

Examples:

$$- q^T = [1 \ 1 \ 0 \ 0] \quad \text{with } b^{(0)} = \begin{bmatrix} \mu_0 \\ \alpha_1 \\ \alpha_2 \\ \alpha_3 \end{bmatrix}$$

$$q^T \cdot b^0 = [1 \ 1 \ 0 \ 0] \begin{bmatrix} \mu_0 \\ \alpha_1 \\ \alpha_2 \\ \alpha_3 \end{bmatrix} = \mu_0 + \alpha_1$$

$$\text{with } t^T E(y) = t^T X b^0 =$$

$$\begin{bmatrix} 1 & 1 & & \\ & & & \end{bmatrix} \begin{matrix} t^T \\ x \end{matrix} \begin{bmatrix} 1 & 1 & 0 & 0 \\ 1 & 1 & 0 & 0 \\ 1 & 1 & & \end{bmatrix} \begin{bmatrix} \mu_0 \\ \alpha_1 \\ \alpha_2 \\ \alpha_3 \end{bmatrix}$$

$$\underbrace{\begin{bmatrix} 1 & & & \end{bmatrix}}_{t^T} \underbrace{\begin{bmatrix} 1 \\ & & & \end{bmatrix}}_{q^T}$$