

$$\begin{array}{ccccccc}
 X & \xleftarrow{W_1^T} & H_1 & \xleftarrow{O_1(1-O_1)} & O_1 & \xleftarrow{W_2^T} & H_2 & \xleftarrow{O_2(1-O_2)} & O_2 & \xleftarrow{W_3^T} & \hat{y} & \xleftarrow{(\hat{y}-y)} & \text{MSE} \\
 & \downarrow X^T & & & & \downarrow O_1^T & & & & \downarrow O_2^T & & &
 \end{array}$$