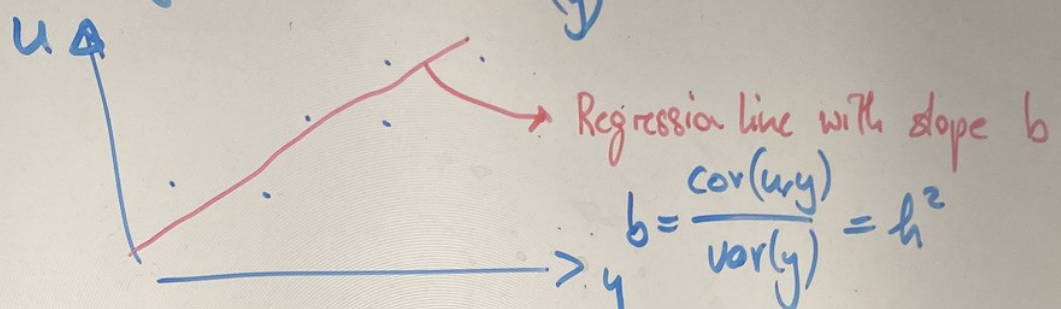


Prediction based on different sources of information

- Own performance: Predicted breeding values based on Regression of true breeding values on phenotypic observation (y)



For animal i , $\hat{u}_i = h^2(y_i - \bar{y})$

- Repeated observations of the same trait
Regression of u on \tilde{y}

- Offspring performance: Prediction of breeding value for animal i based on performance of offsprings of i

- All available information used in prediction of breeding values \Rightarrow BLUP $\begin{cases} \rightarrow \text{site model} \\ \rightarrow \text{animal model} \end{cases}$