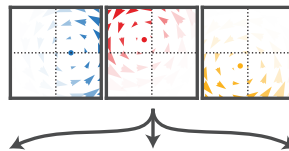


a. canonical
dynamics
library



b. shared
neural
embedding

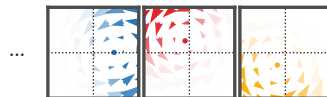
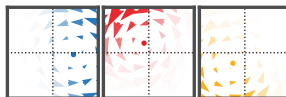
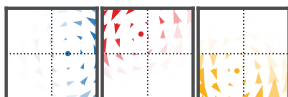


worm 1

worm 2

worm W

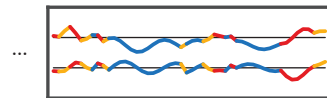
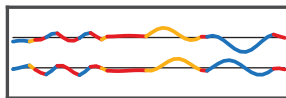
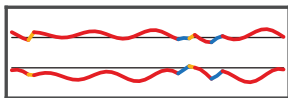
c. per-worm
dynamics
library



d. discrete
latent states



e. continuous
latent states

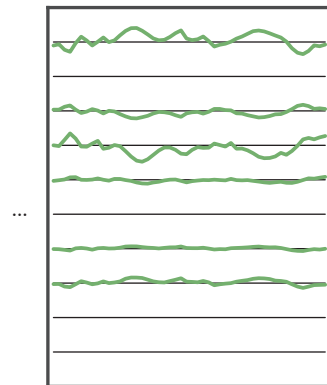
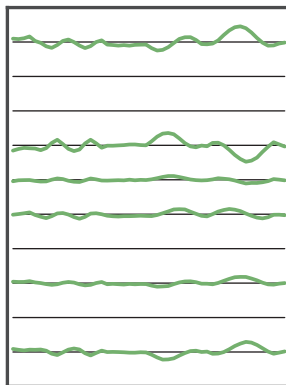
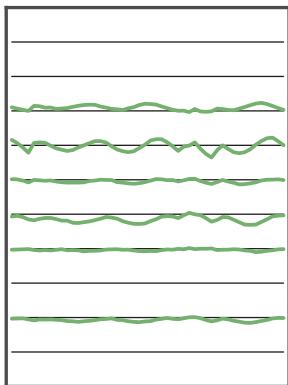


f.

neuron 1

observed
neural
activity

neuron N



time

time

time