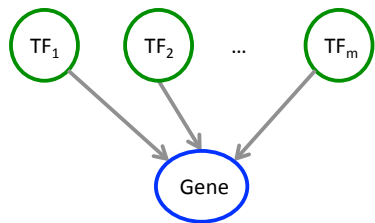


Use ElasticNet to find candidate regulators of each gene

Estimate gene-TF and gene-phenotype p-values

Obtain posterior probabilities for each TF-gene-phenotype

Form the phenotype-relevant TRN using posterior probabilities



$$\min_w \frac{1}{2n_{\text{samples}}} \|Xw - y\|_2^2 + \alpha \rho \|w\|_1 + \frac{\alpha(1-\rho)}{2} \|w\|_2^2$$

