
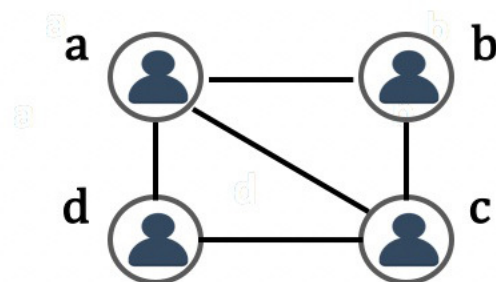


### (a) Deterministic Graph

 Name: Ana  
Degree: 3

Adversary Knowledge



Released Graph



$$P(d_a = 3) = 1$$

$$P(d_c = 3) = 1$$

$$P(a|Ana) = P(c|Ana) = 0.5$$

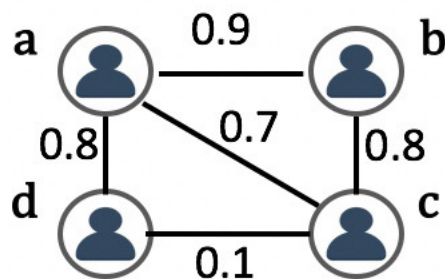
Re-identification with **little confidence**

Privacy Risk

### (b) Uncertain Graph

 Name: Ana  
Degree: 3

Adversary Knowledge



Released Graph



$$P(d_a = 3) = 0.9 * 0.7 * 0.8$$

$$P(d_c = 3) = 0.1 * 0.7 * 0.8$$

$$P(a|Ana) \gg P(b|Ana)$$

Re-identification with **high confidence**

Privacy Risk