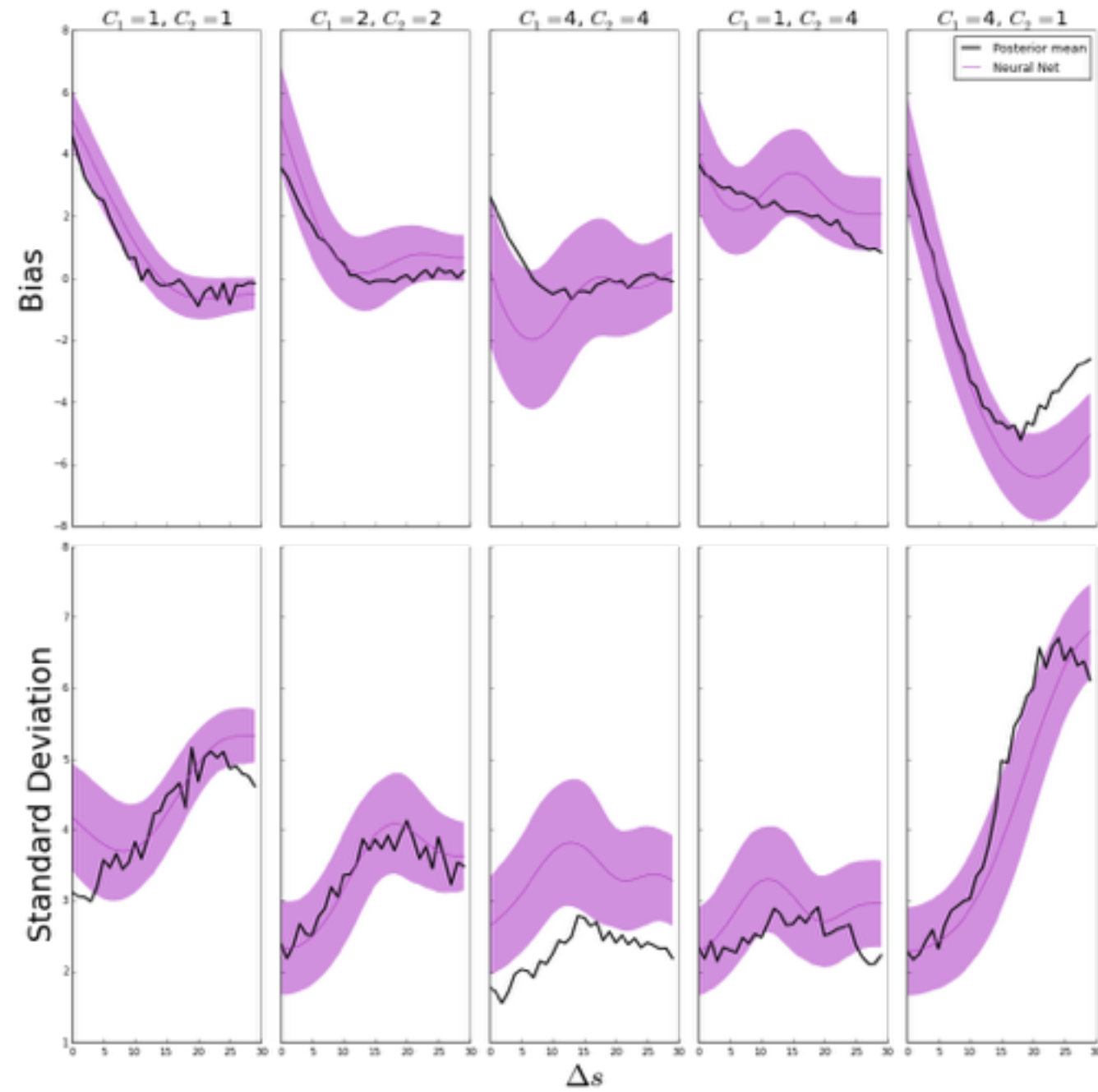


s_2 estimate

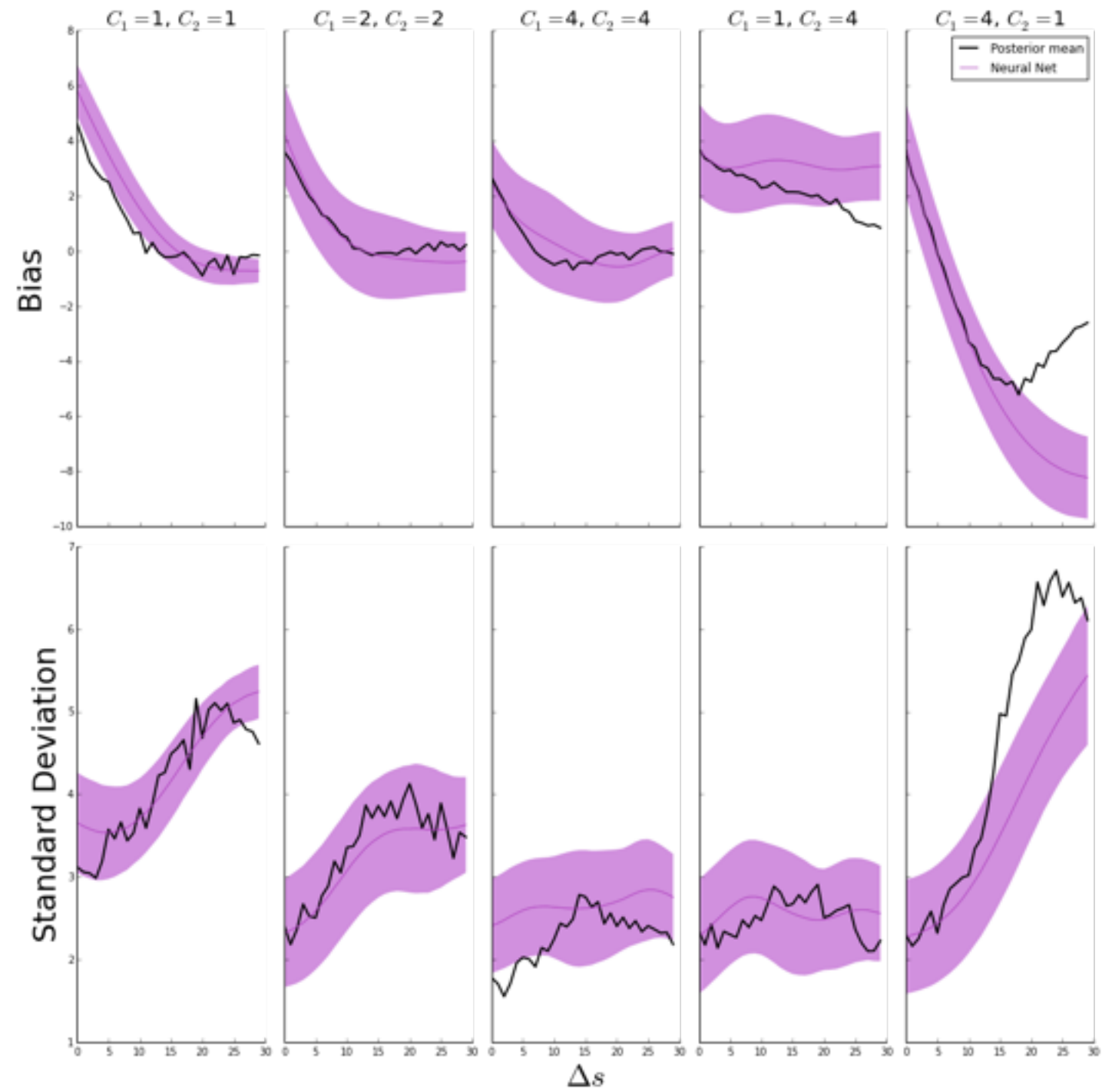


Split by gains

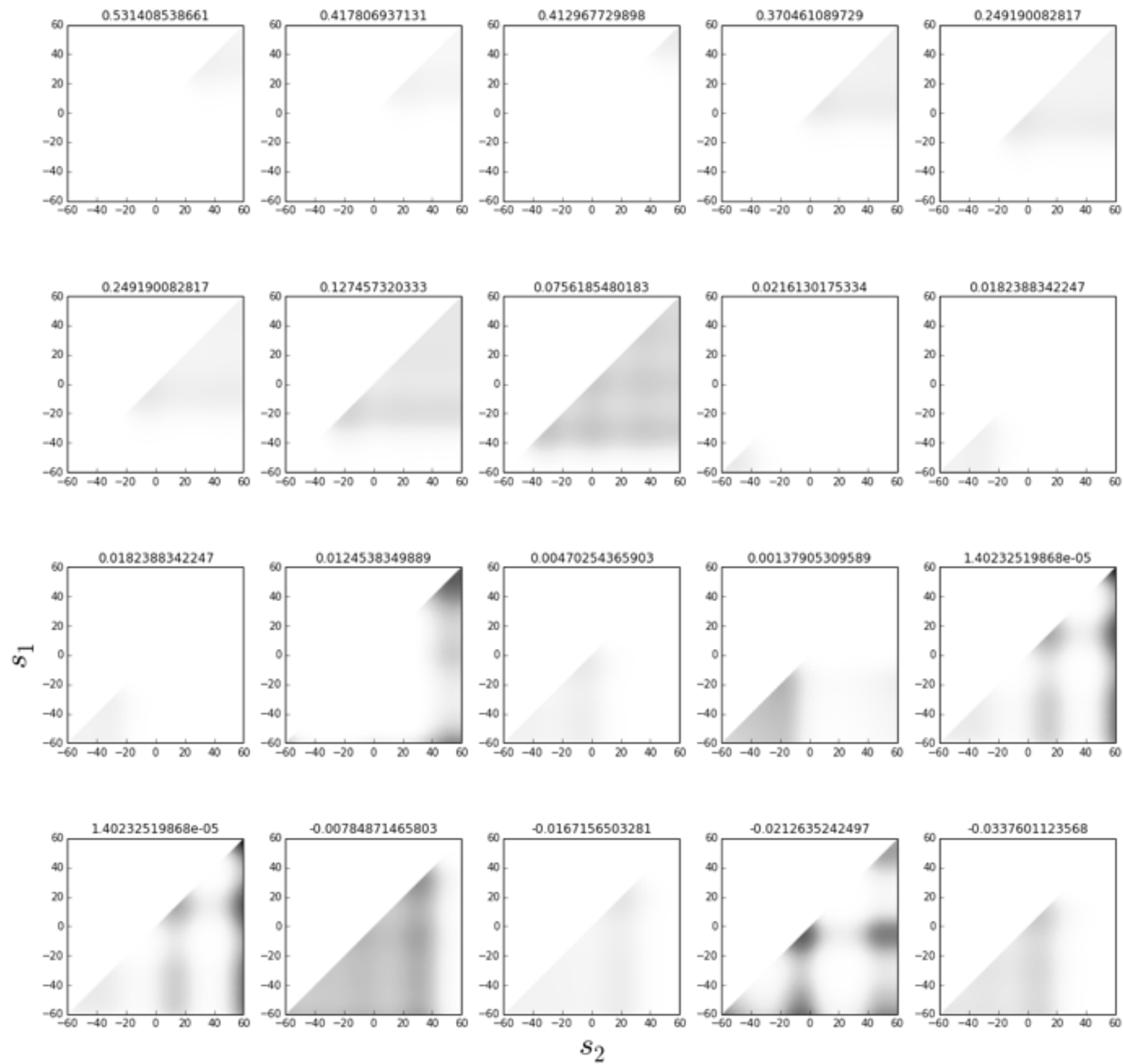
Train all, test all



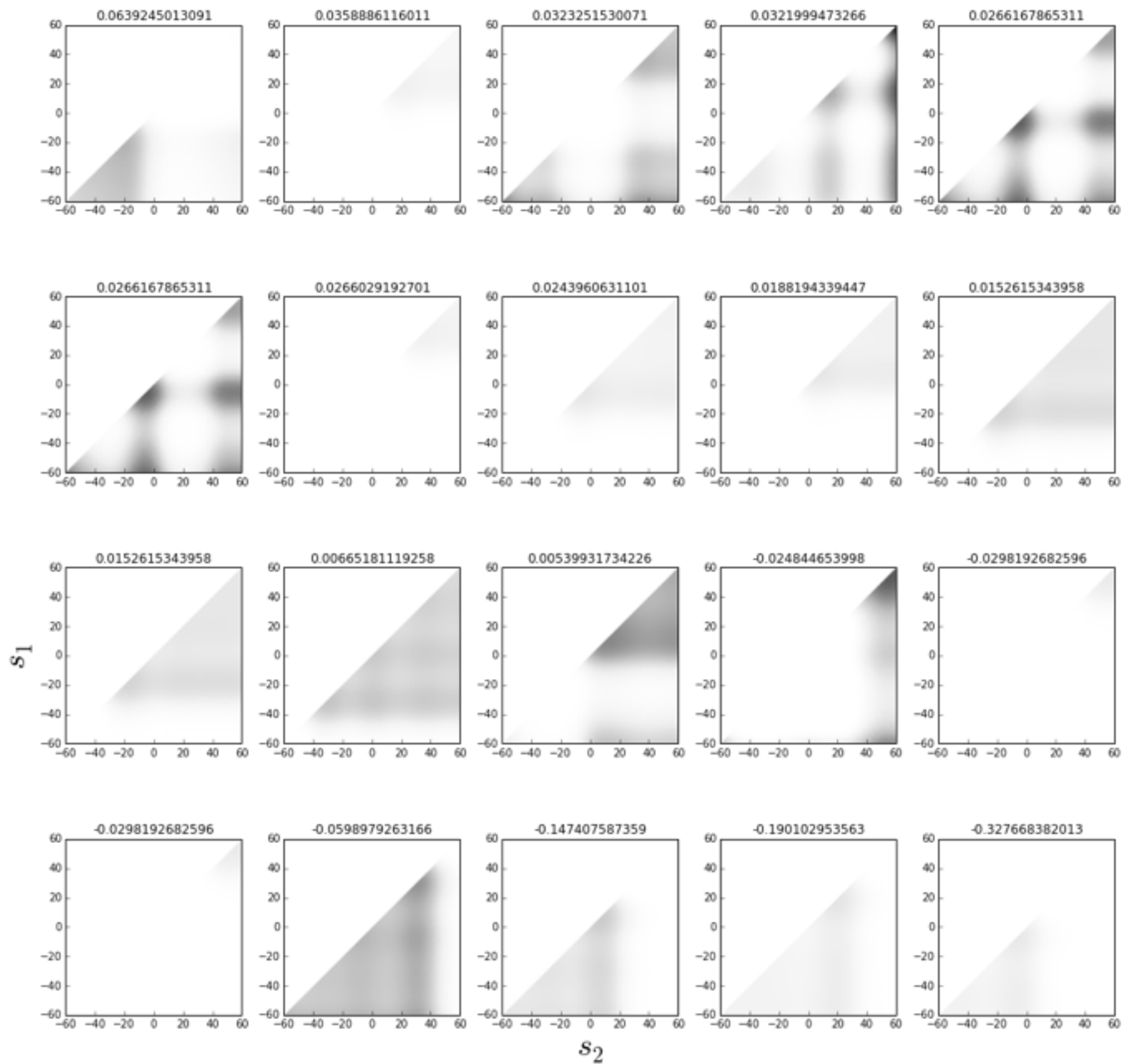
Generalize



s₁ estimate

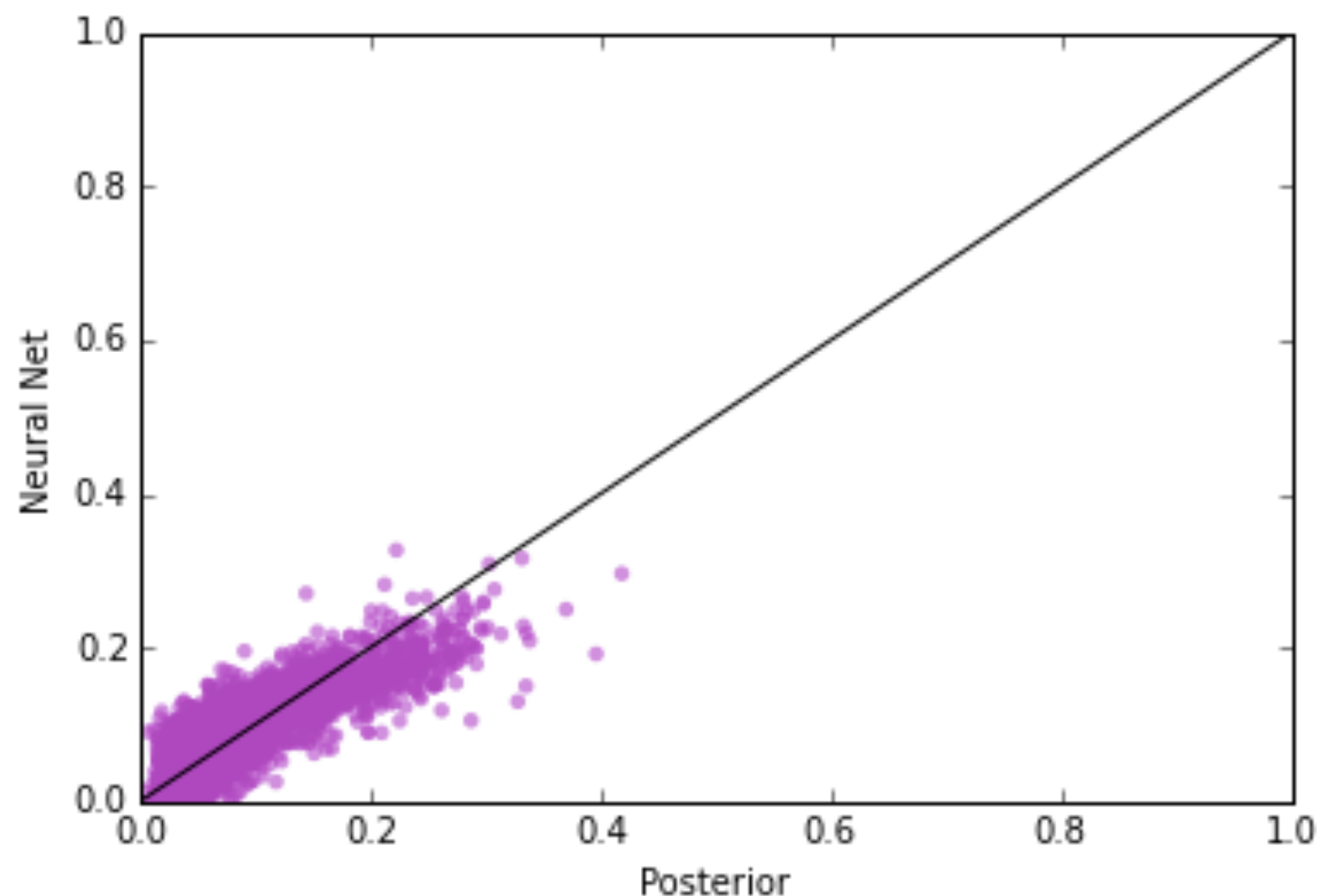


s₂ estimate

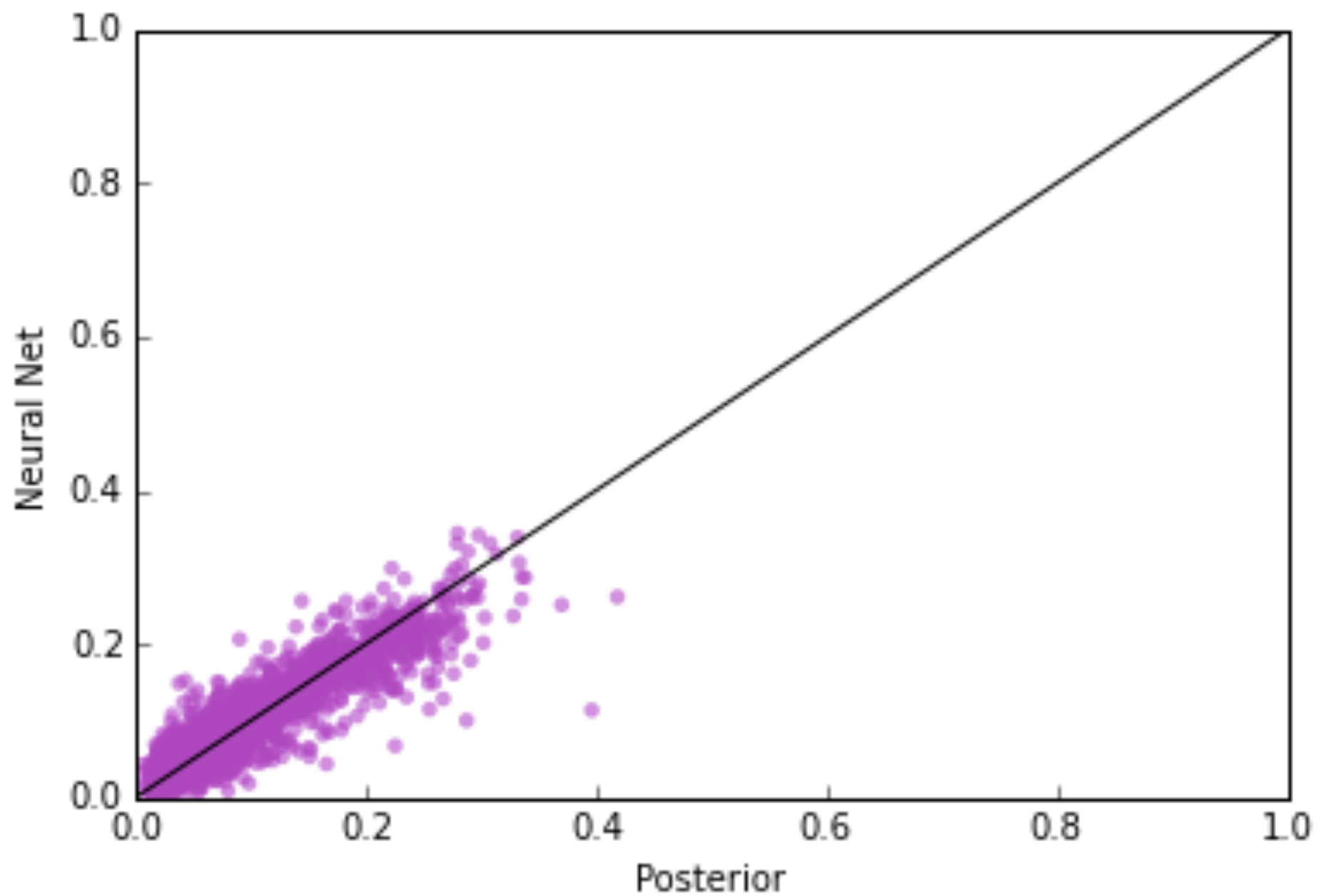


Reading out posterior precision from hidden units

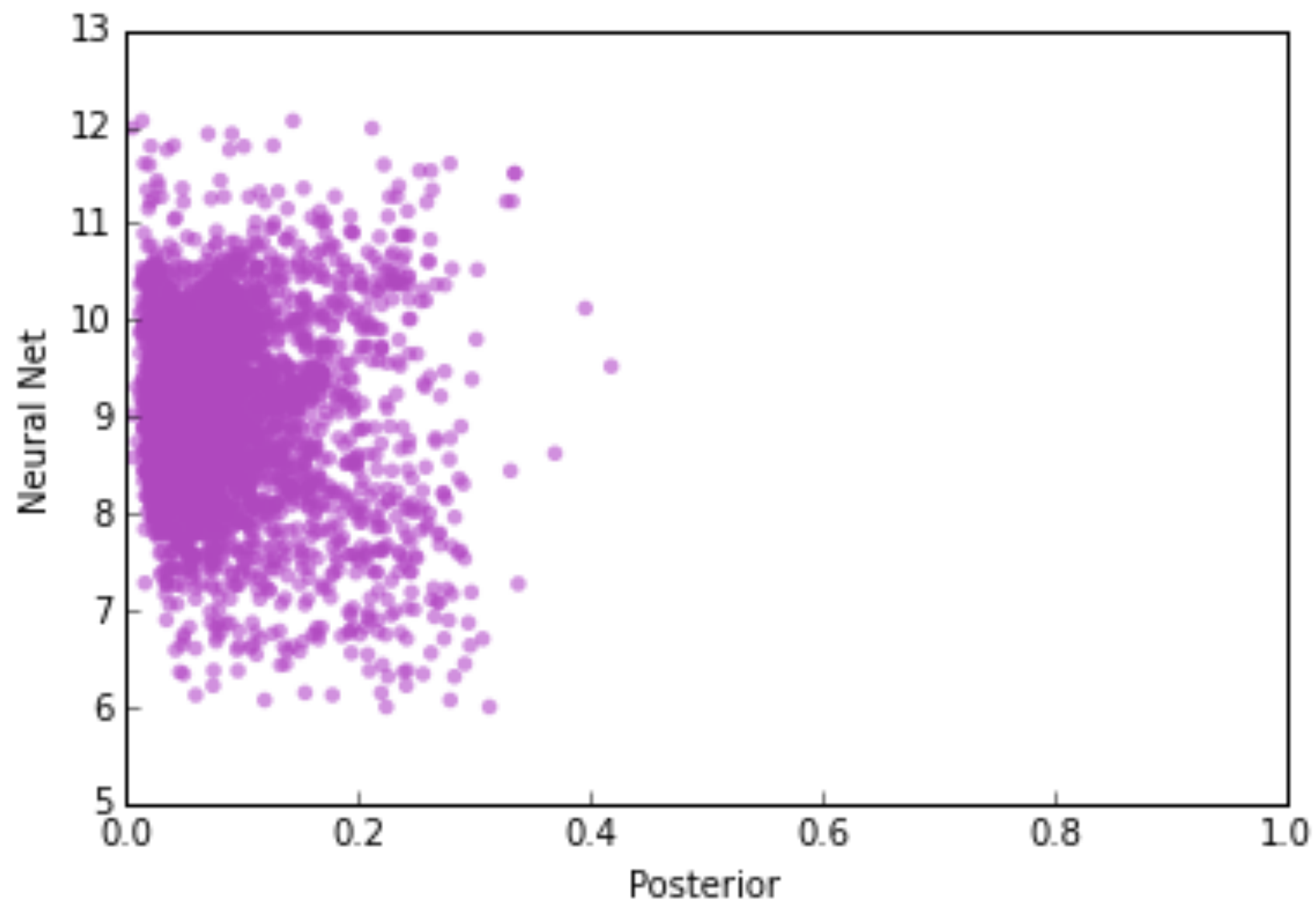
Linear readout
Correlation = 0.83

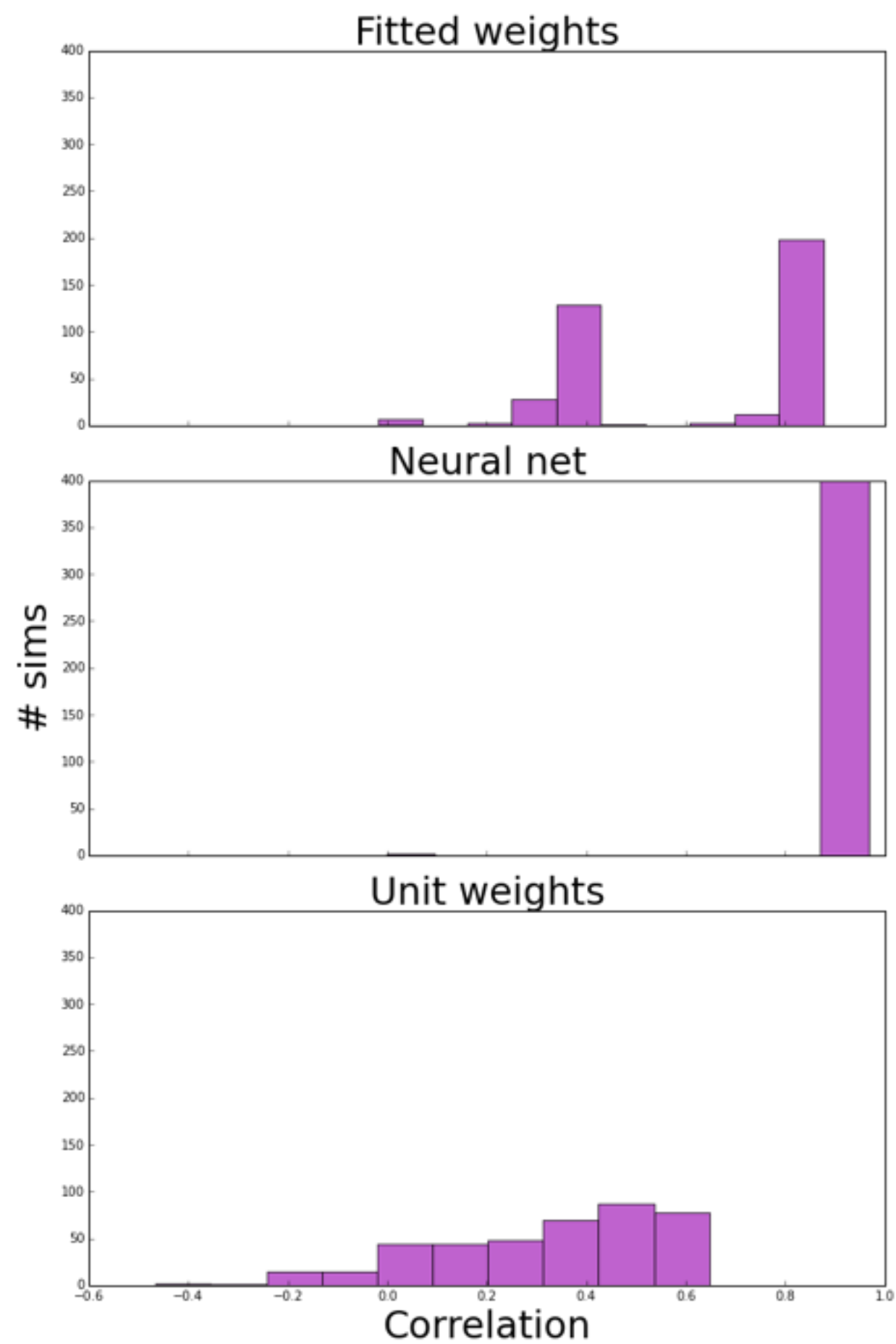


Trained network
Correlation = 0.91

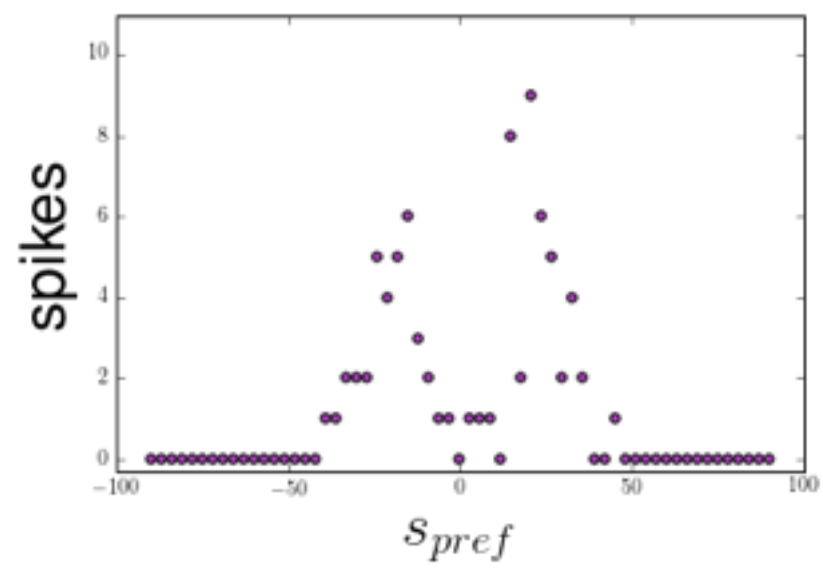
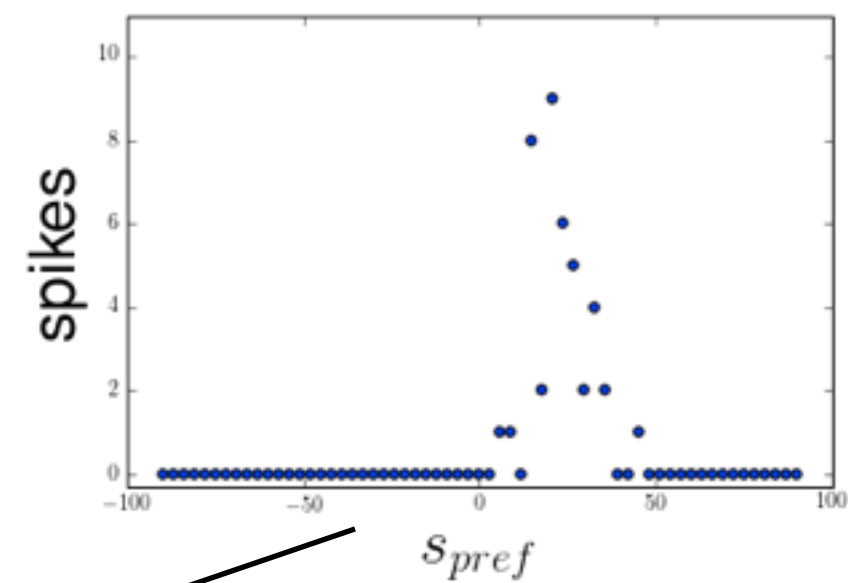
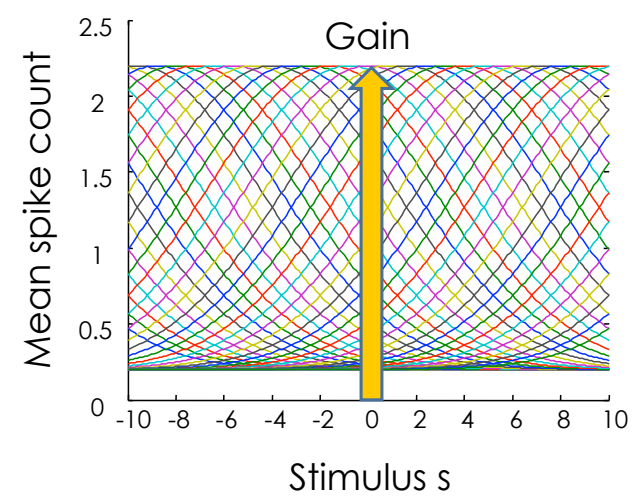
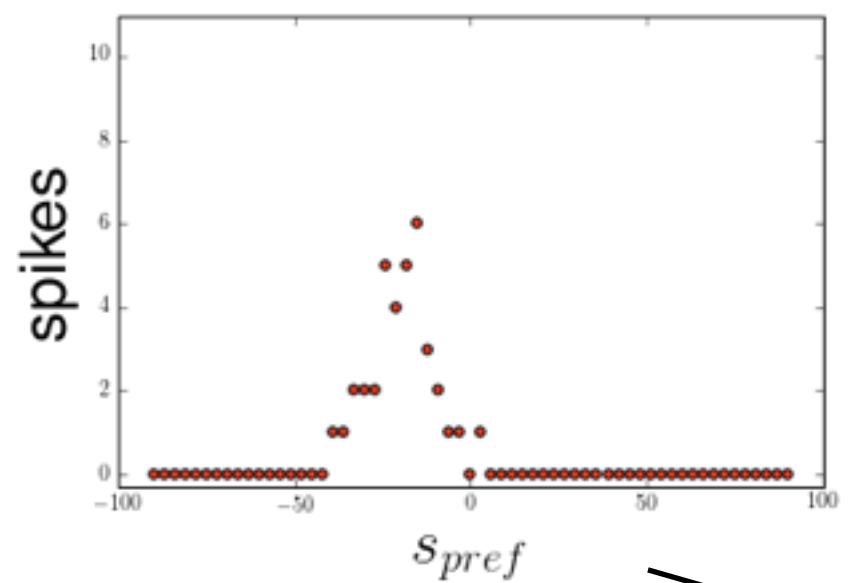


Sum of hidden units
Correlation = $-.09$





Presentation Figures



$$s_1 = -30, s_2 = 10, \\ c_1 = c_2 = 4$$

