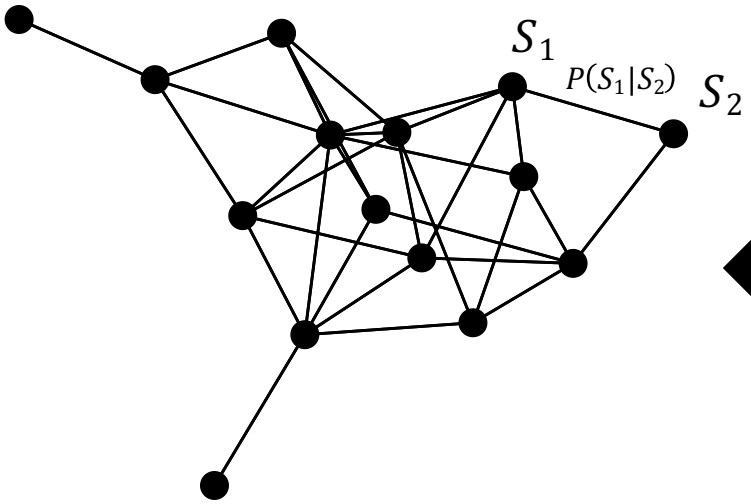
Sp1	Sp2	Sp3	Sp4	Sp5	…
0	0	1	1	1	
1	0	1	0	1	
1	1	1	0	0	
0	0	0	0	0	
…	…	…	…	…	

N



$$P(S_i) = \frac{1}{N} \cdot \sum(S_i)$$

$$E[P(S_iS_j)] = P(S_i) \cdot P(S_j)$$

$$\mathrm{Var}[P(S_iS_j)] = N \cdot E[P(S_iS_j)] \cdot (1 - E[P(S_iS_j)])$$

$$CI_{95\%} = N \cdot P(S_iS_j) \pm Z_{95\%} \cdot \mathrm{Var}\big(P(S_iS_j)\big)$$

$$P(S_i|S_j) = \frac{P(S_iS_j)}{P(S_j)}) = 0 \text{ , if } CI_L \leq S_iS_j \leq CI_U$$