/70

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A Bayesian latent-variable model optimized with variational inference

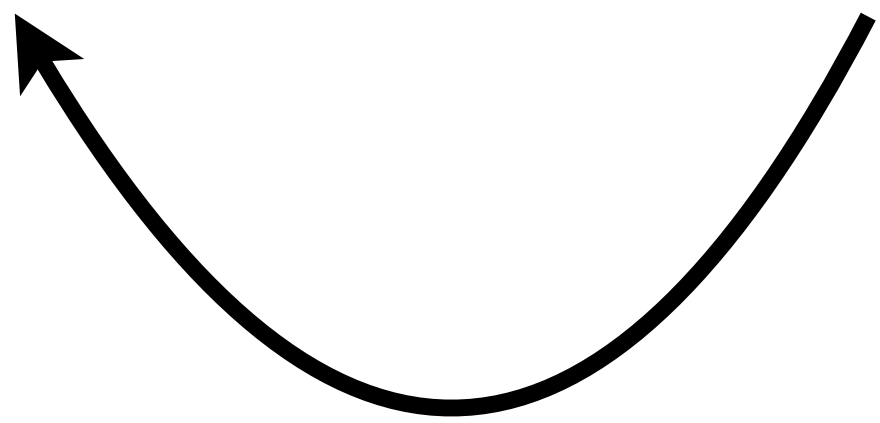

z
x
N

Maximizing ELBO

$\equiv$ Minimizing *reverse* KL

$\equiv$ "Aligning the forward and reverse processes"

Minimize $\left\langle \log \frac{q(x,z)}{p(x,z)} \right\rangle$



$$q_\varphi(z \mid x) \cdot p(x)$$

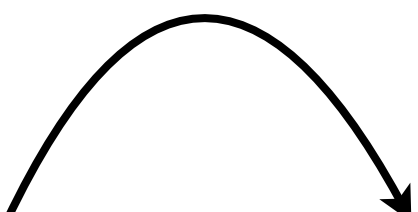
Forward process

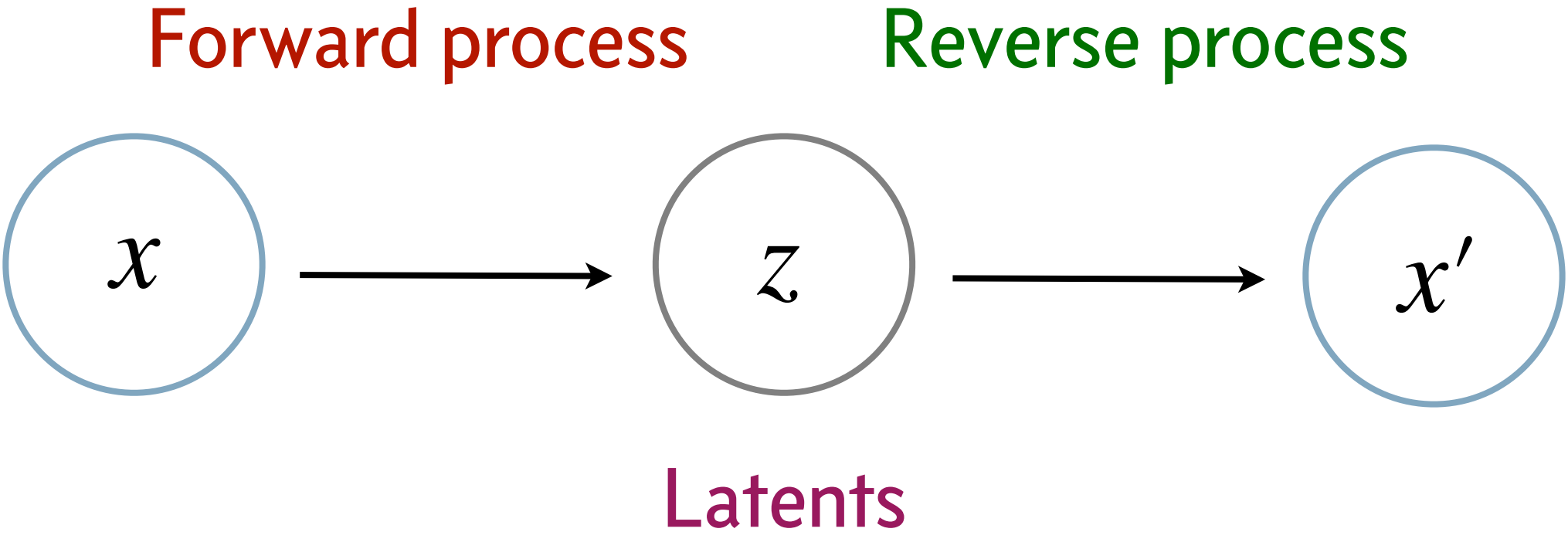
It's so over

We're so back

Reverse process

$$p_\vartheta\left(x \mid z\right) \cdot p(z)$$



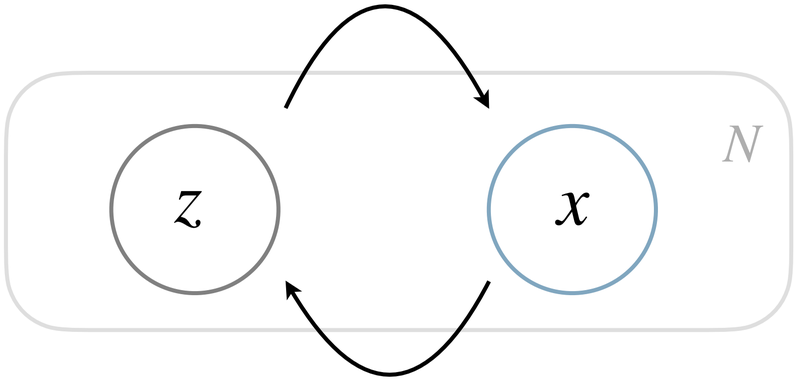

Forward process
Reverse process
x
z
x'
Latents

A Bayesian latent-variable model optimized with variational inference

We're so back

Reverse process

$$p_\vartheta\left(x \mid z\right) \cdot p(z)$$



$$q_\varphi(z \mid x) \cdot p(x)$$

Forward process

It's so over

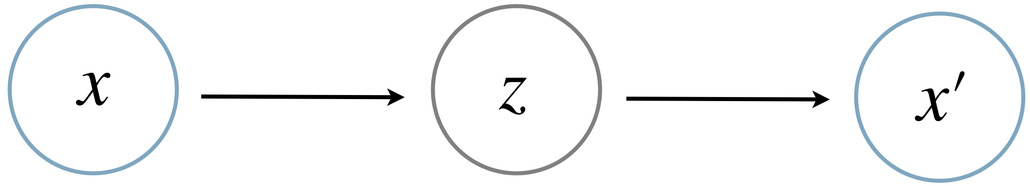
Maximizing ELBO

$\equiv$ Minimizing *reverse* KL

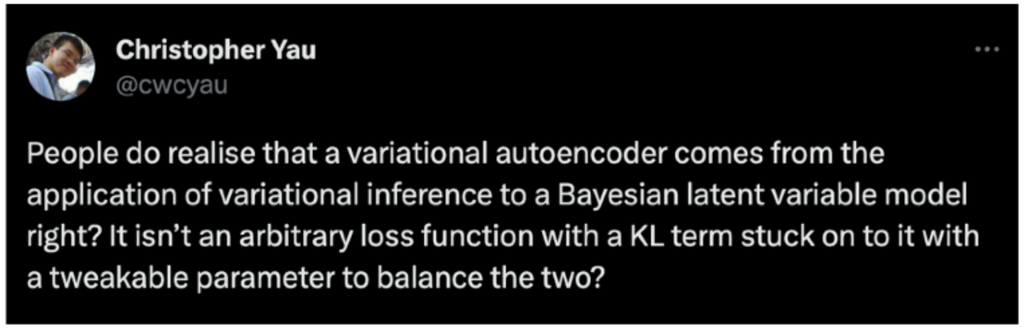
$\equiv$ "Aligning the forward and reverse processes"

Minimize $\left\langle \log \frac{q(x,z)}{p(x,z)} \right\rangle$

Forward process Reverse process



Latents



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