

## Optimization Algorithms

## Adam optimization algorithm

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## Hyperparameters choice:

$$\rightarrow$$
 d: needs to be tune  
 $\rightarrow$   $\beta_i$ : 0.9  $\rightarrow$  (dw)  
 $\rightarrow$   $\beta_2$ : 0.999  $\rightarrow$  (dw²)  
 $\rightarrow$   $\Sigma$ : 10-8

Adam: Adaptiv moment estimation



**Adam Coates**