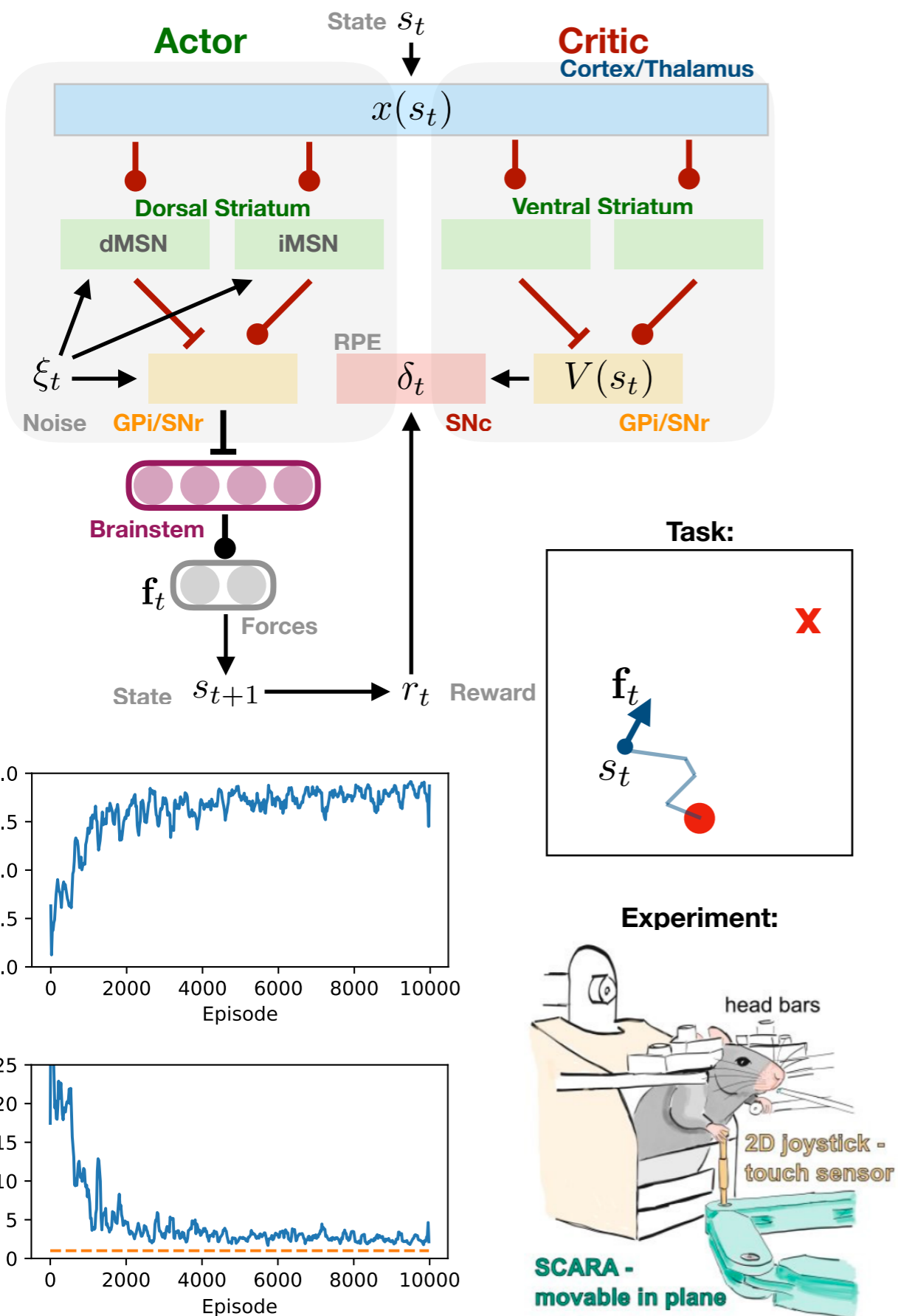
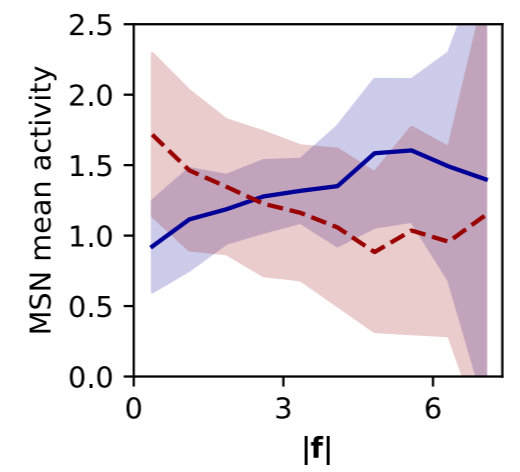
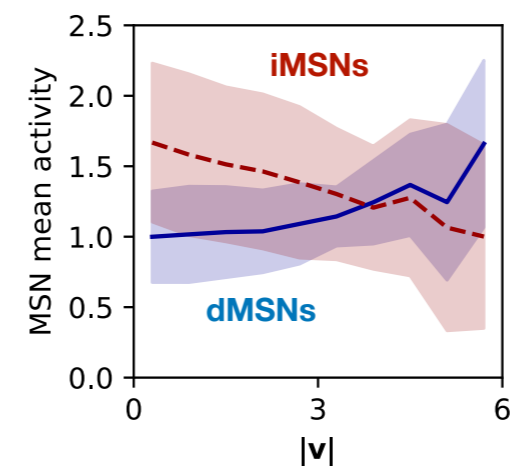


1. Inspired by mouse experiments, a neural network was trained to perform a 2D motor task.

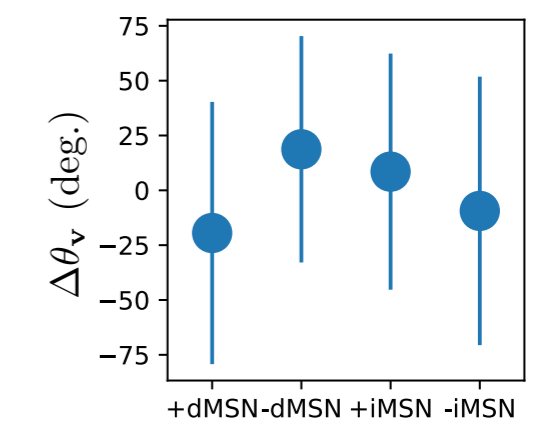
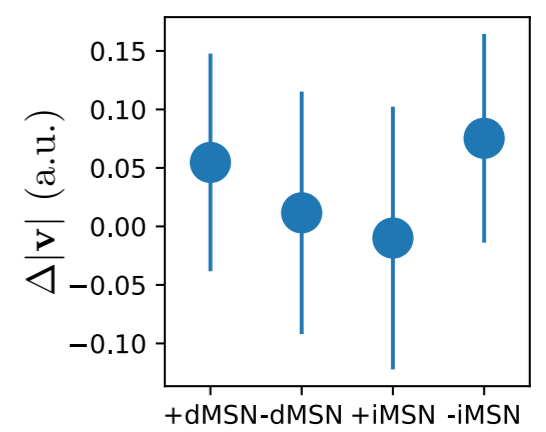


2. Neural activity of simulated medium spiny neurons was analyzed.

Correlation with movement speed and force:



Effects of simulated optogenetic perturbations on movement:



Tuning curves with respect to direction of movement or force:

