

# General Formula for the OLS Parameters in Matrix Notation

$$\hat{\beta} = (X'X)^{-1}X'Y = \beta + (X'X)^{-1}X'e$$

or,

$$\begin{bmatrix} \beta_0 \\ \beta_1 \\ \cdot \\ \cdot \\ \beta_k \end{bmatrix} = \begin{bmatrix} N & \sum X_{1j} & \cdot & \cdot & \sum X_{kj} \\ \sum X_{1j} & \sum X_{1j}^2 & \cdot & \cdot & \sum X_{1j}X_{kj} \\ \cdot & \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot & \cdot \\ \sum X_{kj} & \sum X_{1j}X_{kj} & \cdot & \cdot & \sum X_{kj}^2 \end{bmatrix}^{-1} \begin{bmatrix} \sum Y_j \\ \sum Y_j X_1 \\ \cdot \\ \cdot \\ \sum Y_j X_k \end{bmatrix}$$

$(X'X)^{-1}$  is singular in presence of perfect multicollinearity ;  $|X'X| = 0$  . Therefore  $\hat{\beta}$  cannot be estimated.

# Ols In Matrix Form Stanford University

**Zhe Xu**



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