Surprise study pilot 21

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2124-04-08

Study description

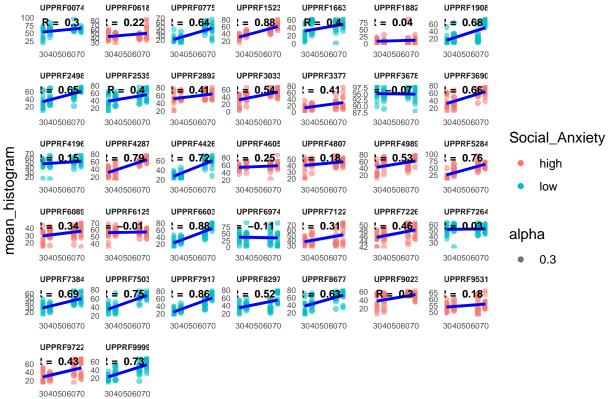
This study is the same as pilot 19, except we have now removed the second prediction after the feedback and replaced the image of the judges with real images of our relatives/friends.

The Gorilla experiment is the following: https://app.gorilla.sc/admin/project/130203 The task is the following: https://app.gorilla.sc/admin/task/799523/editor

##	# 1	A til	bble:	37	x 2
##		Rand	dom_Il	D	Trial.Number
##		<ch:< th=""><th>r></th><th></th><th><int></int></th></ch:<>	r>		<int></int>
##	1	SUPI	PRF00	748	48
##	2	SUPI	PRF06	189	48
##	3	SUPI	PRF07	750	48
##	4	SUPI	PRF15	230	48
##	5	SUPI	PRF16	639	48
##	6	SUPI	PRF188	327	48
##	7	SUPI	PRF19	080	48
##	8	SUPI	PRF249	989	48
##	9	SUPI	PRF25	358	48
##	10	SUPI	PRF289	922	48
##	# :	i 27	more	rot	as

Relationship between prediction and mean histograms (4x only in the beginning)

[1] "average correlation between mean_hist and prediction: 0.447181331279856"



prediction

Relationship between Anxiety and SubjPE

[1] "average correlation between anxiety and SubjPE: -0.150130292687144"

		JPPRF0074	UPPRF0618	JPPRF077!	JPPRF152	JPPRF1663	JPPRF1882	UPPRF1908	
	100 75 50 25 0	: €0.5 5	100 75 50 25 0	100 75 50 25 0	100 75 = -0.16 50 25 0	¹⁰⁰ / ₇₅ = -0.03 ⁵⁰ / ₂₅	100 75 50 25 0	¹⁰⁰ / ₇₅ = -0.03 ⁵⁰ / ₂₅	
	25 0		25	25 0	25	25 -	25 0	25 -	
		-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	
		JPPRF2498	UPPRF253	JPPRF2892	JPPRF3033	UPPRF3377	JPPRF3678	JPPRF3690	
	100 75 50 25 0	= 0.12	100 = -0.77 50 25	100 75 50 25 0	¹⁰⁰ / ₇₅ = -0.07 ⁵⁰ / ₂₅	100 75 50 25 0	¹⁰⁰ / ₇₅ = -0.01 ⁵⁰ / ₂₅	100 75 50 25	
	25 0		25	25	25	25 0	25	25	
		-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	0
		JPPRF4196	JPPRF4287	JPPRF4426	JPPRF460	UPPRF4807	JPPRF4989	JPPRF528₄	Social_Anxiety
	100 75 50 25	= -0.09	100 = -0.14 50 25	¹⁰⁰ / ₇₅ : -0.29 ⁵⁰ ²⁵ 0	100 75 50 25 0	100 75 50 25 0	¹⁰⁰ / ₇₅ = -0.01 ⁵⁰ / ₂₅	¹⁰⁰ / ₇₅ = -0.04 ⁵⁰ / ₂₅	high
≥		-		-	-	25	25 0		
Anxiety		-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	• low
2									
ʹ		JPPRF6089	UPPRF612	JPPRF660:	JPPRF6974	UPPRF7122	JPPRF7226	UPPRF726⁴	
¥	100 75 50	JPPRF6089 = -0.8							alnha
Ā	100 75 50 25 0	= -0.8	100 75 50 25 0	$^{100}_{75}_{75} = 0.09$	100 75 50 25 0	100 75 50 25 0	100 75 50 25 0	100 75 50 25 0	alpha
Ā									alpha • 0.3
Ā		= -0.8	100 75 50 25 0 -80-3020 70 UPPRF750:	100 75 50 25 -80-3020 70 JPPRF791;	100 75 50 -80-3020 70 JPPRF829i	100 75 50 225 0 -80-3020 70 UPPRF8677	100 75 50 25 0 -80-3020 70 JPPRF902 :	100 75 50 25 0 -80-3020 70 UPPRF9531	•
Ā		= -0.8 -80-3020 70	100 75 50 25 0 -80-3020 70 UPPRF750:	100 75 50 25 -80-3020 70 JPPRF791;	100 75 50 -80-3020 70 JPPRF829i	100 75 50 225 0 -80-3020 70 UPPRF8677	100 75 50 25 0 -80-3020 70 JPPRF902 :	100 75 50 25 0 -80-3020 70 UPPRF9531	•
Ā	100 75 50 25 0	= 0.8 -80-3020 70 UPPRF7384 = -0.26	100 25 -80-3020 70 UPPRF750: 100 75 25 0	100 75 25 -80-3020 70 JPPRF791: 100 75 25 0	100 25 -80-3020 70 UPPRF8297 100 25 0 25 0 100 100 100 100 100 100 100 100 100	100 750 25 0 -80-3020 70 UPPRF867; 100 750 250 250 0 -80-3020 70	100 25 -80-3020 70 UPPRF902: 100 75 50 25 0	100 755 25 0 -80-3020 70 UPPRF9531 100 755 250 250	•
Ā	100 75 50 25 0	= -0.8 -80-3020 70 UPPRF7384	100 75 50 25 0 -80-3020 70 UPPRF750:	100 75 50 25 -80-3020 70 JPPRF791;	100 75 50 -80-3020 70 JPPRF829i	100 75 50 225 0 -80-3020 70 UPPRF8677	100 75 50 25 0 -80-3020 70 JPPRF902 :	100 75 50 25 0 -80-3020 70 UPPRF9531	•
Ar	100 75 50 25 0	= 0.8 -80-3020 70 UPPRF7384 = -0.26	100 75 25 -80-3020 70 UPPRF750: 100 50 -80-3020 70 UPPRF99999999999999999999999999999999999	100 75 25 -80-3020 70 JPPRF791: 100 75 25 0	100 25 -80-3020 70 UPPRF8297 100 25 0 25 0 100 100 100 100 100 100 100 100 100	100 750 25 0 -80-3020 70 UPPRF867; 100 750 250 250 0 -80-3020 70	100 25 -80-3020 70 UPPRF902: 100 75 50 25 0	100 755 25 0 -80-3020 70 UPPRF9531 100 755 250 250	•
Ar	100 75 50 25 0	= 0.8 -80-3020 70 UPPRF7384 = -0.26 -80-3020 70	100 75 25 -80-3020 70 UPPRF750: 100 50 -80-3020 70 UPPRF99999999999999999999999999999999999	100 75 25 -80-3020 70 JPPRF791: 100 75 25 0	100 25 -80-3020 70 UPPRF8297 100 25 0 25 0 100 100 100 100 100 100 100 100 100	100 750 25 0 -80-3020 70 UPPRF867; 100 750 250 250 0 -80-3020 70	100 25 -80-3020 70 UPPRF902: 100 75 50 25 0	100 755 25 0 -80-3020 70 UPPRF9531 100 755 250 250	•
Ar	100 75 50 25 0 100 750 25 0	= 0.8 -80-3020 70 UPPRF7384 = -0.26 -80-3020 70 UPPRF9724	100 -80-3020 70 UPPRF750: 100 25 0 -80-3020 70 UPPRF999:	100 75 25 -80-3020 70 JPPRF791: 100 75 25 0	100 25 -80-3020 70 UPPRF8297 100 25 0 25 0 100 100 100 100 100 100 100 100 100	100 750 25 0 -80-3020 70 UPPRF867; 100 750 250 250 0 -80-3020 70	100 25 -80-3020 70 UPPRF902: 100 75 50 25 0	100 755 25 0 -80-3020 70 UPPRF9531 100 755 250 250	•

SubjPE: feedback - prediction

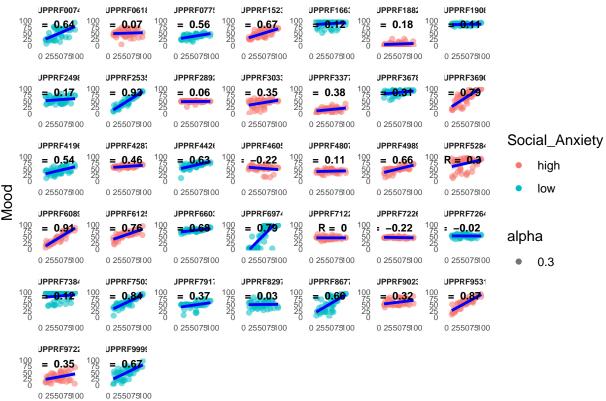
Relationship between Mood and SubjPE

[1] "average correlation between mood and SubjPE: 0.295886768532358"

	100	JPPRF0074		JPPRF0618		JPPRF077!	100	JPPRF1523		JPPRF166		JPPRF1882	100	UPPRF1908		
	100 75 50 25 0	= 0.44	100 75 50 25 0	= -0.04	100 75 50 25 0	= 0.26	100 75 50 25 0	= 0.71	100 75 50 25 0	= 0.12	100 75 50 25 0	= -0.19	100 75 50 25 0	= 0.14		
		-80-3020 70		80-3020 70		-80-3020 70		-80-3020 70		-80-3020 70		80-3020 70		-80-3020 70		
		JPPRF2498		JPPRF253		JPPRF2892		JPPRF3033		JPPRF3377		JPPRF3678		JPPRF3690		
	100 75 50 25	= 0.21	100 75 50 25 0	= 0.79	100 75 50 25 0	: - 0.13	100 75 50 25	= -0.03	100 75 50 25 0	= 0.26	100 75 50 25 0	=-0 .31	100 75 50 25	= 0.69		
		-80-3020 70	-	80-3020 70		-80-3020 70	-	-80-3020 70		-80-3020 70		80-3020 70	-	-80-3020 70		
		JPPRF4196		JPPRF4287		JPPRF4426		JPPRF460		UPPRF4807		JPPRF4989		JPPRF5284	Soc	ial_Anxiety
	100 75 50 25	= 0.41	100 75 50 25 0	= 0.28	100 75 50 25	= 0.54	100 75 50 25	= -0.22	100 75 50 25	= 0.11	100 75 50 25	= 0.42	100 75 50 25	= 0.16	•	high
Mood	-	-80-3020 70		80-3020 70		-80-3020 70	-	-80-3020 70	-	-80-3020 70	-	80-3020 70	-	-80-3020 70	•	low
≥		JPPRF6089		UPPRF612		JPPRF660:		JPPRF6974		JPPRF7122		JPPRF7226		JPPRF7264		
	100 75 50 25 0	= 0.85	100 75	= 0.71	100 75	= 0.36	100 75 50 25	R = 0.6	100 75	= -0.03	100 75	-0.26	100 75 50 25	= <u>-0.1</u> 7	alpł	na
			50 25	85	50 25		25		25		50 25		25		uipi	
		-80-3020 70	100 75 50 25 0	80-3020 70	100 75 50 25 0	-80-3020 70	0	-80-3020 70	100 75 50 25 0	-80-3020 70	100 75 50 25 0	80-3020 70	0	-80-3020 70	•	0.3
		-80-3020 70 UPPRF7384	-	80-3020 70 UPPRF750:	-	JPPRF7917		-80-3020 70 JPPRF8297	-	-80-3020 70 UPPRF8677	-	80-3020 70 JPPRF902:	0	UPPRF9531	•	
			-		-	JPPRF7917			-		-		0	UPPRF9531	•	
	100 75 50 25 0	JPPRF7384	100 75 50 25 0	UPPRF750:	100 75 50 25 0	JPPRF7917	100 75 50 25 0	JPPRF8297	100 75 50 25 0	UPPRF8677	100 75 50 25 0	JPPRF902	100 75 50 25 0	UPPRF9531	•	
	100 75 50 25 0	JPPRF738 ² = 10.21	100 75 50 25 0	UPPRF750: = 0.57	100 75 50 25 0	JPPRF7917 = 0.57	100 75 50 25 0	JPPRF8297 R = 0.1	100 75 50 25 0	UPPRF8677	100 75 50 25 0	UPPRF902: = 0.43	100 75 50 25 0	UPPRF9531 = 0.85	•	
	100 75 50 25 0	UPPRF7384 = 0.21 -80-3020 70	100 75 50 25 0	UPPRF750: = 0.57 80-3020 70	100 75 50 25 0	JPPRF7917 = 0.57	100 75 50 25 0	JPPRF8297 R = 0.1	100 75 50 25 0	UPPRF8677	100 75 50 25 0	UPPRF902: = 0.43	100 75 50 25 0	UPPRF9531 = 0.85	•	

SubjPE: feedback - prediction

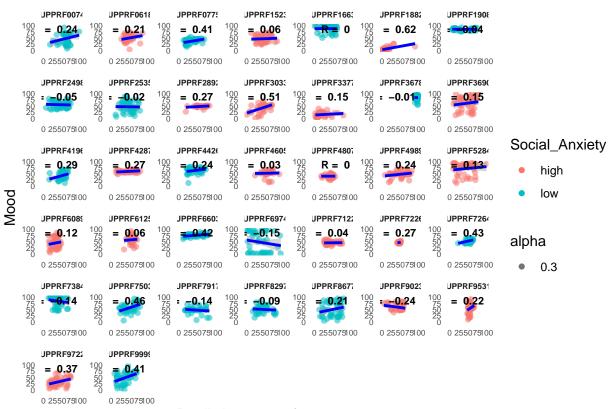
[1] "average correlation between mood and feedback: 0.404392699387806"



Feedback

Relationship between Mood and prediction (pre-performance)

[1] "average correlation between mood and prediction before performance: 0.160826545115285"



Prediction pre performance

Relationship between Anxiety and prediction

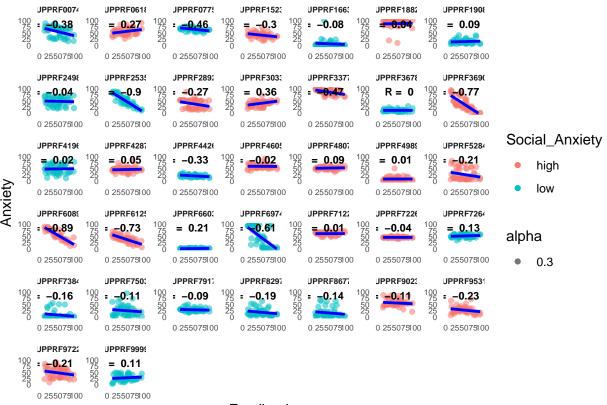
[1] "average correlation between anxiety and prediction: 0.00956820148768122"

	100	JPPRF0074 = 0.350 100 75	UPPRF0618	JPPRF077! = -0.24 100 75	JPPRF152: = _0.21	UPPRF166: = = 0.06 100 75	JPPRF1882	UPPRF1908	
	100 75 50 25 0	= 0.35 100 75 50 25 0	R = 0.4 100 75 50 25 0	= -0.24 100 75 50 25 0	= -0.21 100 75 50 25 0	= -0.06 100 75 50 25 0	9.37 100 75 50 25 0	= 0.11	
		0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	
	100	JPPRF2498	UPPRF253!	JPPRF2892	JPPRF303:	UPPRF3377	JPPRF3678	UPPRF3690	
	100 75 50 25 0	=-0.19 100 75 50 25 0	0.03 100 75 50 25 0	= -0.73 100 75 50 25 0	= 0.57 100 50 25 0	-0.25 100 75 50 25 0	= 0.05 100 50 50 25 0	= -0.14	
		0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	Ossisl Assista
		JPPRF4196	UPPRF4287	JPPRF4426	JPPRF460!	UPPRF4807	JPPRF4989	JPPRF5284	Social_Anxiety
	100 75 50 25	= 0.23 100 75 50 25 0	= 0.21 100 75 50 25 0	: −0.12 100 −0.12 75 50 25 0	= 0.14 100 75 50 25 0	= 0.43 100 75 50 25	= 0.02 100 75 50 25 0	= -0.16	high
Anxiety	0	0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	0 255075100	• low
×									
\subseteq		JPPRF6089	UPPRF612!	JPPRF660:	JPPRF6974	UPPRF7122	JPPRF7226	JPPRF7264	
An	100 75 50 25							= 0.49	alpha
An	100 75 50 25 0	400	100	100	400	100	400	= 0.49	alpha • 0.3
An		= -0.19 100 75 50 25 0 0 255075100 UPPRF7384	-0.13 100 75 50 25 0 0 255075100 UPPRF750:	= 0.15 100 75 50 0 255075100	-0.08 100 75 50 0 255075100	R=0 100 75 50 25 0 0 255075100 UPPRF8677	= 0.16 100 75 50 25 0 0 255075100 UPPRF902:	= 0.49	
An		= -0.19 100 75 50 25 0 0 255075100 UPPRF7384	-0.13 100 75 50 25 0 0 255075100 UPPRF750:	= 0.15 100 75 50 0 255075100	-0.08 100 75 50 0 255075100	R=0 100 75 50 25 0 0 255075100 UPPRF8677	= 0.16 100 75 50 25 0 0 255075100 UPPRF902:	= 0.49 0 255075100	
An	100 75 50 25 0 100 75 50 25 0	- 0.19 100 75 50 0 255075100	= -0.13	= 0.15 \begin{pmatrix} 100 \\ 75 \\ 50 \\ 0 \\ 255075100 \end{pmatrix} JPPRF791;	0 255075100 100 UPPRF8297	0 255075100 100 0 255075100 UPPRF867;	= 0.16 100 75 50 25 0 0 255075100 UPPRF902:	= 0.49 0 255075100 UPPRF9531	
An	100 75 50 25 0	E -0.19 100 55 50 255075100 25 0 255075100 75 50 0 255075100 25	= -0.13	= 0.15	### 100	R=0 100 750 750 750 750 750 750 750 750 750 7	= 0.16	= 0.49 0 255075100 UPPRF9531 = 0.52	
An		E	= -0.13	= 0.15	### 100	R=0 100 750 750 750 750 750 750 750 750 750 7	= 0.16	= 0.49 0 255075100 UPPRF9531 = 0.52	

Pre performance prediction

Relationship between Anxiety and feedback

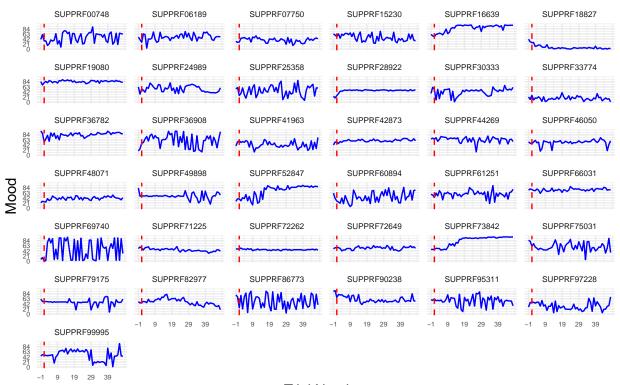
[1] "average correlation between anxiety and feedback: -0.171554541219316"



Feedback

Mood over time

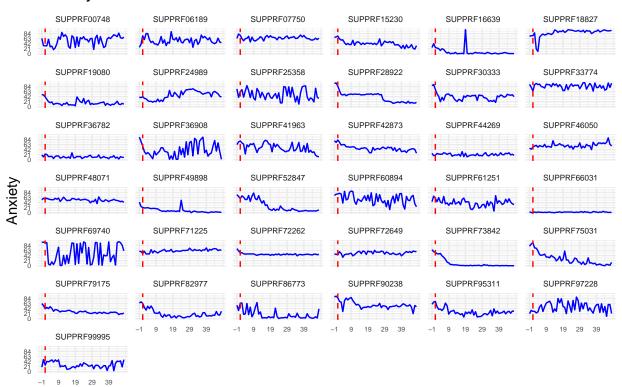
Mood across time



Trial Number

Anxiety over time

Anxiety across time

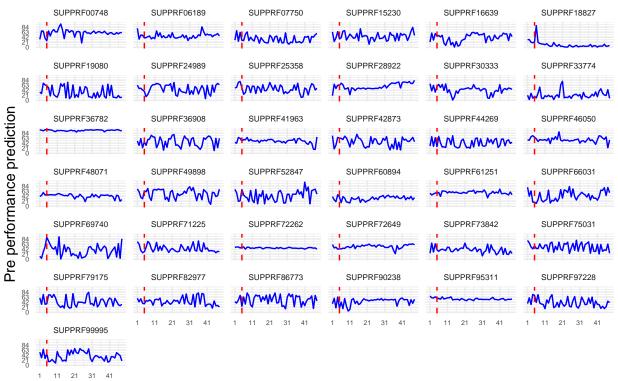


Trial Number

Prediction before performance over time

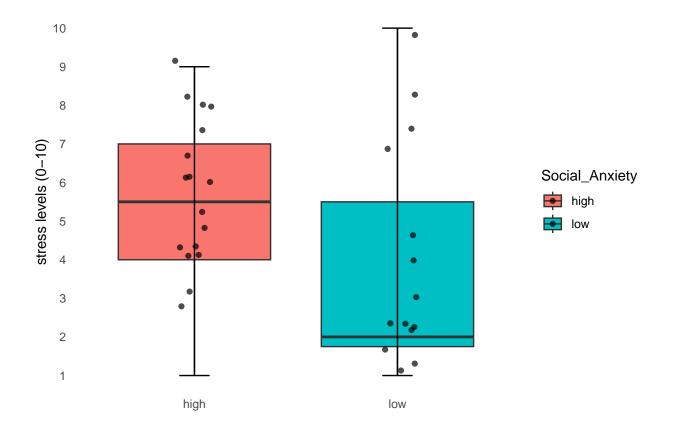
Red line presents until what points histograms were presented (4 first trials only).

Prediction before performance across time



Trial Number

Stress levels and social anxiety



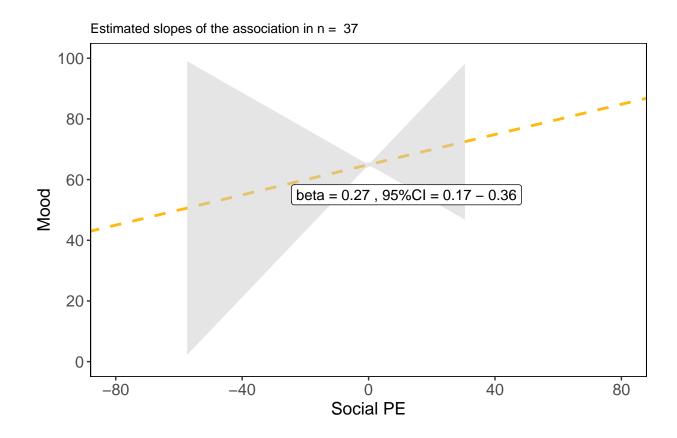
LME models for Mood and SubjPE

The best model seems to be: Mood $\sim \text{SubjPE} + \text{mini_SPIN_total} + (\text{SubjPE} \mid \text{Random_ID})$

[1] 14596.58

[1] 14807.62

[1] 14590.43



LME models for Anxiety and SubjPE

The best model seems to be: $Anxiety \sim SubjPE + mini_SPIN_total + (SubjPE | Random_ID)$

[1] 14794.93

[1] 14913.84

[1] 14784.54

