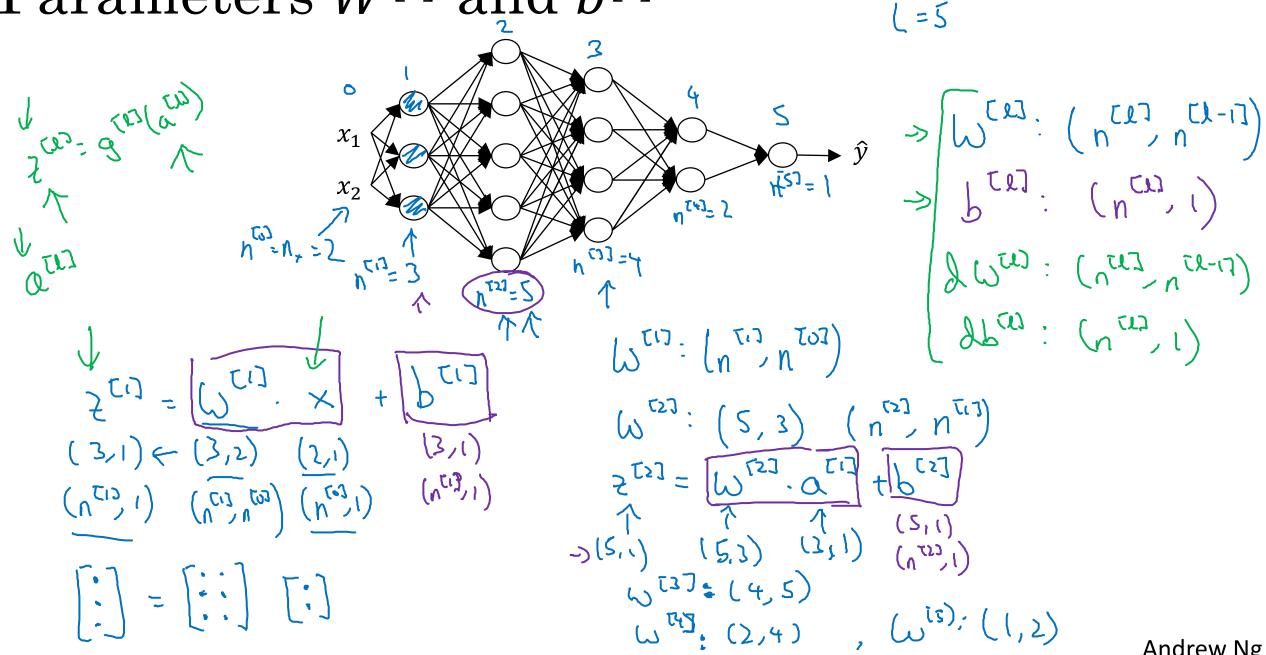


deeplearning.ai

Deep Neural Networks

Getting your matrix dimensions right

Parameters $W^{[l]}$ and $b^{[l]}$

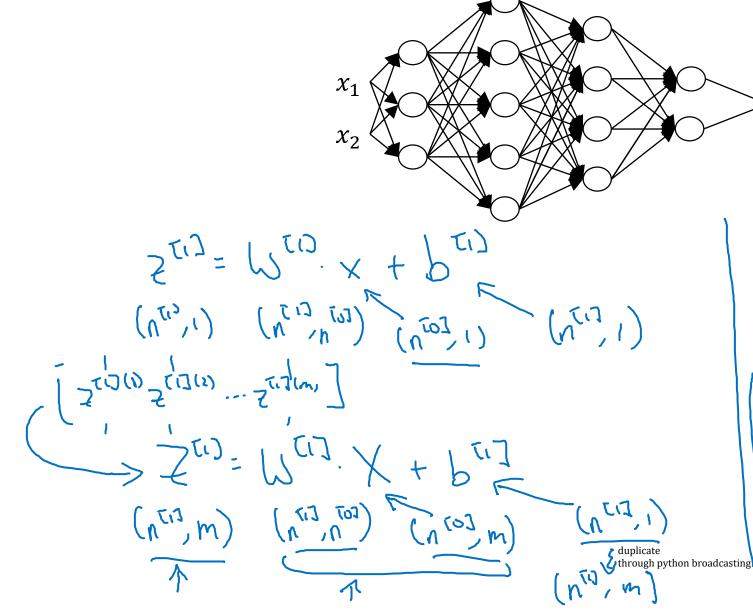


Andrew Ng

Vectorized implementation

When you implement back-propagation for deep neural network, so long as you work through your code, make sure that all the matrices dimensions are consistent that will usually help you so some ways toward eliminating some cause of possible bugs.

 $z^{(l)}, \alpha^{(l)} : (\alpha^{(l)}, l)$



$$A^{\text{TD}}$$
: (n^{TD}, m)
 A^{TD} : (n^{TD}, m)
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