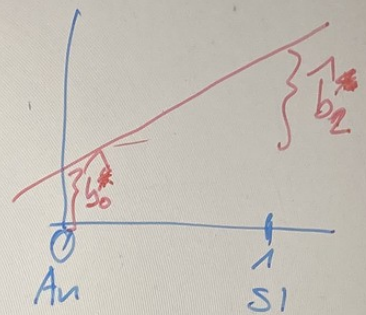


□ Difference between body weight of  $S_i$  and  $A_n$ ; ④  
 +  $M_{AN}$  as before

+  $M_{Si}$  as group mean of body weight of  $S_i$   
 animals

$$\begin{bmatrix} M_{AN} \\ M_{Si} \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix} \cdot \begin{bmatrix} b_0 \\ b_1 \\ b_2 \end{bmatrix}$$



□ Combine :

$$m = \begin{bmatrix} M_{AN} \\ M_{Si} \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix} \cdot \begin{bmatrix} b_0 \\ b_1 \\ b_2 \end{bmatrix} = L^T \cdot b$$

unknown  $\rightarrow$  solve for  $\hat{b}$

$$(L^T)^{-1} \cdot m = \hat{b}$$

contains estimable functions