

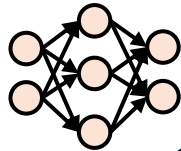


**Model holder**

Training data



Target model



**Attacker**

Calibration data



Calibration score



**Score Function**



+ Target model

Test data  $x_1, x_2, \dots, x_t$



Test score



**Conformal Procedure**

$s(x)$

$u(x)$



$$\frac{2}{n+1}$$

$$\frac{2}{n+1}$$

$$\frac{5}{n+1}$$

$$\frac{6}{n+1}$$

● Test  
● Calibration

Dependent  
p-values

$u(x_1),$

$u(x_2),$

$\dots,$

$u(x_t)$

Threshold  $\alpha$

**Multi-hypothesis Testing**

$u'(x_1),$

$u'(x_2),$

$\dots,$

$u'(x_t)$

$$u'(x) \leq \alpha$$

Yes

Member

No

Non-member

**MIA decision**