$Basic_Analyses_modelEmma$

December 29, 2017

1 Basic Analyses:

contains: - no-brainer analysis - model parameter plots for Emma's model

GIT SHA: b'e4c1e6e03f13d71eafc9b25443636876b885d26d'

1.1 No-Brainer Scores

1.1.1 Gain/Loss Task

0+ [0] .		MTD	h f
Out[9]:	•	MID	nbperf
	0	vp06	0.941176
	1	vp07	0.970588
	2	vp10	1.000000
	3	vp11	0.970588
	4	vp12	0.941176
	5	vp13	0.911765
	6	vp15	0.941176
	7	vp16	0.970588
	8	vp17	0.970588
	9	vp18	0.941176
	10	vp19	0.647059
	11	vp20	0.970588
	12	vp22	0.882353
	13	vp23_2	0.970588
	14	vp25_2	1.000000
	15	vp26_2	0.970588
	16	vp27_2	1.000000
	17	vp28_2	0.852941
	18	vp29	0.558824
	19	vp30	0.794118
	20	vp31	0.823529
	21	vp32	0.911765
	22	vp33	0.970588
	23	vp34	0.911765
	24	vp35	1.000000
		1	

```
25 vp36 0.941176
26 vp37 0.970588
27 vp38 0.676471
28 vp39 0.970588
29 vp40 1.000000
```

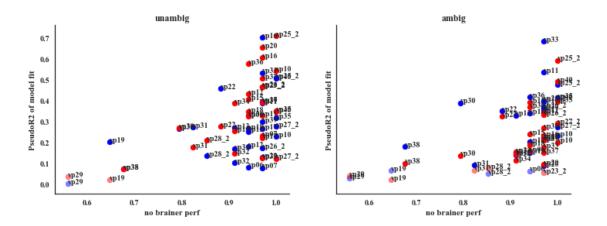
1.1.2 Shock Task

Out[12]:		MID	nbperf		
	0	vp06	0.882353		
	1	vp07	1.000000		
	2	vp10	1.000000		
	3	vp11	1.000000		
	4	vp12	0.941176		
	5	vp13	1.000000		
	6	vp15 0.9411			
	7	vp16	1.000000		
	8	vp17	1.000000		
	9	vp18	1.000000		
	10	vp19	1.000000		
	11	vp20	0.882353		
	12	vp22	0.823529		
	13	vp23	1.000000		
	14	vp25	1.000000		
	15	vp26	0.941176		
	16	vp27	1.000000		
	17	vp28	0.882353		
	18	vp29	0.941176		
	19	vp30	1.000000		
	20	vp31	1.000000		
	21	vp32	1.000000		
	22	vp33	1.000000		
	23	vp34	0.941176		
	24	vp35	0.941176		
	25	vp36	0.941176		
	26	vp37	1.000000		
	27	vp38	0.882353		
	28	vp39	0.882353		
	29	vp40	1.000000		

1.2 No-Brainer vs Model fit

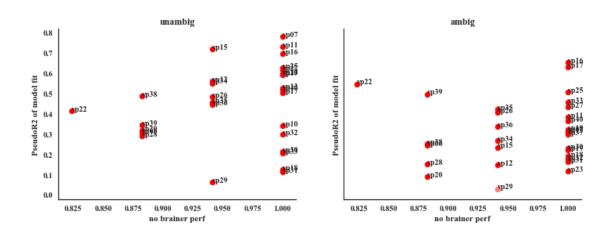
1.2.1 gainloss

/Users/chris/anaconda/lib/python3.6/site-packages/matplotlib/axes/_axes.py:545: UserWarning: New Warnings.warn("No labelled objects found."



1.2.2 shock

/Users/chris/anaconda/lib/python3.6/site-packages/matplotlib/axes/_axes.py:545: UserWarning: No warnings.warn("No labelled objects found."



1.3 Within-Subject Ranking

gls = gain > shock > loss etc.

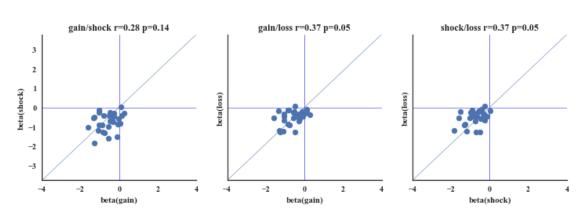
Capture within subject ranking preferences for ambiguity.

Out[35]:	order	gls	gsl	lgs	lsg	sgl	slg
	parameter						
	${\tt ambiguityLevel}$	9.0	5.0	4.0	6.0	1.0	2.0
	intercept	2.0	0.0	9.0	11.0	0.0	5.0
	mag_diff	9.0	5.0	2.0	5.0	4.0	2.0
	prob diff	5.0	6.0	3.0	1.0	10.0	2.0

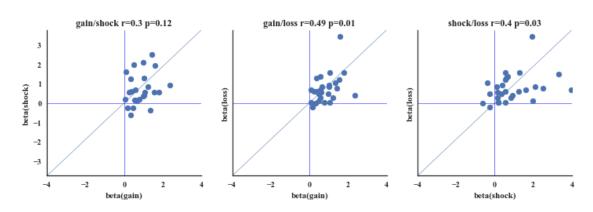
Highly significant chi-squared test for intercept.

1.4 Parameter Correlations Across Task

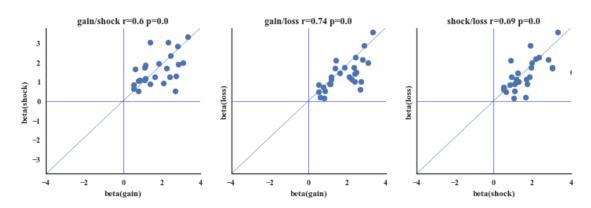
Ambiguity Level



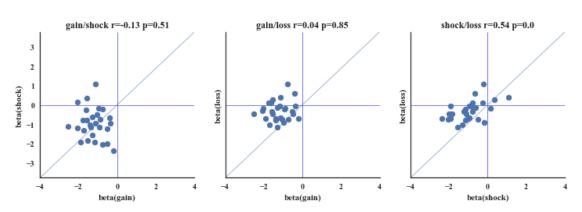
Magnitude Difference



Probability Difference



Ambiguity Presence/Intercept



1.5 Parameter Correlation Within Task

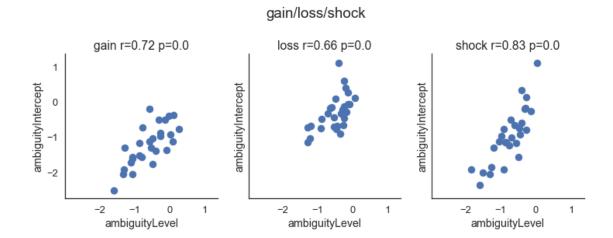
magdiff

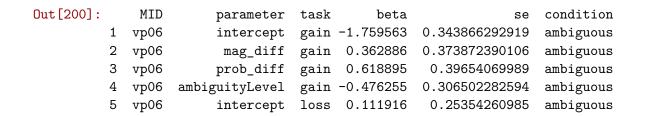
gain r=0.21 p=0.29 loss r=0.33 p=0.09 shock r=0.19 p=0.35 5 4 probdiff 3 probdiff probdiff 0 2 4 0 2 6 0 2 6 4 4 6

gain/loss/shock

magdiff

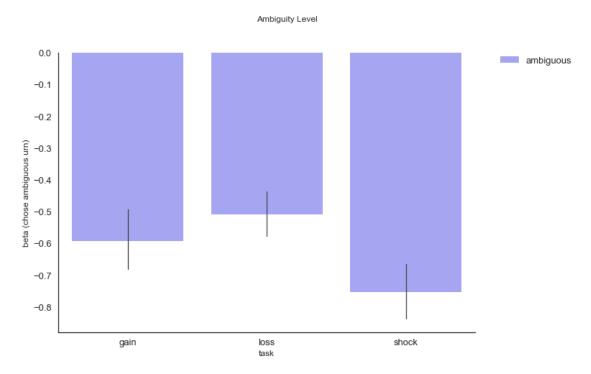
magdiff



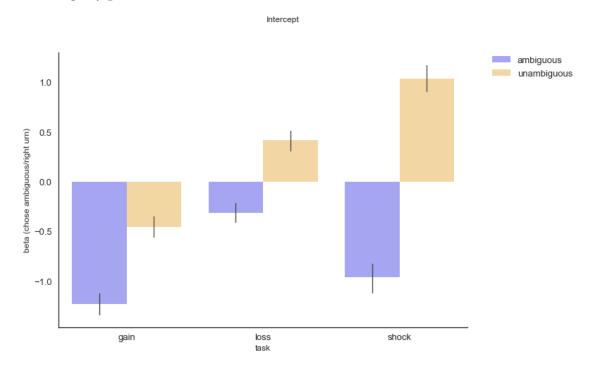


1.6 Parameter Bar Plots

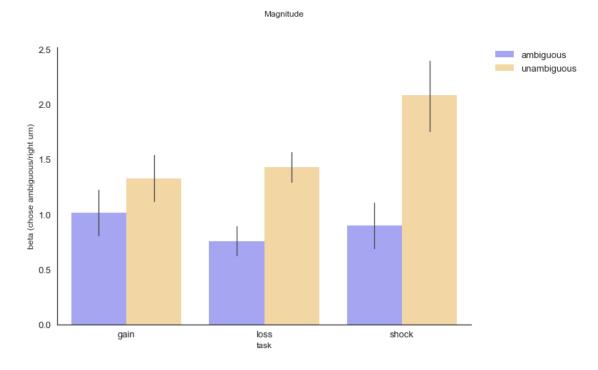
1.6.1 Ambiguity level



1.6.2 Ambiguity presence



1.6.3 Magnitude



1.6.4 Probability

