

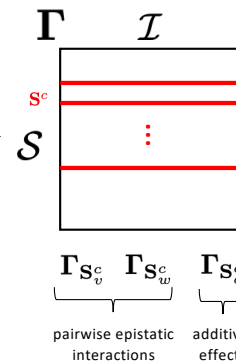
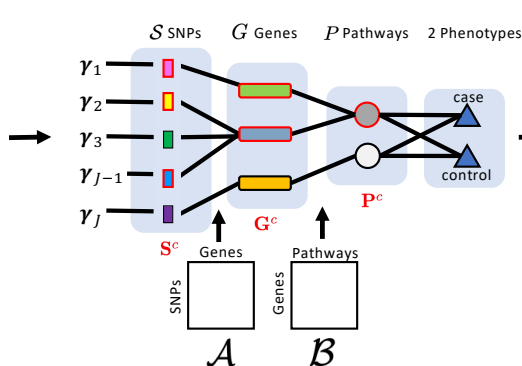
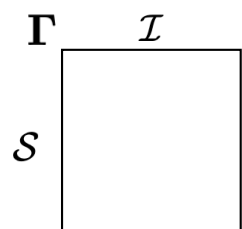
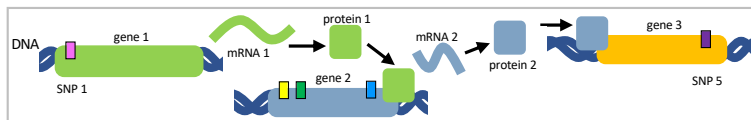
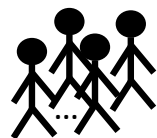
Generate Γ

Select \mathcal{C} causal features

Calculate \mathbf{Z}

\mathcal{I} Population Individuals

Biological System of \mathcal{S} SNPs

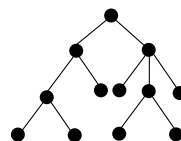
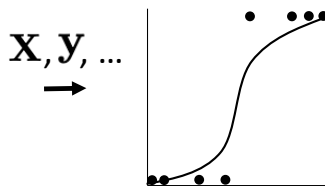
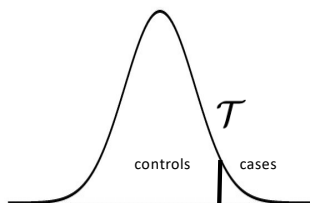


$$\mathbf{Z} = \mathbf{z}_{epi} + \mathbf{z}_{add} + \mathbf{z}_{err}$$

Calculate \mathcal{T} and sample \mathbf{X} and \mathbf{Y}

Run logistic regression and random forest

Calculate classification AUC and interpretation ROC curve



LR: 60% AUC
RF: 80% AUC

