**Debugging regression case**

1. reduce the case to predict 1 variable (x-position) only

2. reduce the case to iteration on just 1 batch of the data (for multiple epoch)

- doesn’t matter even if it overfit, just want to see the training loss decrease, and careless about the valid\_loss (which will improve with more data) for now

3. added firing rate regularization

- set f\_target = 10Hz = 10\*(1e-3) 1/ms

- used a large c\_reg = 100 (see other values for other application in supp info)

4. increased the neuron threshold from 0.6 to 1 (in order to reduce firing rate)

5. increase hidden layer size to 300 (hvn’t tried this yet)