

Supplementary Information

Predictor	t-value (df = 2746)	p-value
distance private	1.61	0.11
distance work	0.99	0.32
order	-0.64	0.53
learn performance private	-0.57	0.57
learn performance work	1.77	0.08
prev_seen work	-0.76	0.45
prev_seen private	-0.70	0.48
distance private*order	1.78	0.07
distance work*order	0.65	0.51
distance private*learn_perf private	3.70	<0.01
distance work*learn_perf_work	2.22	0.03
distance private*prev_seen private	3.90	<0.01
distance work* prev_seen work	1.61	0.11

Supplementary Table 1. Generalized linear mixed-effects model (GLME) with distance predictors separated by social category (private vs. work), entered simultaneously and irrespective of the current prime. DV: choice (left/right).

Predictor	t-value (df = 2745)	p-value
distance prime	-2.01	0.05
distance compete	-2.60	0.01
order	0.73	0.47
prev_seen prime	-0.89	0.37
prev_seen compete	-0.69	0.49
learn performance prime	-1.73	0.08
learn performance compete	2.38	0.02
distance prime*order	0.92	0.36
distance compete*order	2.08	0.04
distance prime*learn_perf prime	-1.67	0.10
distance compete*learn_perf_compete	-1.13	0.26

Supplementary Table 2. Generalized linear mixed-effects model (GLME) predicting reaction times during testing. DV: log RT of test phase.

Predictor	t-value (df = 2746)	p-value
distance prime	1.47	0.14
distance compete	1.19	0.23
order	2.39	0.02
learn performance prime	-0.02	0.98
learn performance compete	0.86	0.39
prev_seen prime	0.76	0.44
prev_seen compete	-1.51	0.13
distance prime*order	0.78	0.44
distance compete*order	-0.16	0.87
distance prime*learn_perf prime	4.89	<0.01
distance compete*learn_perf compete	3.07	<0.01
distance prime*prev_seen prime	-0.59	0.55
distance compete*prev_seen compete	-0.47	0.64

Supplementary Table 3. Generalized linear mixed-effects model (GLME). DV: Choice during ambiguity testing.

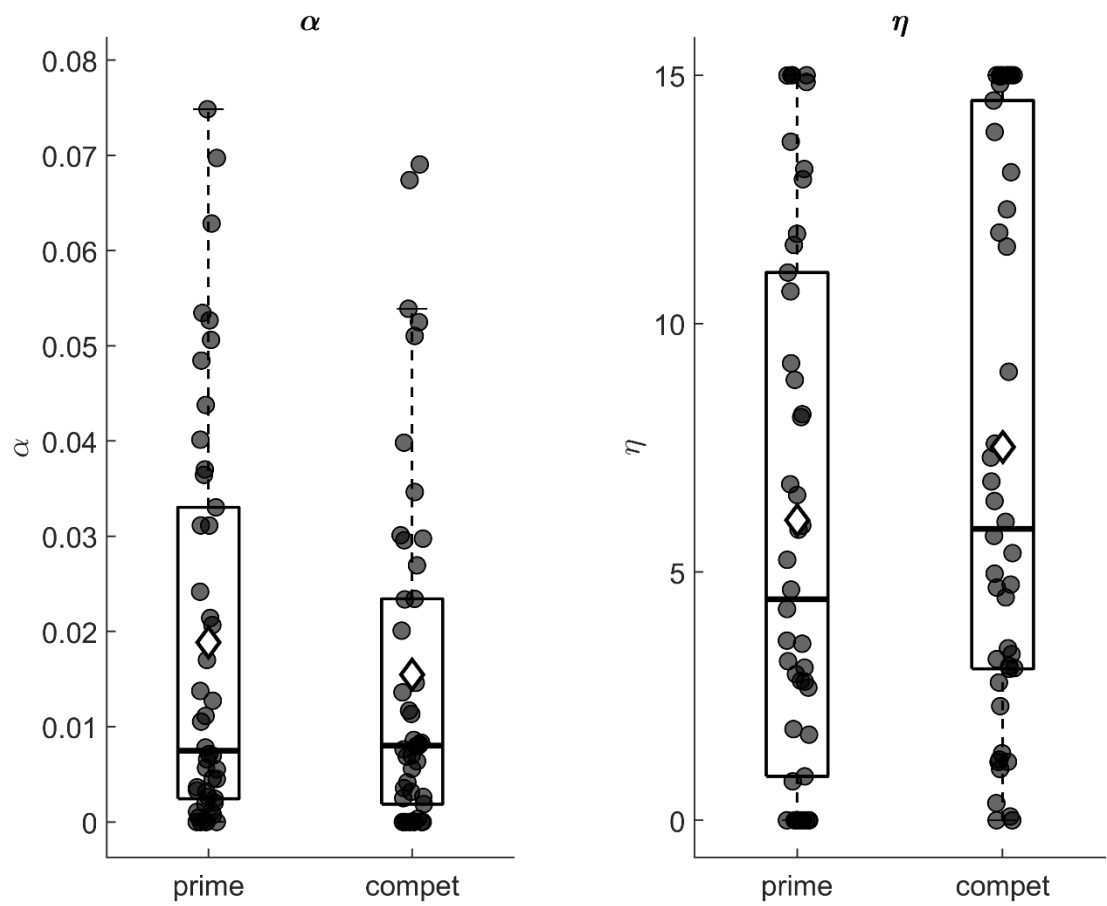


Figure 1: Recovered parameter estimates (α and η) of the winning model (TI model) , shown separately for the prime and compet conditions. Each distribution is visualized using boxplots with individual participant data points (jittered) and mean markers.

Parameter Recovery: α & η (prime vs. compet)

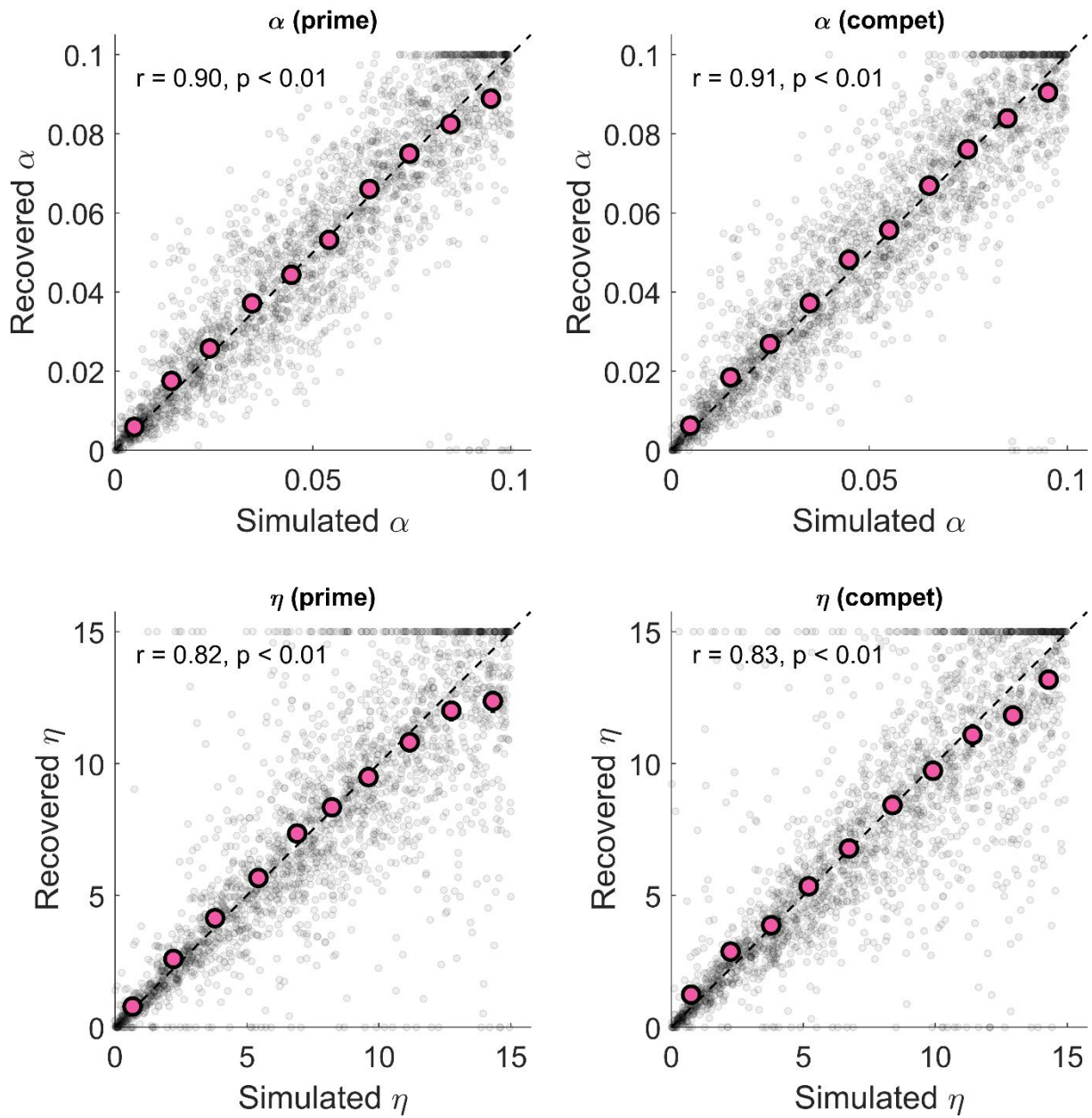


Figure 2: Parameter recovery for α and η across prime and competent conditions. Each panel shows simulated versus recovered parameter values for the winning TI model. Black points indicate individual samples; pink circles show binned mean estimates. Dashed lines represent the identity line. Reported are Pearson correlations (r) and corresponding p-values.