neurally inferred time of commitment ("nTc") example trial p(commit | p(commit | clicks, clicks, choice, choice) spikes) 0.5 time from stimulus onset (s) 2000 trials 1000 nTc from stimulus onset (s) 2000 trials 1000 nTc from movement onset (s) d weight of clicks on choice inferred using logistic regression: predicted 0.4 observed -shuffled weight -0.2 -0.2 time relative to each trial's nTc (s) observed predicted trials fraction chose trials right without nTc -40 40 #right - #left clicks observed predicted trial fraction with nTc

(normalized) 0.5 (#R - #L)/(#R + #L)harder trials ↔ easier