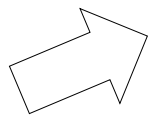
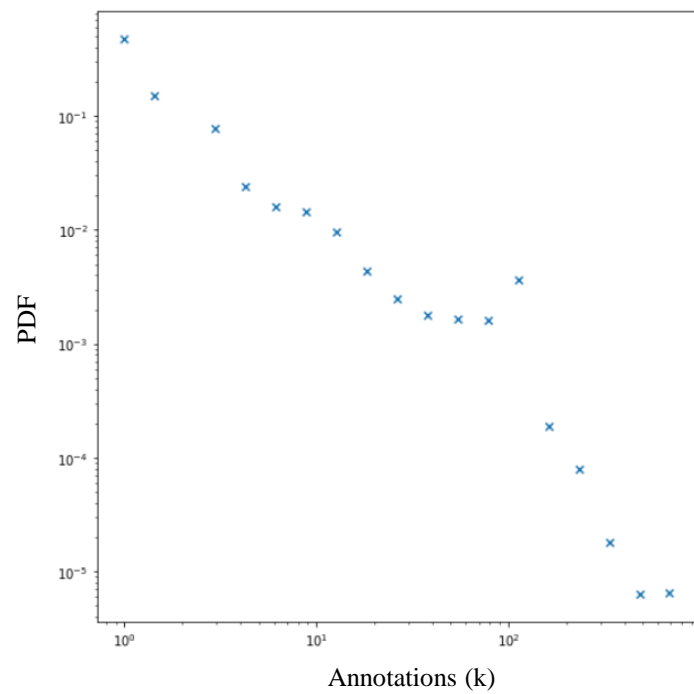
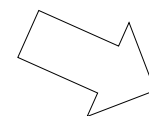
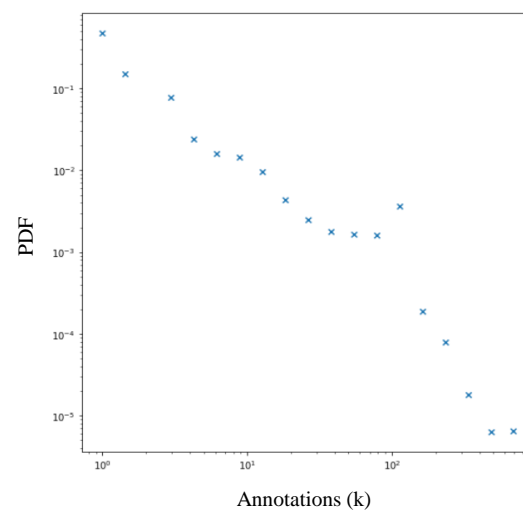
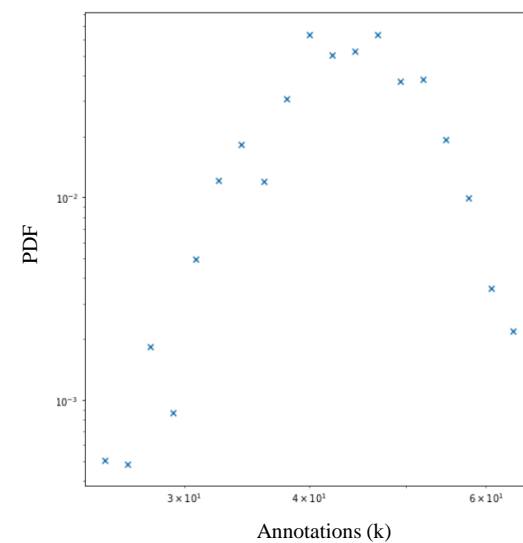
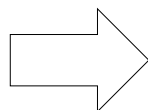
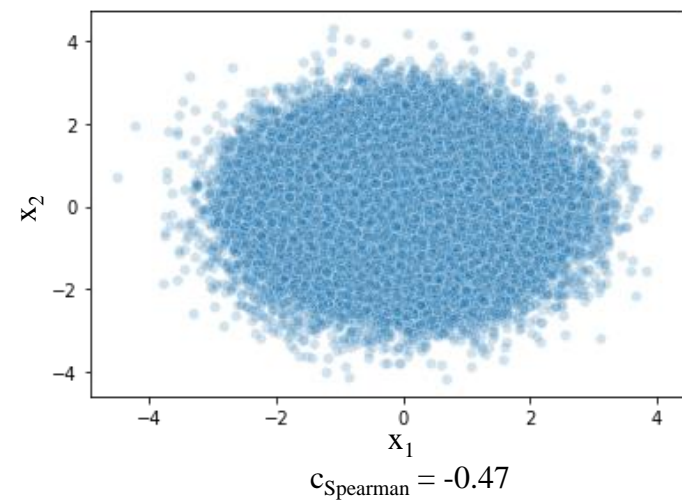


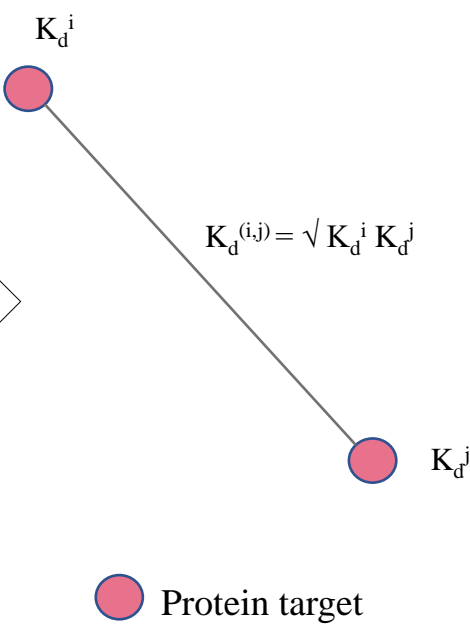
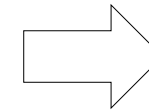
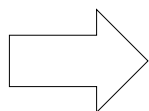
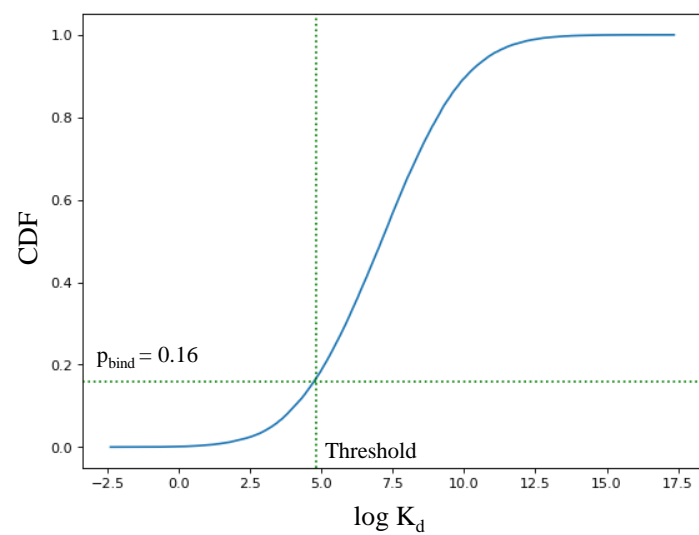
A*Benchmark BindingDB data*

Target degree sequence

 $\{d_1, d_2, \dots, d_N\}$ *Configuration Model*Power-law degree distribution with $\gamma=2.8$ *ER Graph*Poisson degree distribution with $\langle k \rangle = 47$ **B***Gaussian Copulas* $c_{\text{Spearman}} = 0$ 

$$k = \text{degree_seq_CDF}^{-1}(U_1)$$

$$\langle K_d \rangle = \langle \log K_d \rangle + \text{STD}(\log K_d) * \text{Gaussian_CDF}^{-1}(U_2)$$

$$K_d = \exp(\text{Gaussian}(\langle K_d \rangle, \text{STD}(k)))$$
**C** $K_d^{(i,j)} < \text{Threshold}$

Positive Edge

 $K_d^{(i,j)} \geq \text{Threshold}$

Negative Edge

