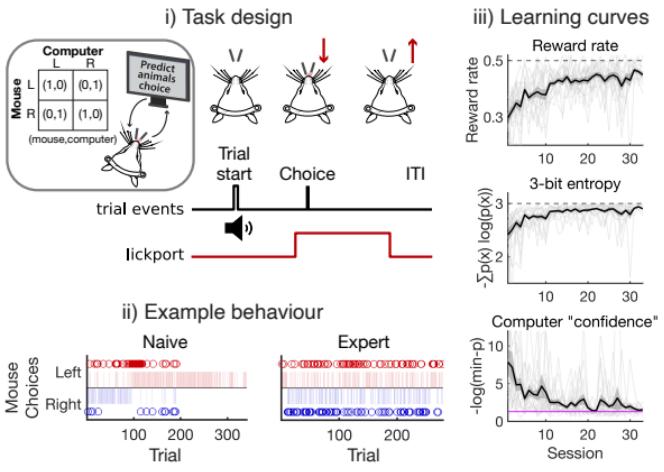
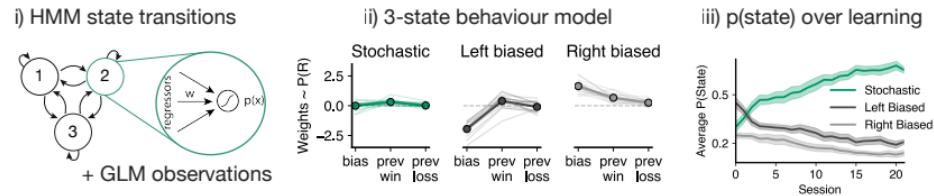


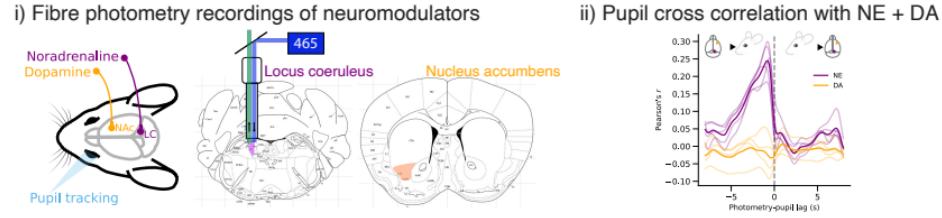
## A Matching Pennies game in head-fixed mice



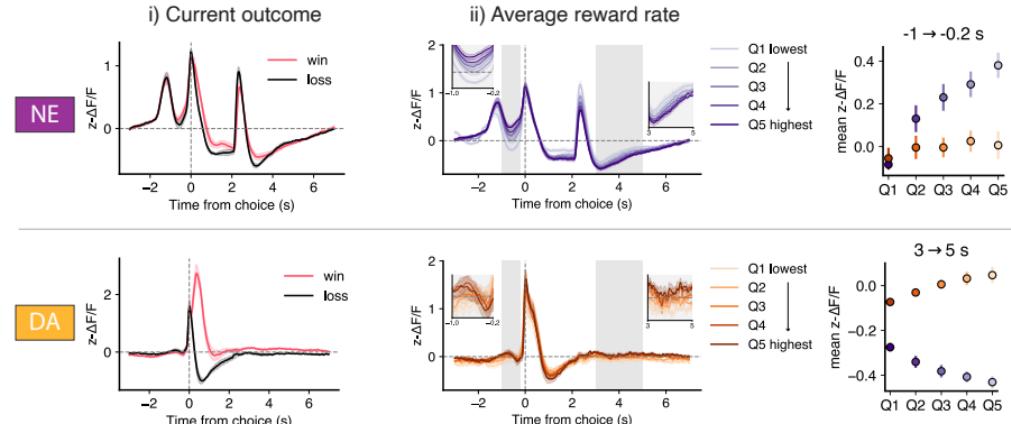
## B 3-state HMM-GLM describes changing strategies across learning



## C Noradrenaline and dopamine correlation with pupil fluctuations



## D NE captures salient task events in contrast to DA selectively responding to outcome information



## E NE signals strategy shifts shaped by outcomes

