Dataset

Animal	$y_{i,1}$	$y_{i,2}$	$y_{i,3}$	$\cdots$	$y_{i,M}$	$\tilde{y}_i^A$
1	$y_{1,1}$	$y_{1,2}$	$y_{1,3}$	$---$	$y_{1,M}$	$\tilde{y}_1 = \frac{1}{M}\sum_{k=1}^{M} y_{1,k}$
2	$y_{2,1}$	$y_{2,2}$	$y_{2,3}$	$--$	$y_{2,M}$	$\tilde{y}_2$
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N	$y_{N,1}$	$y_{N,2}$			$y_{N,M}$	$\tilde{y}_N$

□ Regression

Regression Line
of breeding values
on average of
repeated observations
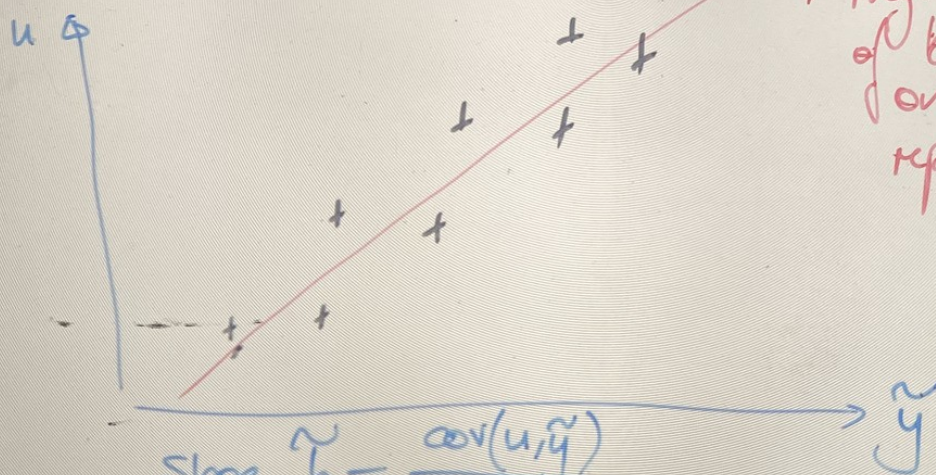
Slope $\tilde{b} = \dfrac{cov(u, \tilde{y})}{var(\tilde{y})}$

Predicted breeding value: $\hat{u}_i = \tilde{b}(\tilde{y}_i - \mu)$