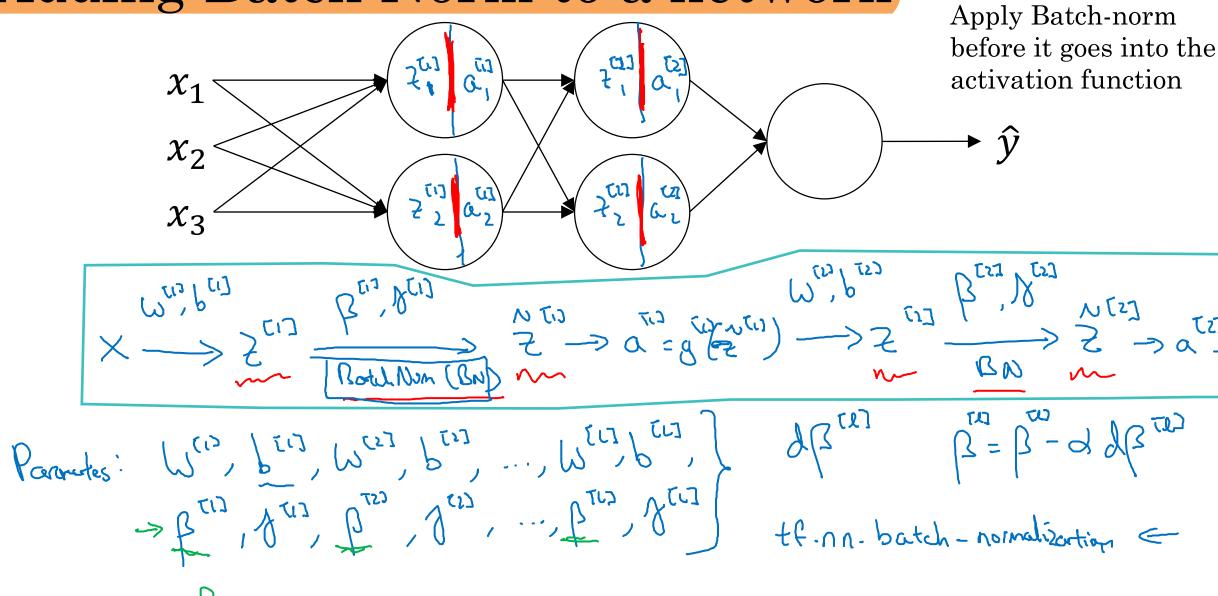


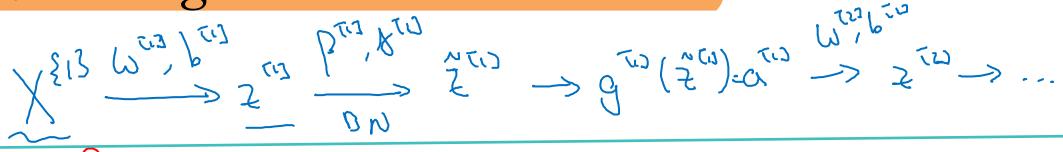
Batch Normalization

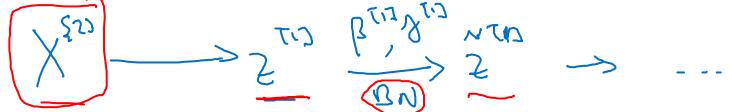
Fitting Batch Norm into a neural network

Adding Batch Norm to a network



Working with mini-batches





parameter b is useless in this case since it will be eliminated by batch-norm anyway.

$$\frac{2}{2} = \frac{1}{2} = \frac{1}$$

Implementing gradient descent

for t=1 num Mini Bortches Compute formal pap on X EtJ. Ih each hidden lay, use BN to report 2 with 2 Tell Updote partes WED:= Wind dwin Ban: = Ban a Min Works w/ moment, RMSpap, Adam.