Surprise study pilot 19

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2024-03-11

Study description

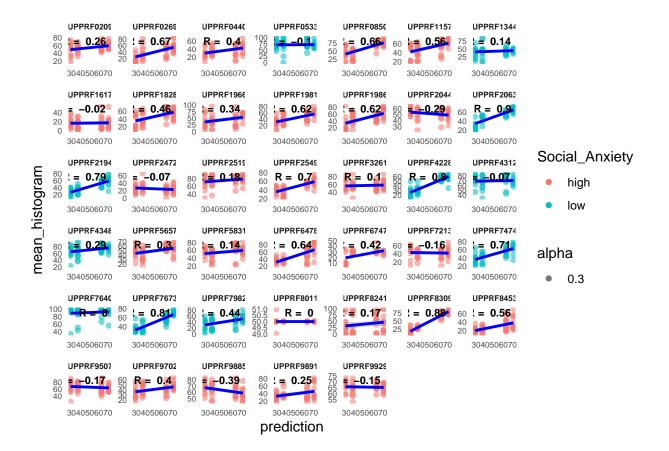
This study is the same as pilot 16, (pilots 17 and 18 had the chocking element), we only show 4 judges, show histograms only early on, and ask them how they think they will perform/did perform/ how the judge thought they performed. We have also removed the certainty rating from this version.

The Gorilla experiment is the following: https://app.gorilla.sc/admin/project/128379 The task is the following: https://app.gorilla.sc/admin/task/788287/editor

##	# 1	A tibble: 40	x 2
##		$Random_ID$	Trial.Number
##		<chr></chr>	<int></int>
##	1	SUPPRF02095	48
##	2	SUPPRF02691	48
##	3	SUPPRF04400	48
##	4	SUPPRF05331	48
##	5	SUPPRF08502	48
##	6	SUPPRF11577	48
##	7	SUPPRF13444	48
##	8	SUPPRF16178	48
##	9	SUPPRF18284	48
##	10	SUPPRF19668	48
##	# 1	i 30 more ro	is.

Relationship between prediction and mean histogram

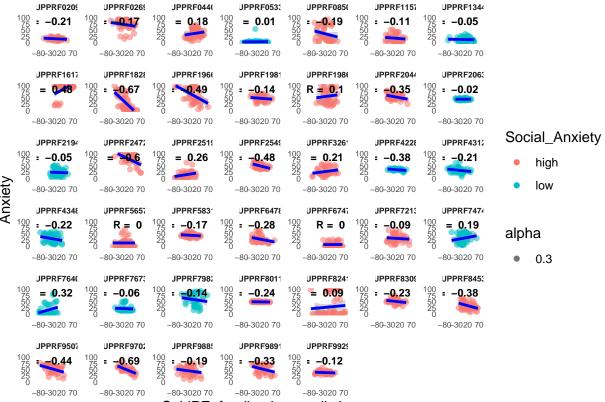
[1] "average correlation between mean_hist and prediction: 0.319931097057782"



Relationship between Anxiety and SubjPE

SubjPE = feedback - prediction (before performance)

[1] "average correlation between anxiety and SubjPE: -0.145854971406007"

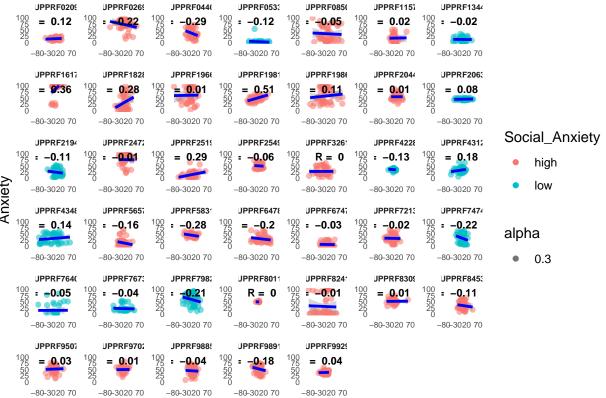


SubiPE: feedback - prediction

Relationship between Anxiety and SubjPE_2

Here SubjPE_2 was calculated by looking at the difference between the ratings on questions before and after the performance: "how well you performed?" minus "how well do you think you will performe?".

[1] "average correlation between anxiety and SubjPE_2: -0.00818375331983552"

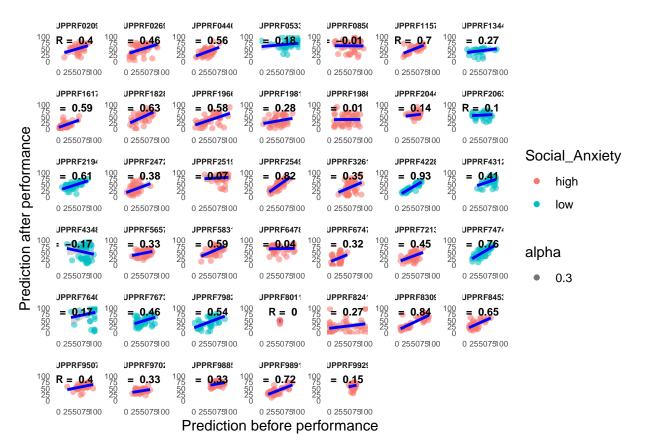


SubjPE: prediction2 - prediction1

Relationship between predictions before and after performance

We will see in the following pages that the relationship between SubjPE and SubjPE3 with mood and anxiety is very similar. If the predictions before and after performance would be very similar (highly correlated), it would make sense as SubjPE is calcylated as [feedback - prediction_before_performance] and SubjPE_3 is calcylated as [feedback - prediction after performance].

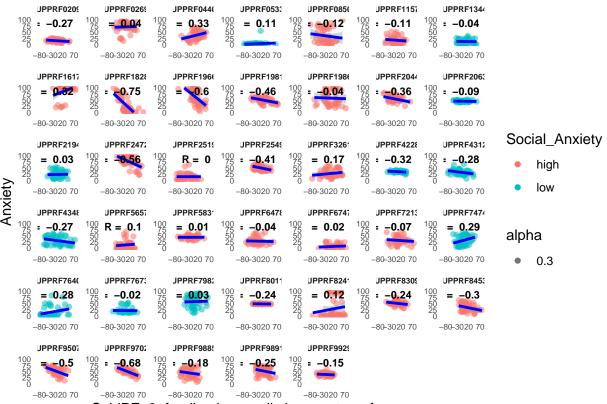
[1] "average correlation between predictions before and after performance: 0.390275532489822"



Relationship between Anxiety and SubjPE_3

 $SubjPE_3 = feedback - prediction after performance$

[1] "average correlation between anxiety and SubjPE_3: -0.138035839002155"



SubjPE_3: feedback – prediction_post_performance

Relationship between Mood and SubjPE

[1] "average correlation between mood and SubjPE: 0.219500014709654"

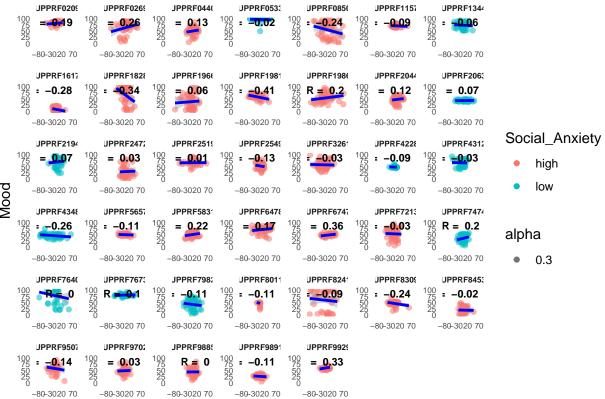
		JPPRF0209		PRF0269	JPPRF		JPPRF0533	JPPRF0850	JPPRF1157	JPPRF1344	
	100 75 50 25 0	R=0,2	100 75 50 25 0	0.38	100 75 50 25 0	3 100 75 50 25 0	= 0.16	100 75 50 25 0	100 75 50 25 0	100 75 50 25 0	
		-80-3020 70		3020 70	-80-3020		-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	
		JPPRF1617	JPI	PRF1828	JPPRF1	966	JPPRF1981	UPPRF1986	JPPRF2044	UPPRF2063	
	100 75 50 25	= -0.33	100 75 50 25 0	0.62	100 75 = 0.5 50 25	3 100 75 50 25	=_0.04	100 75 50 25	100 75 50 25 0	100 75 50 25 0	
	-	-80-3020 70	-	3020 70	-80-3020	-	-80-3020 70	25 0 -80-3020 70	25 0 -80-3020 70	25 0 -80-3020 70	
											Social_Anxiety
	100	JPPRF2194		PRF2472	JPPRF2		JPPRF2549	JPPRF3261	JPPRF4228	UPPRF4312	
	100 75 50 25	= 0.33	100 75 50 25	0.51	100 75 50 25 0	1 100 50 25	= 0.84	100 75 50 25 0	¹⁰⁰ ₇₅ ₅₀ ₂₅ ₀ R = 0.4	100 75 50 25	high
Q	-	-80-3020 70	0	3020 70	-80-3020	-	-80-3020 70	-80-3020 70	-80-3020 70	-80-3020 70	low
Mood											
$\overline{}$											
2	400	JPPRF4348		PRF5657	JPPRF5		JPPRF6478	UPPRF6747	JPPRF7213	UPPRF7474	
2	100 75 50 25	JPPRF4348 = 0.18									alpha
2	100 75 50 25 0		100 75 50 25 0		100	2 100 75 50 25 0		100	100	100	
2		= 0.18 -80-3020 70	100 75 50 25 0	0.37 3020 70	100 75 50 25 0 -80-3020	2 100 75 50 25 0	= 0.26 -80-3020 70	100 75 50 25 -80-3020 70	100 75 50 25 -80-3020 70	100 75 = 0.15 50 25 -80-3020 70	alpha • 0.3
2		= 0.18 -80-3020 70 UPPRF7640	100 75 50 25 0 -80-	0.37 3020 70 PRF767;	100 75 50 25 0 -80-3020	100 75 50 25 0 70	= 0.26 -80-3020 70 JPPRF801 1	100 75 50 25 0 -80-3020 70	100 75 50 25 0 -80-3020 70 JPPRF8308	100 75 50 25 -80-3020 70 UPPRF845:	
2		= 0.18 -80-3020 70 UPPRF7640	100 75 50 25 0 -80-	0.37 3020 70 PRF767;	100 75 50 25 0 -80-3020	100 75 50 25 0 70	= 0.26 -80-3020 70 JPPRF801 1	100 75 50 25 0 -80-3020 70	100 75 50 25 0 -80-3020 70 JPPRF8308	100 75 50 25 -80-3020 70 UPPRF845:	
2	100 75 50 25 0	= 0.18 -80-3020 70 JPPRF764(=-0.13	100 75 50 25 0 -80-	0.37 3020 70 PRF767;	1000 = 0.6 500 = 0.6 250	100 75 50 25 0 70 70 98: 2 100 25 0 25 0 25 0 25 0 25 0 25 0 0 25 0 0 25 0 0 25 0 0 25 0 0 0 25 0 0 0 0	= 0.26 -80-3020 70 UPPRF8011 = 0.12	100 75 = -0.04 -80-3020 70 UPPRF824'	100 25 -80-3020 70 UPPRF8308 100 75 50 25 0	1000 750 = 0.15 500 -80-3020 70 UPPRF845 :	
2	100 75 50 25 0	= 0.18 -80-3020 70 UPPRF7640	100 755 500 -80- UPI 100 755 500 255	0.37 3020 70 PRF767;	100 75 50 25 0 -80-3020	100 75 50 25 0 70 70 98: 2 100 25 0 25 0 25 0 25 0 25 0 25 0 0 25 0 0 25 0 0 25 0 0 25 0 0 0 25 0 0 0 0	= 0.26 -80-3020 70 JPPRF801 1	100 75 50 25 0 -80-3020 70	100 75 50 25 0 -80-3020 70 JPPRF8308	100 75 50 25 -80-3020 70 UPPRF845:	
2	100 75 50 25 0	= 0.18 -80-3020 70 JPPRF764(=-0.13	100 75 50 25 0 -80- UPI 100 75 50 25 0 -80-	0.37 3020 70 PRF767:	1000 = 0.6 500 = 0.6 250	100 75 50 25 0 70 78 2 100 75 50 25 0 75 0	= 0.26 -80-3020 70 UPPRF8011 = 0.12	100 25 0 -80-3020 70 UPPRF8241 100 25 -80-3020 70 UPPRF9928	100 25 -80-3020 70 UPPRF8308 100 75 50 25 0	100 75 25 0 -80-3020 70 UPPRF845: 100 75 25 0 = -0.43	
2	100 75 50 25 0	= 0.18 -80-3020 70 UPPRF764(-0.13 -80-3020 70	100 755 50 -80- 100 -80 -80 -80 -80 -80 -80 -80 -80 -80 -	0.37 3020 70 PRF767: 0.28 3020 70 PRF970:	100 -80-3020 -80-3020 -80-3020	2 100 75 50 25 0 70 98; 100 75 50 25 0 70 988!	= 0.26 -80-3020 70 JPPRF8011 = 0.12 -80-3020 70 JPPRF9891	100 25 0 -80-3020 70 UPPRF8241 100 75 50 -80-3020 70	100 25 -80-3020 70 UPPRF8308 100 75 50 25 0	100 75 25 0 -80-3020 70 UPPRF845: 100 75 25 0 = -0.43	

SubjPE: feedback - prediction

Relationship between Mood and SubjPE_2

Again, here SubjPE_2 = prediction 2 - prediction 1 (question about how they think they performed - will perform).

[1] "average correlation between mood and SubjPE_2: -0.00972840674322963"

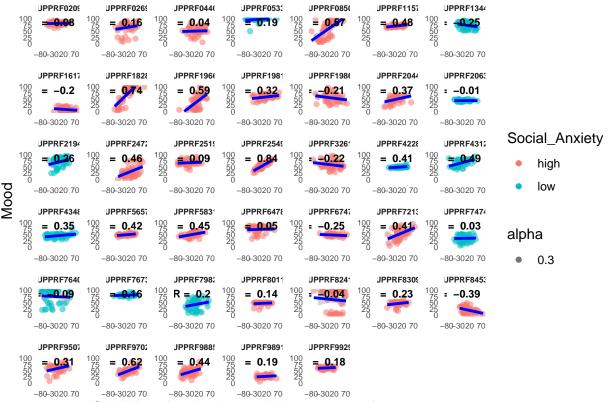


SubjPE: feedback - prediction

Relationship between Mood and SubjPE_3

SubjPE_3 = feedback - prediction 2 (question about how they think they performed).

[1] "average correlation between mood and SubjPE_3: 0.215138983251831"



SubjPE_3: feedback - prediction_post_performance

Relationship between SubjPE and SubjPE_3

[1] "average correlation between mood and SubjPE_3: 0.741927586942462"

Ф	JPPRF020\$	100 75 50 25 0	UPPRF053: 00		UPPRF1157 UPPRF134/ 100 = 0.86 175 = 0.79 50 25 50 25	
performance	-80-3020 70 -80-3020 7 JPPRF1617 UPPRF18: 100 = 0.89 170 R = 0.8 250 250 R = 0.8	JPPRF1966 100 75 = 0.69 25 0	JPPRF1981 100 R = 0.7 100 75 50 25 0		-80-3020 70 -80-3020 70 UPPRF2044 UPPRF206: 100 = 0.86 100 = 0.59 20 20 20 20 20 20 20 20 20 20 20 20 20 2	
prediction pre	UPPRF2194	JPPRF251! 100 75 = 0.66 25 0	JPPRF254! 100 = 0.87	-80-3020 70 UPPRF3261 R = 0.7 -80-3020 70	-80-3020 70 -80-3020 70 UPPRF422£ UPPRF431: 100 = 0.95	Social_Anxiety high low
- 1	75 = 0.43 75 K = 0.6	100 75 50 25 0	JPPRF6478 1000 = 0.46	UPPRF6747 R = 0.8 -80-3020 70	UPPRF721: UPPRF7474 100	alpha • 0.3
SubjPE: feedback	JPPRF764	100 75 50 25 0	JPPRF8011 100 = 0.99	UPPRF8241 = 0.47 -80-3020 70	UPPRF830\$ UPPRF845\$ 1007 = 0.74	
Suk	JPPRF9507 UPPRF970 100	100 75 50 25 0	JPPRF9891 1000 = 0.86 100 50 50 50 50 50 50 50 50 50 50 50 50 5	UPPRF9929 R = 0.9 -80-3020 70		

SubjPE_3: feedback - prediction_post_performance

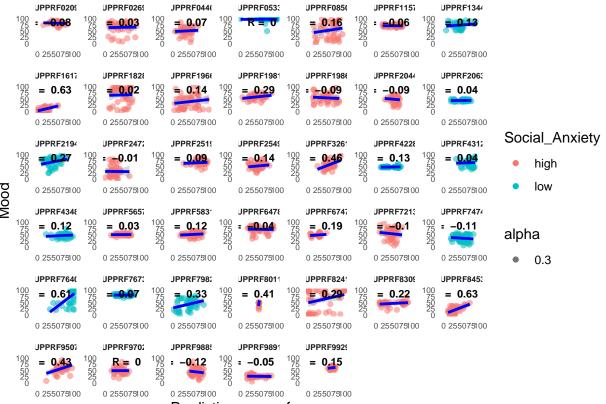
Relationship between Mood and feedback

[1] "average correlation between mood and feedback: 0.330933976383832"



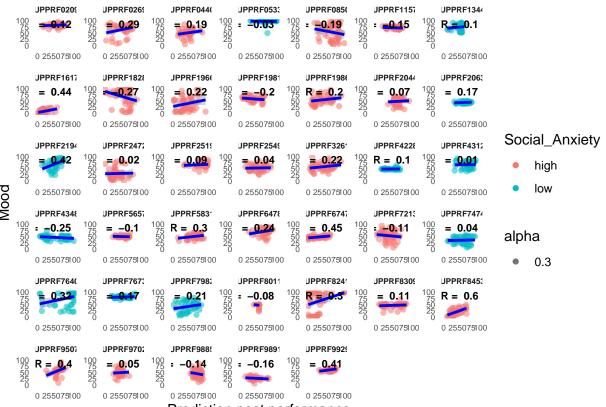
Relationship between Mood and prediction (pre-performance)

[1] "average correlation between mood and prediction before performance: 0.137300685536317"



Relationship between Mood and prediction (post-performance)

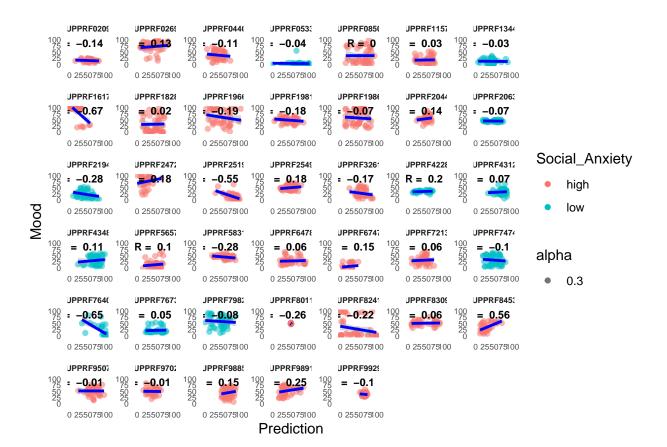
[1] "average correlation between mood and prediction after performance: 0.115583492276789"



Prediction post performance

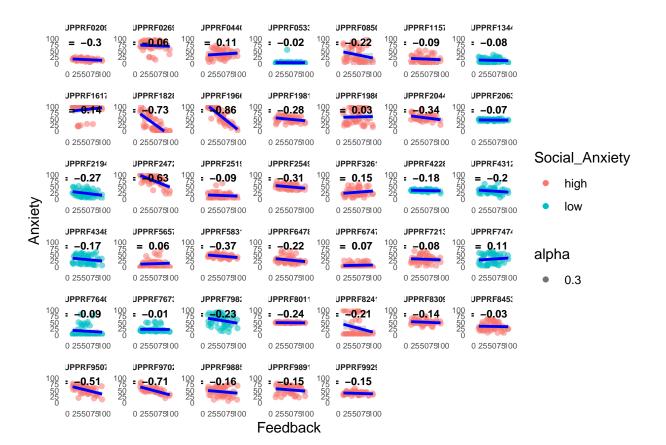
Relationship between Anxiety and prediction

[1] "average correlation between anxiety and prediction: -0.042753703303497"



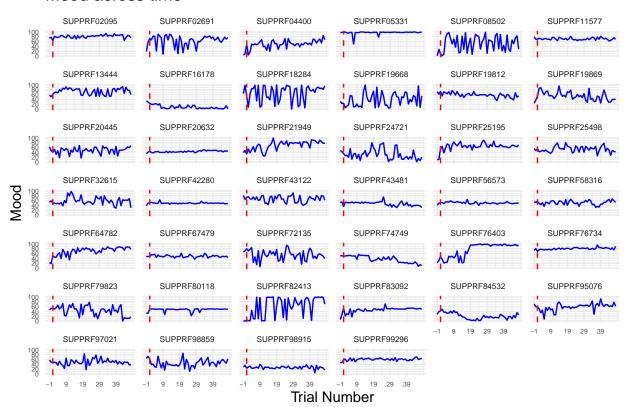
Relationship between Anxiety and feedback

[1] "average correlation between anxiety and feedback: -0.187801150659391"



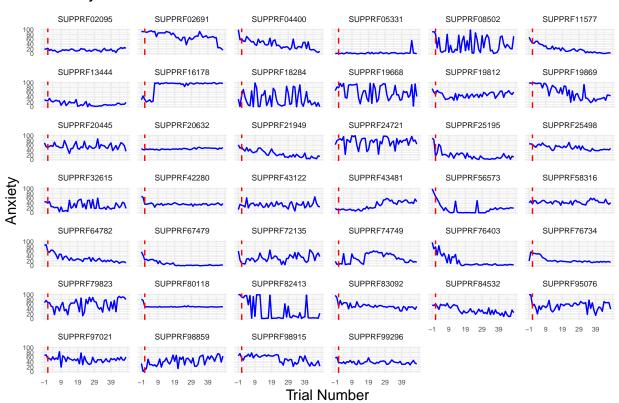
Mood over time

Mood across time



Anxiety over time

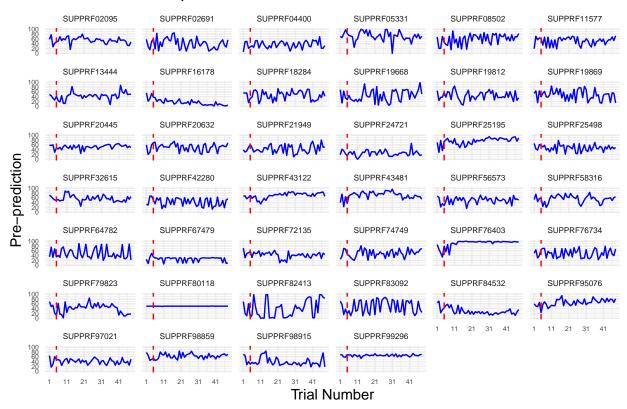
Anxiety across time



Prediction before judgement over time

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

Prediction before performance across time



Stress level based on believability and social anxiety

