## The STOVE Model

Maximising the ELBO

$$\log p(x_{1:T}) \ge \mathbb{E}_{q(z_{1:T} \mid x_{1:T})} \left[ \log \frac{p(x_{1:T}, z_{1:T})}{q(z_{1:T} \mid x_{1:T})} \right] \propto \mathbb{E}_{q(z_{1:T} \mid x_{1:T})} \left[ \sum_{t=1}^{T} \log \left\{ \frac{p(x_{t} \mid z_{t}) p(z_{t} \mid z_{t-1})}{q(z_{t} \mid z_{t-1})} \right\} \right]$$

Generative Scene Generation Physics Physics

Inference Scene Inference