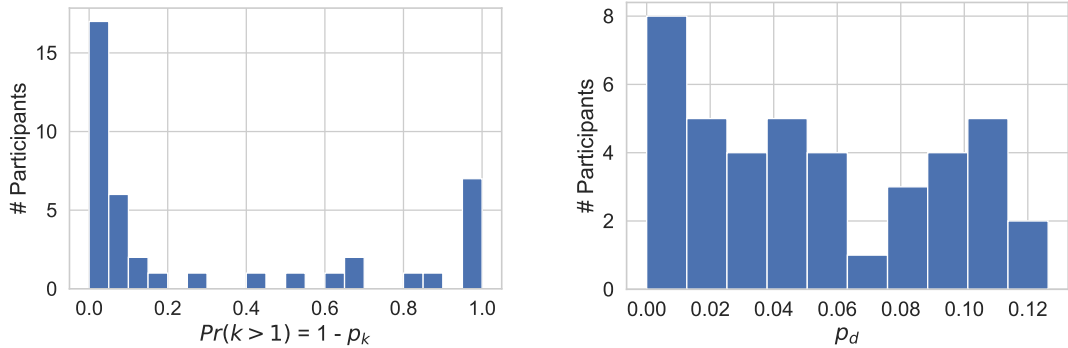


Compositional subgoal representations - Poster supplement

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(a) Distribution of fit parameters for multi-goal size. Can be interpreted as probability of each participant using a multigoal with more than one subgoal for a single action. This probability is simply one minus the parameter of the Geometric distribution.

(b) Distribution of fit parameters for depth limits. Smaller numbers indicate larger expected values for depth limits.

Figure 1: Individual differences in parameters in best fitting Geometric k/d model.

Model	# Params	AIC	BIC	LL	# Best fit	R^2	Trial Likelihood
Geometric k/d	3	10293	10315	-5143	6	0.709	63.69%
Poisson k/d	3	10301	10323	-5147	7	0.708	63.66%
Poisson k	2	11074	11088	-5535	2	0.686	61.72%
Geometric k	2	11090	11104	-5543	1	0.686	61.70%
Fixed k/d	3	11278	11300	-5636	0	0.681	61.17%
Fixed k	2	11545	11560	-5770	0	0.673	60.58%
Poisson d	2	12204	12218	-6100	9	0.655	57.88%
$k=1$	1	12402	12410	-6200	14	0.649	58.96%
Geometric d	2	12902	12917	-6449	2	0.635	55.98%
Fixed d	2	13188	13203	-6592	0	0.627	55.51%
Random	0	35312	35312	-17656	0	0.000	19.93%

Table 1: Model comparison. Columns are number of parameters per participant, Akaike information criterion, Bayesian information criterion, log likelihood, the number of participants best fit by the model, McFadden’s Pseudo- R^2 , and the mean per-trial likelihood.