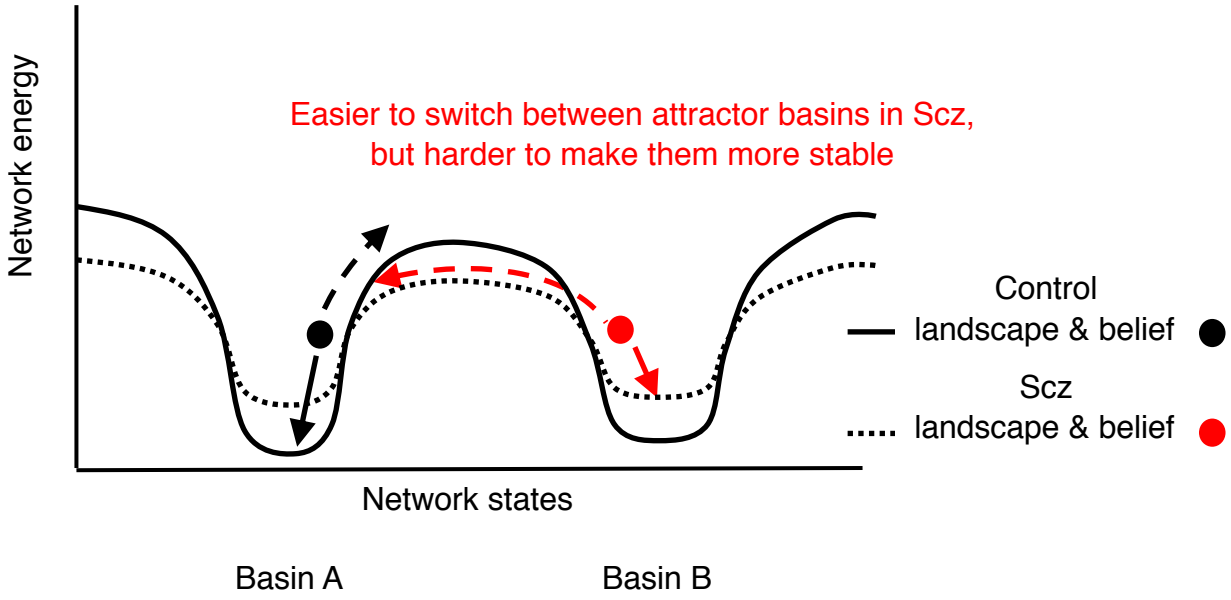
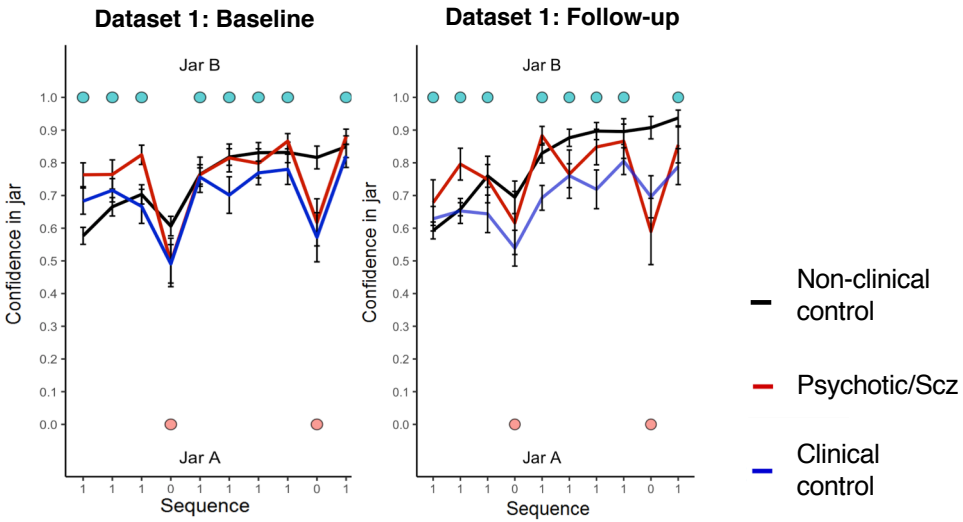
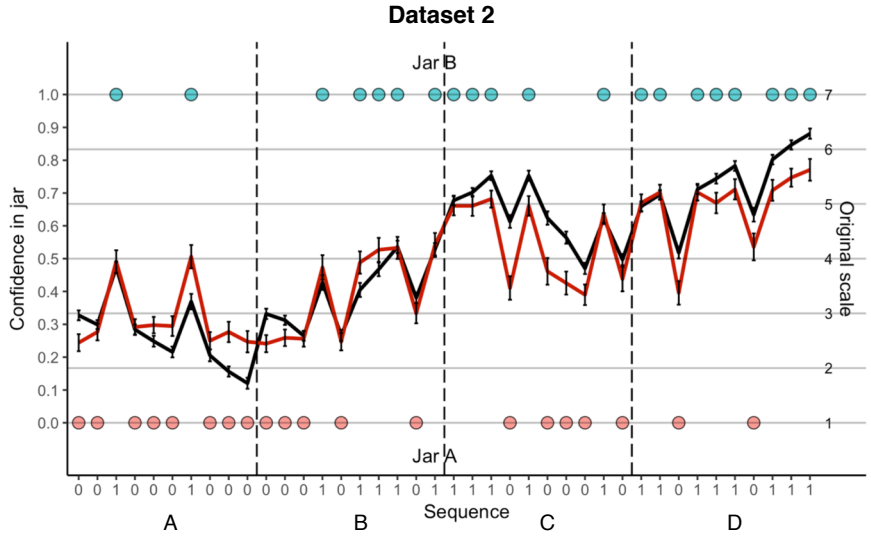
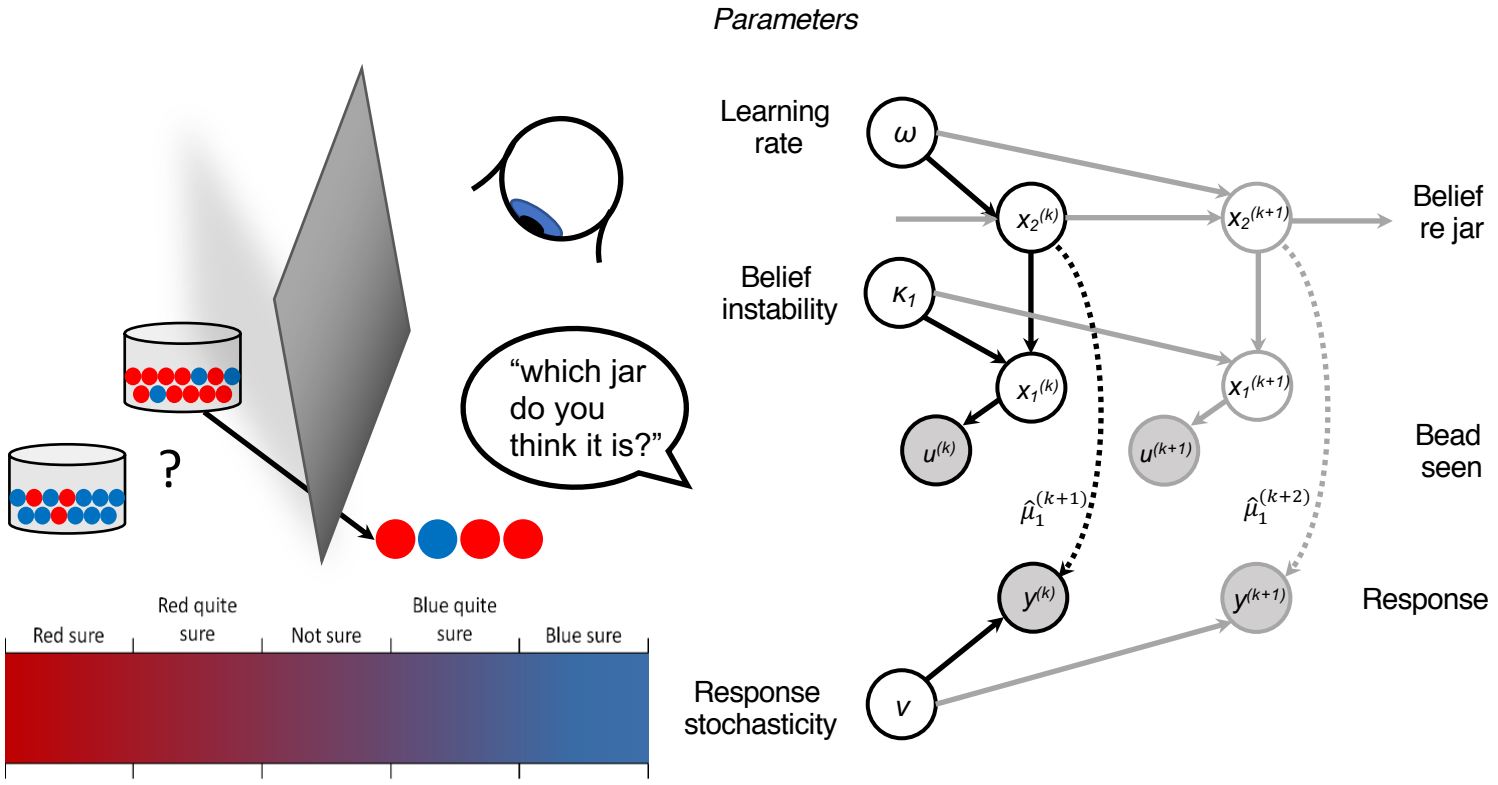
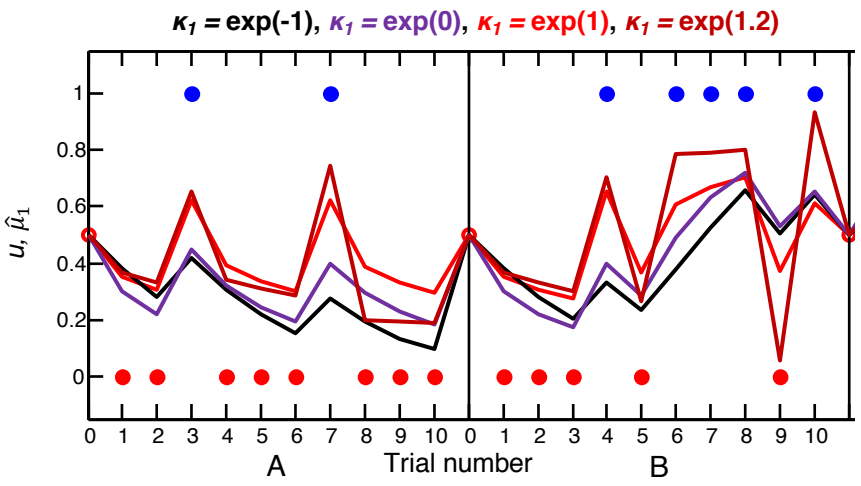
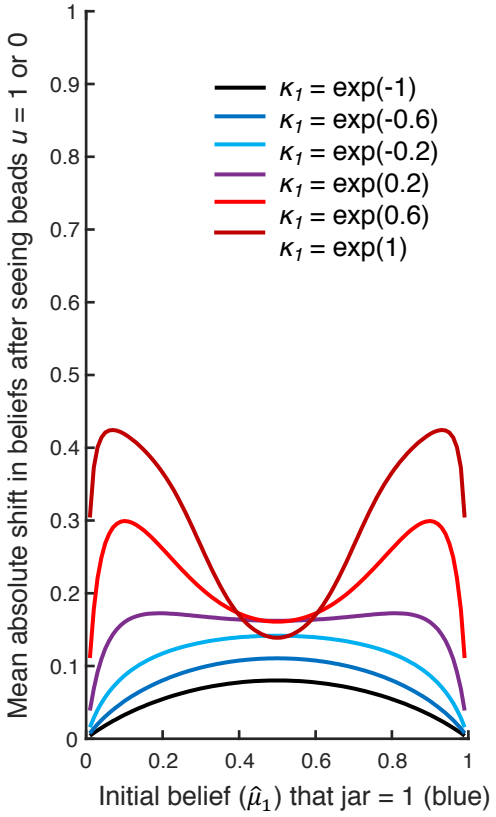

Network energy
Easier to switch between attractor basins in Scz,
but harder to make them more stable
Control
landscape & belief
Scz
landscape & belief
Network states
Basin A
Basin B

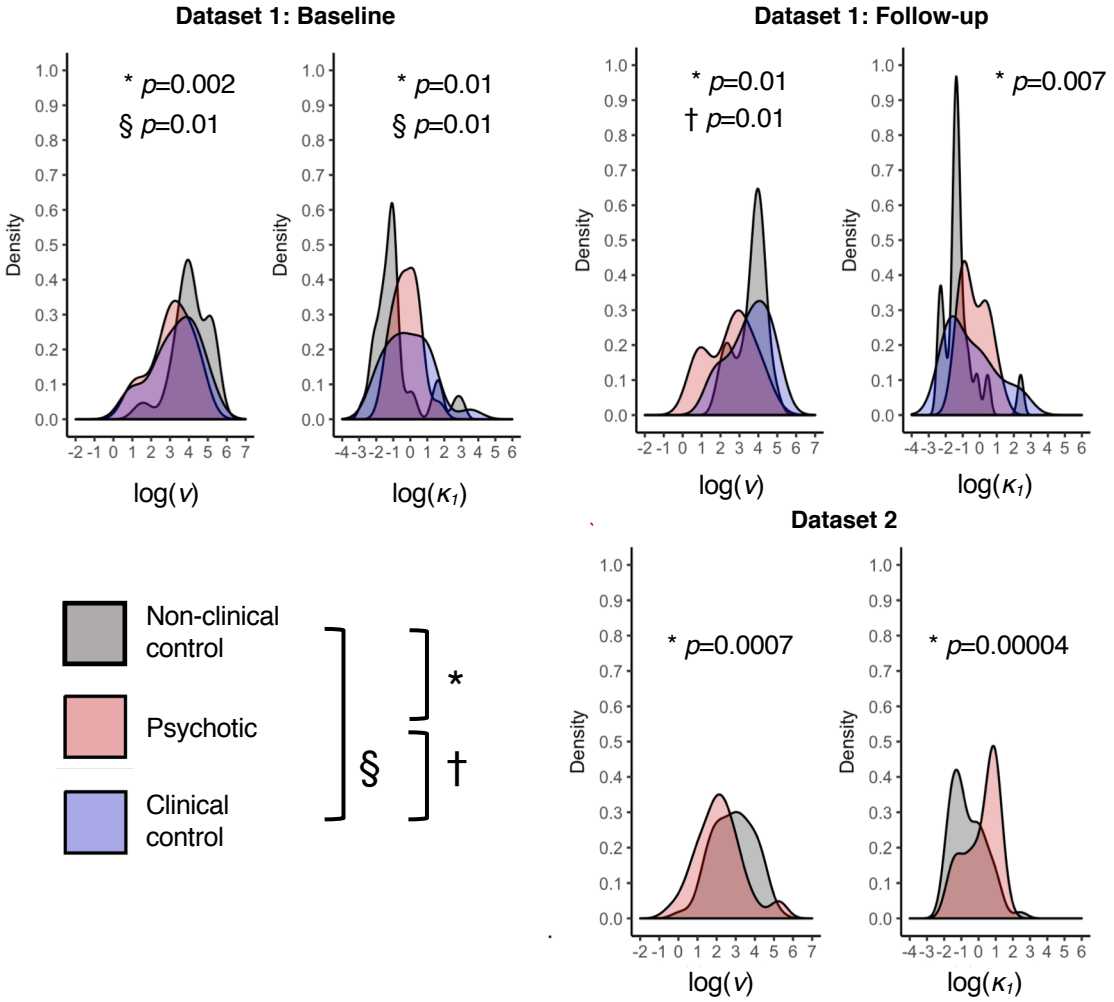

Dataset 1: Baseline
Dataset 1: Follow-up
Jar B
Jar A
Confidence in jar
Sequence
Non-clinical control
Psychotic/Scz
Clinical control


Dataset 2
Jar B
Jar A
Confidence in jar
Original scale
Sequence
A
B
C
D


Parameters
Learning rate
Belief instability
Response stochasticity
Belief re jar
Bead seen
Response
"which jar do you think it is?"
?
Red sure
Red quite sure
Not sure
Blue quite sure
Blue sure


κ_1 = exp(-1), κ_1 = exp(0), κ_1 = exp(1), κ_1 = exp(1.2)
u, $\hat{\mu}_1$
0
0.2
0.4
0.6
0.8
1
0 1 2 3 4 5 6 7 8 9 10
A
Trial number
0 1 2 3 4 5 6 7 8 9 10
B


Mean absolute shift in beliefs after seeing beads u = 1 or 0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0 0.2 0.4 0.6 0.8 1
Initial belief ($\hat{\mu}_1$) that jar = 1 (blue)
κ_1 = exp(-1)
κ_1 = exp(-0.6)
κ_1 = exp(-0.2)
κ_1 = exp(0.2)
κ_1 = exp(0.6)
κ_1 = exp(1)


Dataset 1: Baseline
* p=0.002
§ p=0.01
* p=0.01
§ p=0.01
Density
log(v)
log(κ1)
Dataset 1: Follow-up
* p=0.01
† p=0.01
* p=0.007
Dataset 2
* p=0.0007
* p=0.00004
Non-clinical control
Psychotic
Clinical control
*
§
†