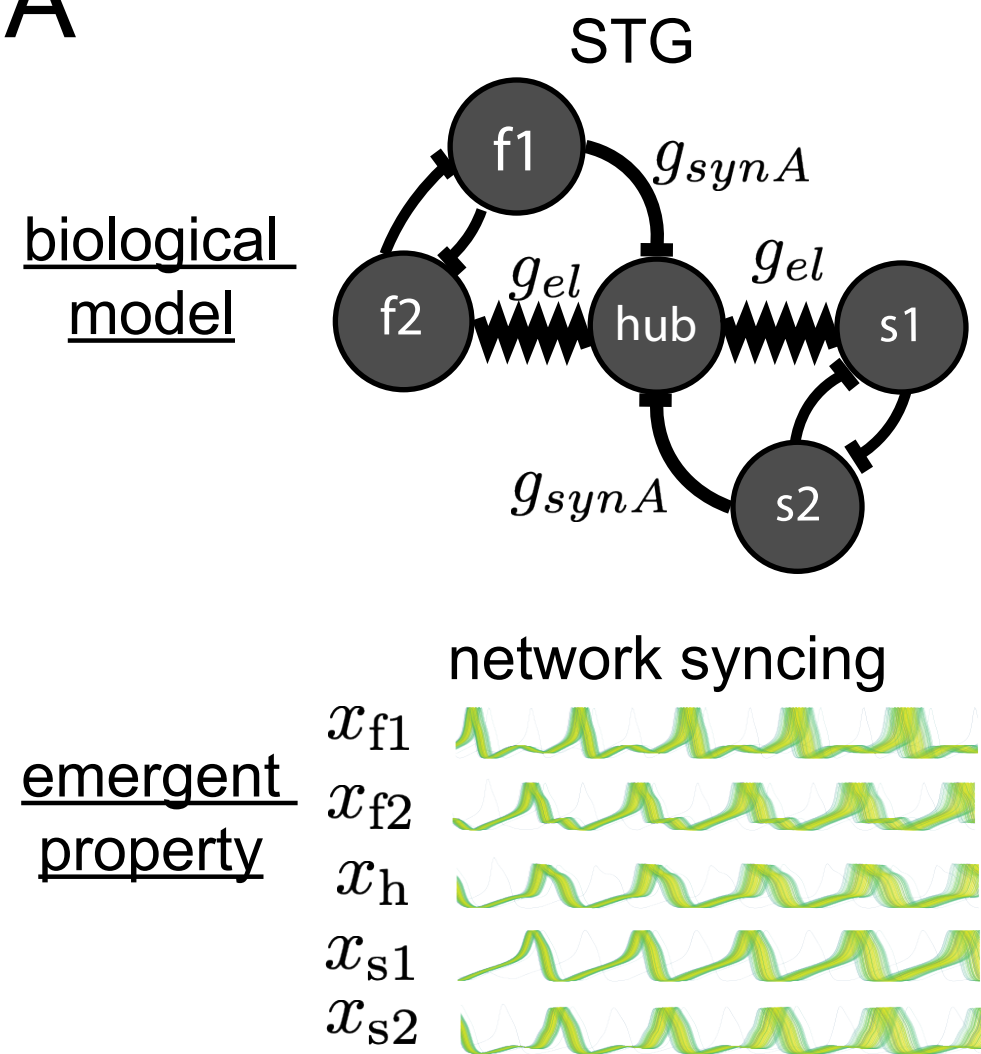
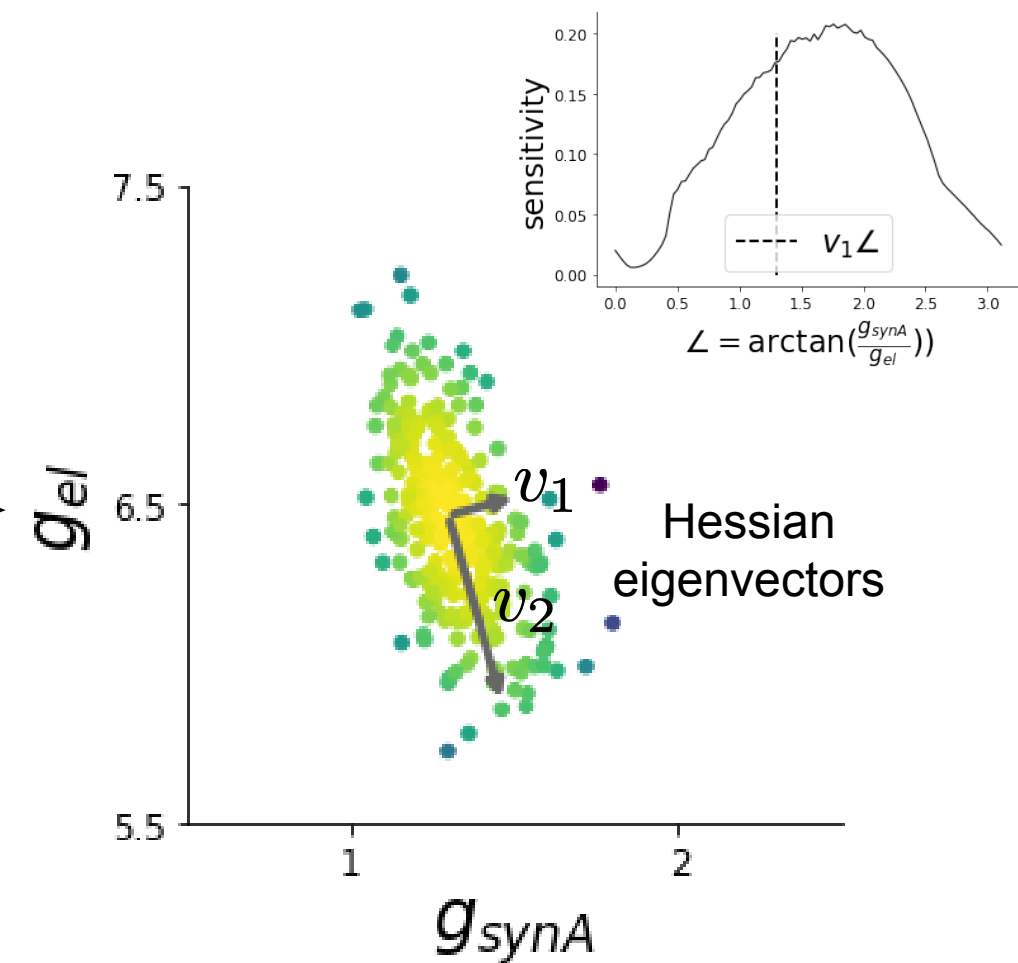


A



Emergent property inference (EPI)

B



C

Emergent property inference (EPI)

training objective

$$q_{\theta}^* = \arg \max_{q_{\theta} \in Q} H(q_{\theta})$$

$$\text{s.t. } \underbrace{E_{z \sim q_{\theta}}}_{\text{model parameter samples}} \left[\underbrace{E_{x \sim p(x|z)}_{\text{model simulations}} [T(x)] \right]_{\text{emergent property statistics}} = \underbrace{\mu}_{\text{emergent property constraints}}$$

D

Deep probability distribution

