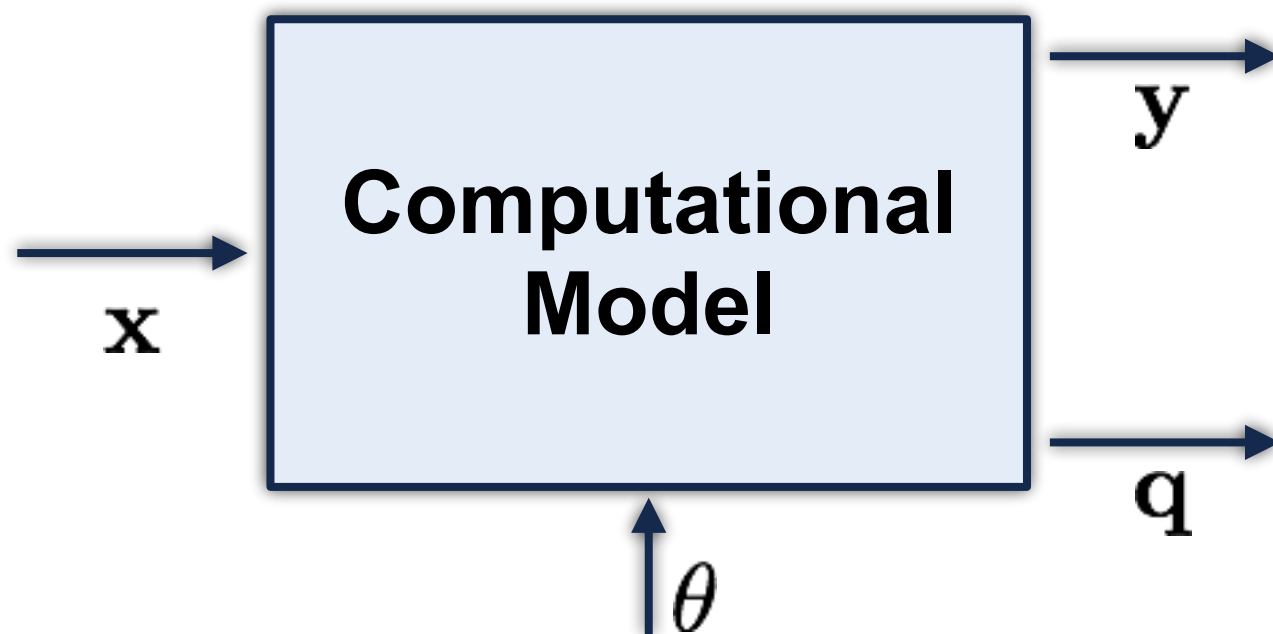


# Classic Approach to Validation

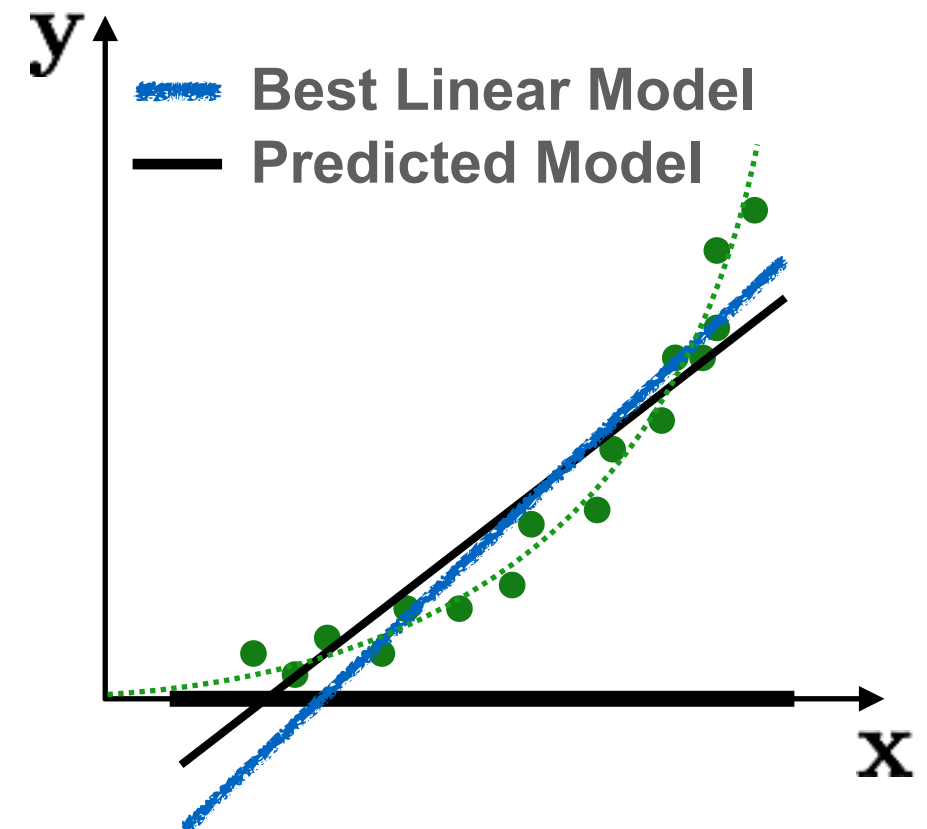
One approach [2] for taking into account the uncertainties on the predictions relies on “appending” a statistical model directly to the observable quantities:



The causes of the difference between the true value of the real world process and the code-value are:

- Experimental or Measurement or Observation Error: ● vs - - -
- Model Uncertainty or Structural Inadequacy: - - - vs ●
- Parameter Uncertainty: — vs - - -

→ Due to Embedded Model!



# The Predictive Validation Process

Alternatively, we can move the non-deterministic model upstream to the embedded component, which is the main source of uncertainty (generally).

