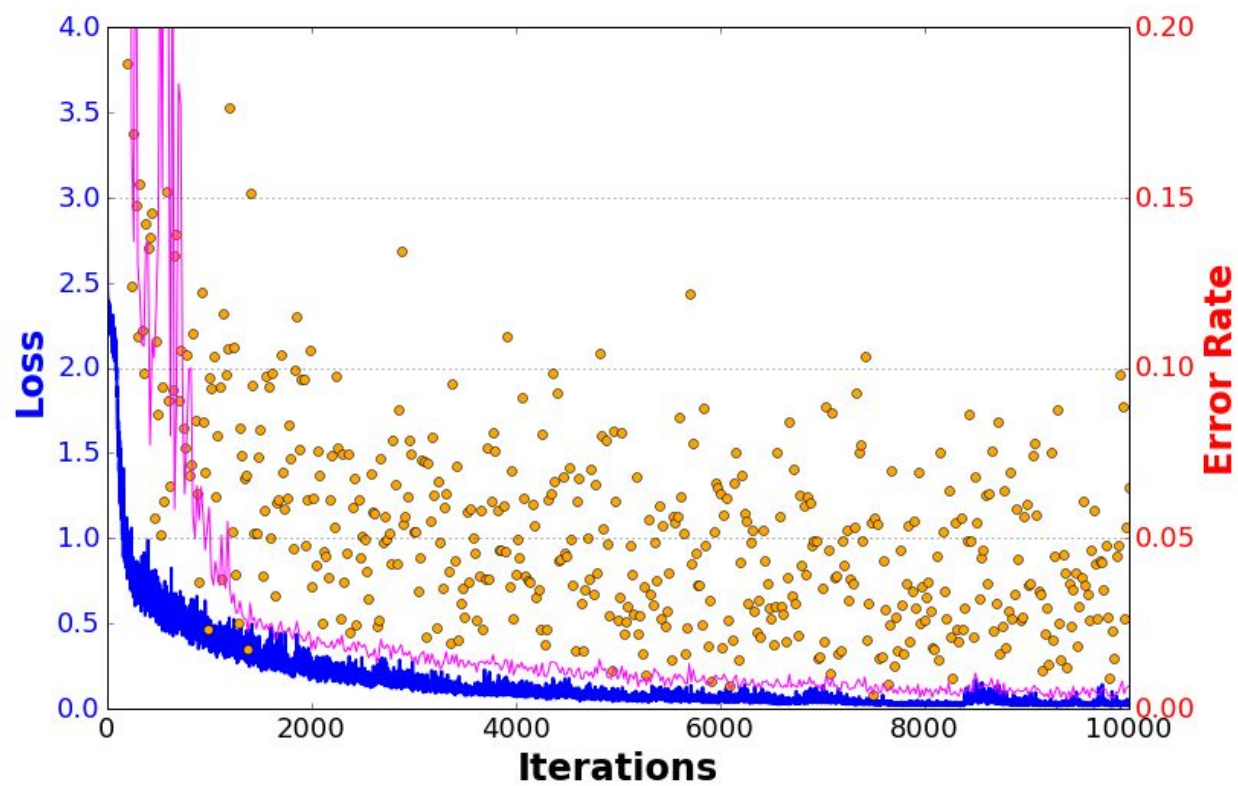
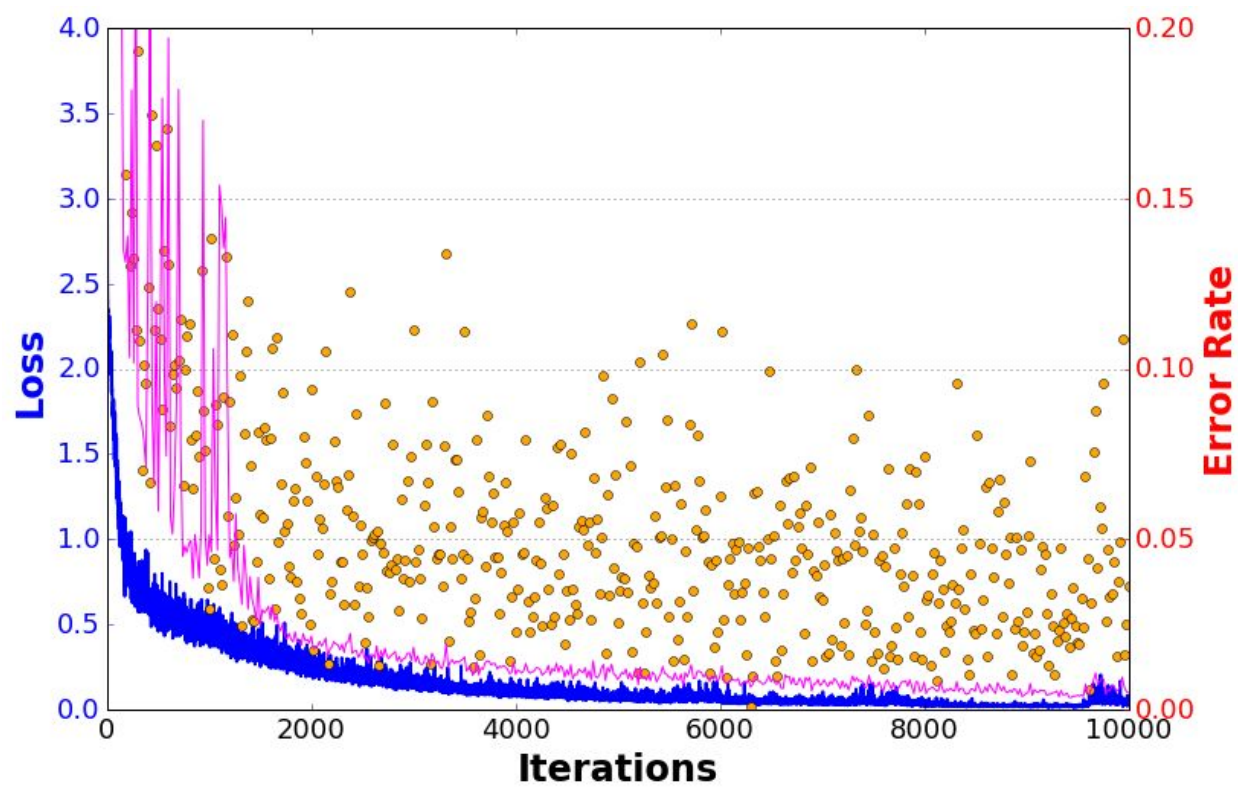
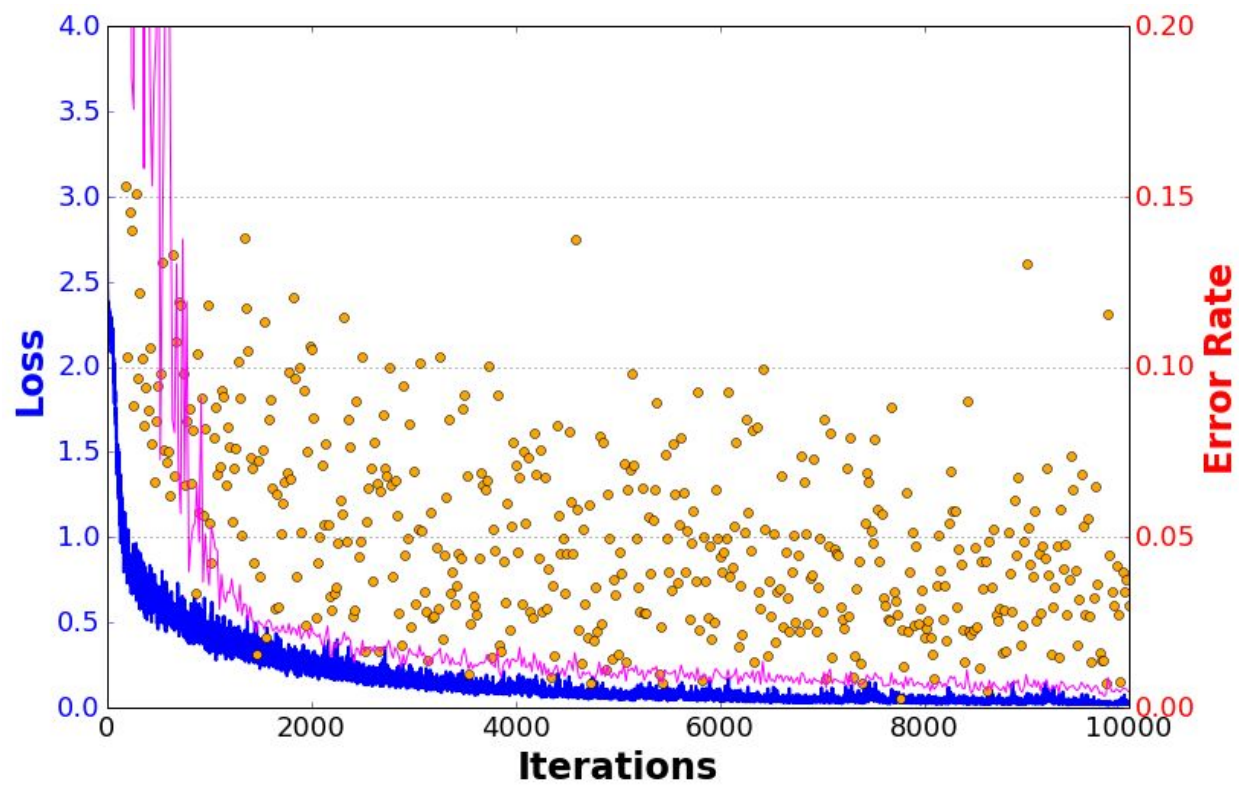
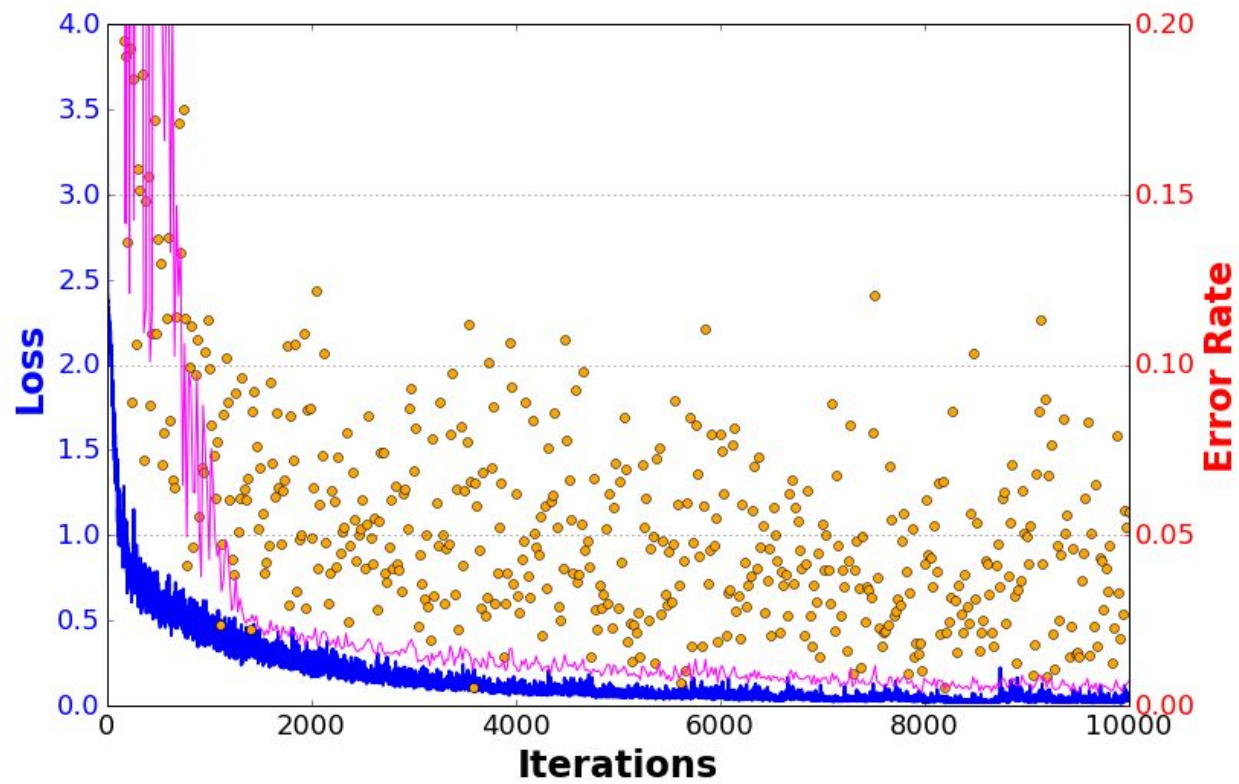


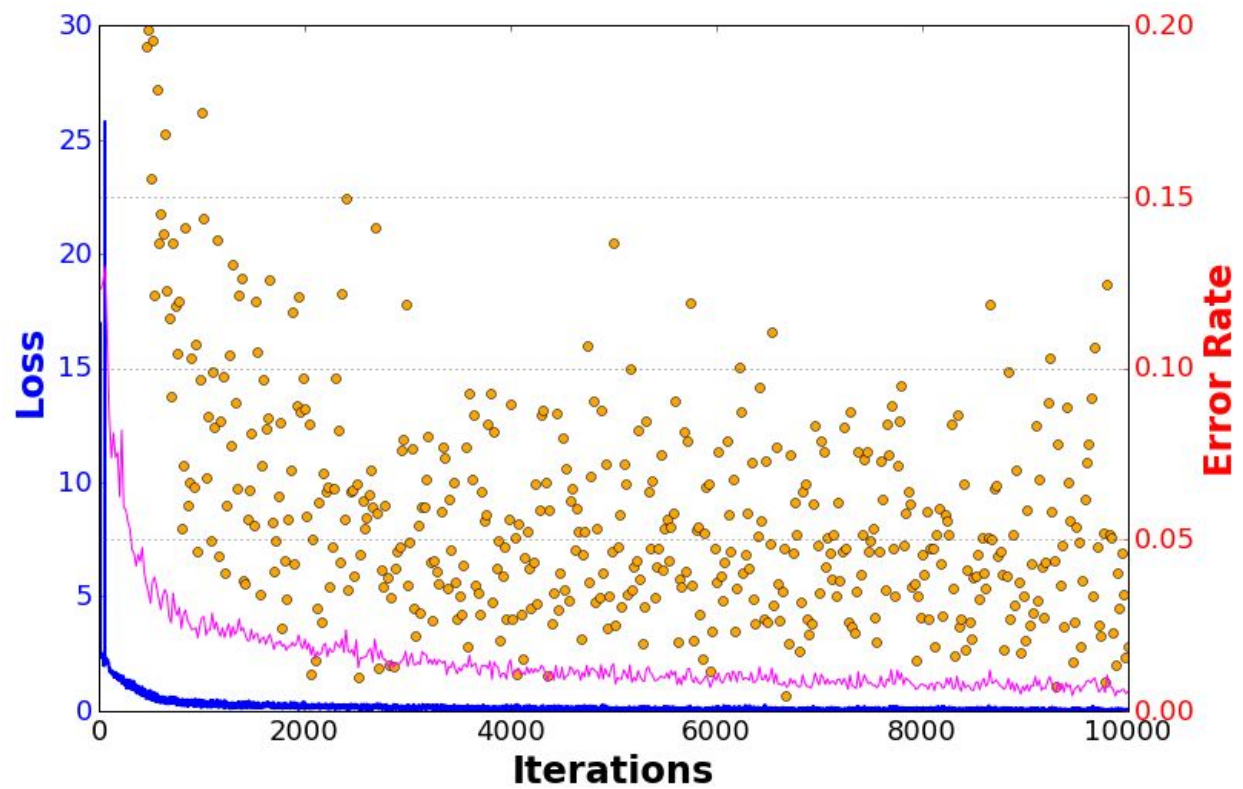
With BatchNorm:



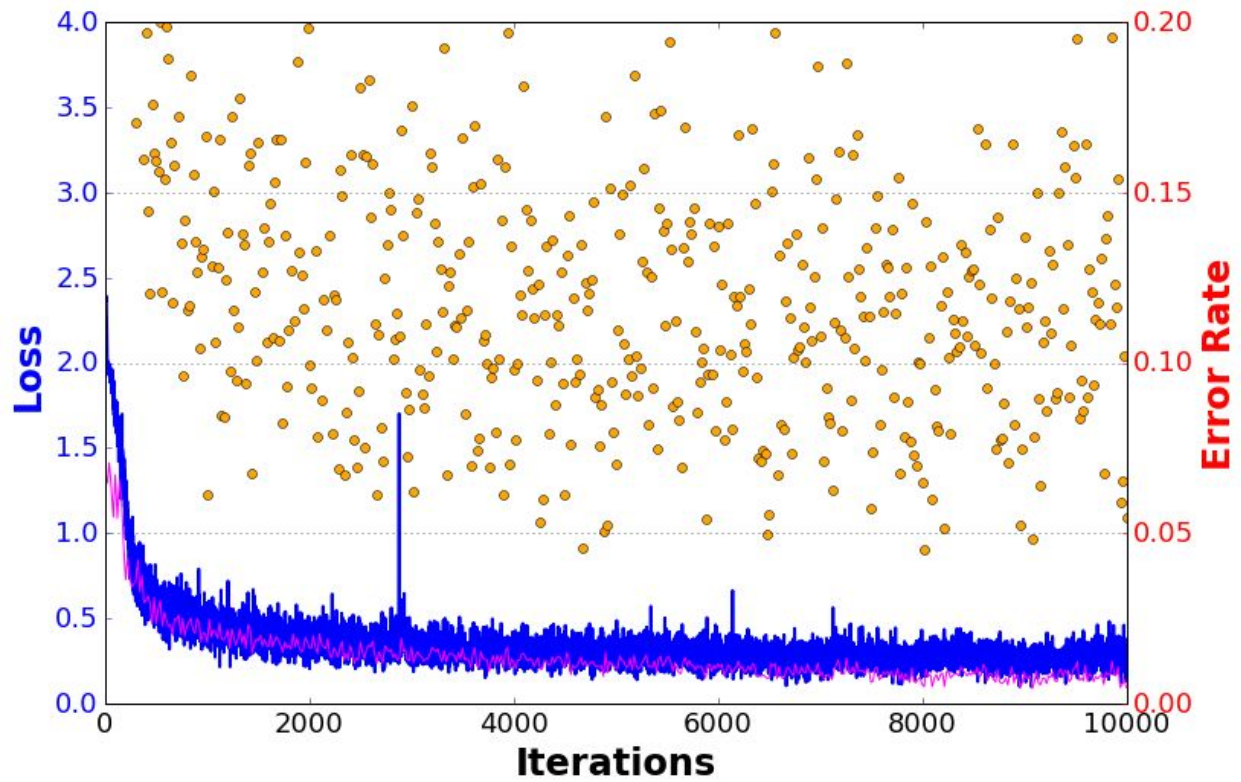


Without BatchNorm:

(note this example below's y-axis is not on the same scale as the BatchNorm trials, will fix in later diagrams)







On the example below, the spike is probably due to no batch norm and something like exploding gradients?

