

$$\begin{array}{c} X \\ \left[ \begin{array}{c} x_1 \\ x_2 \\ x_3 \\ x_4 \\ \vdots \\ x_N \end{array} \right] \\ N \times d \end{array} \times \begin{array}{c} \left[ \begin{array}{c} \phantom{x_1} \\ \phantom{x_2} \\ \phantom{x_3} \\ \phantom{x_4} \\ \phantom{\vdots} \\ \phantom{x_N} \end{array} \right] \\ d \times d \\ W^V \end{array} = \begin{array}{c} V \\ \left[ \begin{array}{c} v_1 \\ v_2 \\ v_3 \\ v_4 \\ \vdots \\ v_N \end{array} \right] \\ N \times d \end{array}$$