

**Unknown Function**

$$f : \Delta \rightarrow \Theta$$

**Input Distribution**

**Training Data**

$$((\delta^{(1)}, f(\delta^{(1)})), \dots, (\delta^{(N)}, f(\delta^{(N)})))$$

**Learned Output**

(parameterization)  
 $\theta : \Delta \rightarrow \Theta$

**Learning or  
Decision-Making  
Algorithm**

**Estimator Set**

(possible parameterizations)  
 $\Theta$

**Probabilistic Bound**