

C Emergent property inference (EPI) training objective

$$q_{\theta}^* = \arg\max_{q_{\theta} \in Q} H(q_{\theta})$$
 s.t. $E_{z \sim q_{\theta}} \left[E_{x \sim p(x|z)} \left[T(x) \right] \right] = \mu$ model parameter model samples simulations emergent property emergent property statistics constraints

Deep probability distribution

