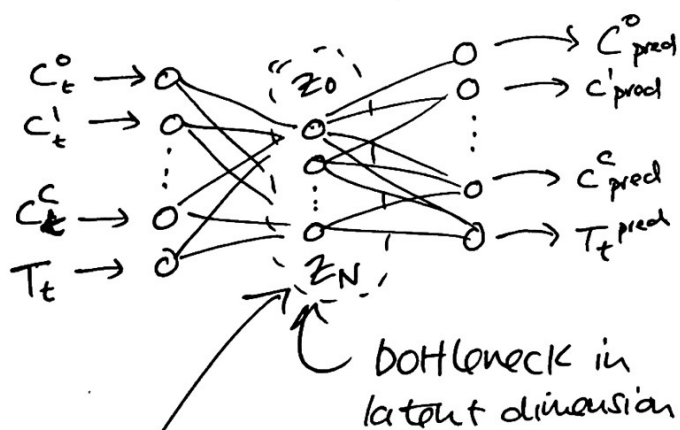


i.e.

$$D = \left\{ \underset{\substack{\uparrow \\ \text{input}}}{\text{data}[:, t:t+T]}, \underset{\substack{\uparrow \\ \text{predict this}}}{\text{data}[:, t+T+1:t+T+1+\Delta]} \right\}_{t=1:\text{len}(\text{data})}$$

$$= \{X_t, Y_t\}_{t=1:\text{len}(\text{data})}$$

With a network like:



AUTOENCODER  
TYPE THING

Visualize hidden unit  
activity over-time

Hypothesis:

- Some hidden units will be active over short durations, some over longer?
- Some may only be active in later trials?