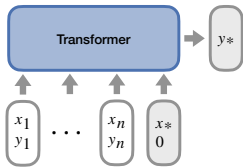


## Implicit model

$$p_{\theta}(y_* | x_*, D)$$



More flexible and expressive

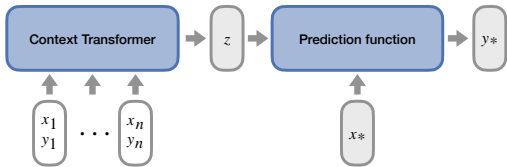
Inductive bias to disentangle latent variable inference from prediction



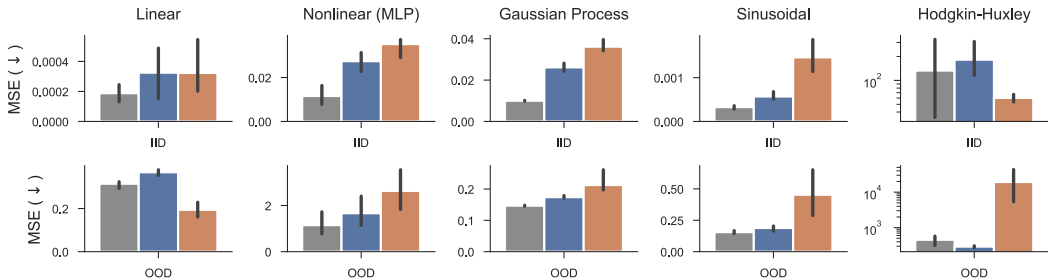
## Explicit model

$$z = f_{\theta}(D)$$

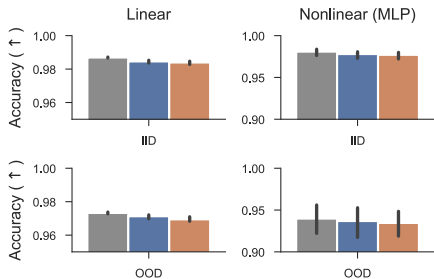
$$p_{\theta}(y_* | x_*, z)$$



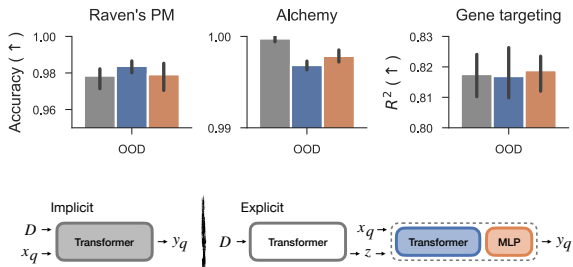
## a. Synthetic regression tasks

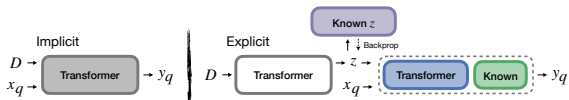
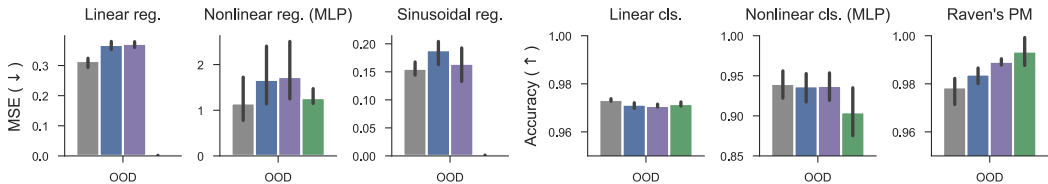


## b. Synthetic classification tasks

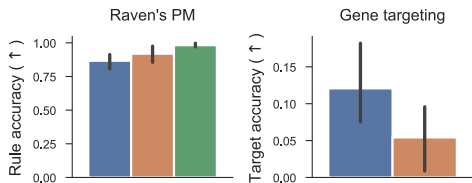
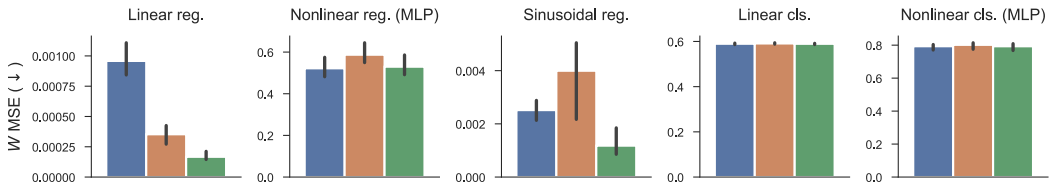


## c. Compositional tasks

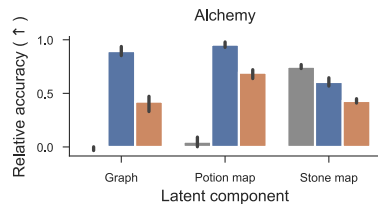




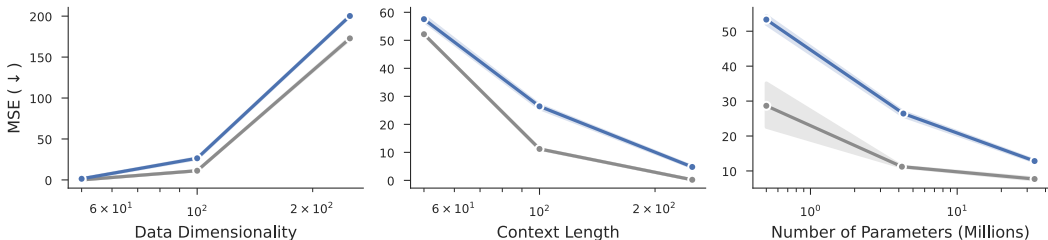
## a. Decoding the true latent $z$



## b. Counterfactual interventions



## a. Task performance (IID)



## b. Decoding the true latent $z$

