Surprise study analysis

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Study description

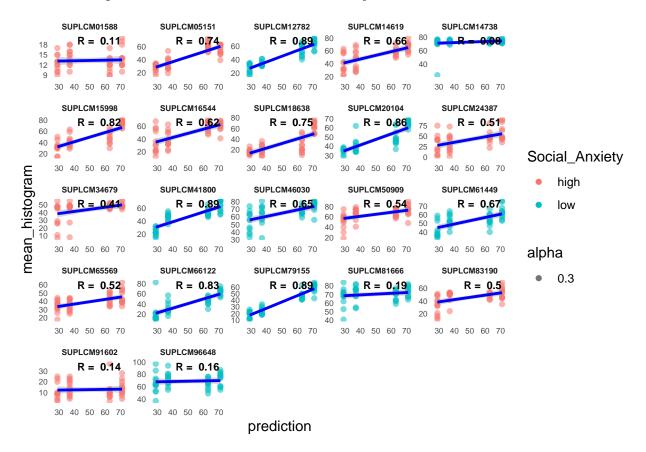
This is the first surprise study using the same task version as pilot 21. We had the following groups of participants with the experiment's corresponding Gorilla link: - Prolific aged 18-25 (n = 30): https://app.gorilla.sc/admin/experiment/180921/design - Prolific aged 26-45 (n = 38): https://app.gorilla.sc/admin/experiment/185160/design - School students aged 14-18 (n = 30): https://app.gorilla.sc/admin/experiment/177048/design - Community participants aged 18-25 (n = 24): https://app.gorilla.sc/admin/experiment/180348/design

The sample sizes include participants that potentially need to be excluded.

##	# A tibble: 22 x	2
##	Random_ID_new	Trial.Number
##	<chr></chr>	<int></int>
##	1 SUPLCM01588	48
##	2 SUPLCM05151	48
##	3 SUPLCM12782	48
##	4 SUPLCM14619	48
##	5 SUPLCM14738	48
##	6 SUPLCM15998	48
##	7 SUPLCM16544	48
##	8 SUPLCM18638	48
##	9 SUPLCM20104	48
##	10 SUPLCM24387	48
##	# i 12 more rows	

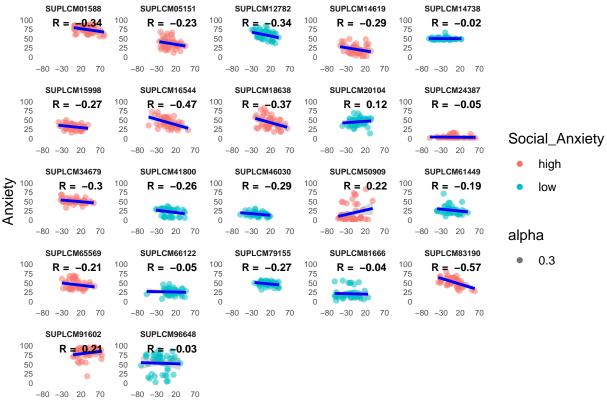
Relationship between prediction and mean histograms (4x only in the beginning)

[1] "average correlation between mean_hist and prediction: 0.565715129856099"



Relationship between Anxiety and SubjPE

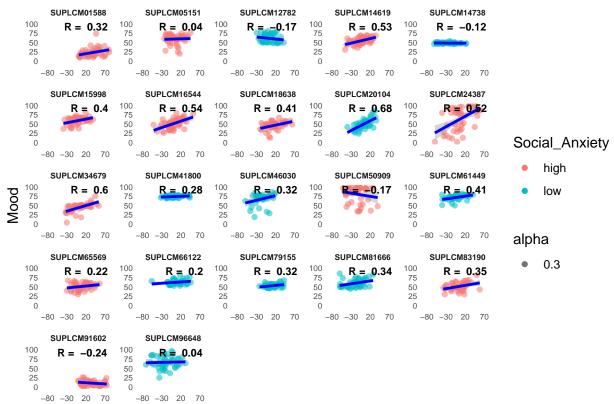
[1] "average correlation between anxiety and SubjPE: -0.184111040759904"



SubjPE: feedback - prediction

Relationship between Mood and SubjPE

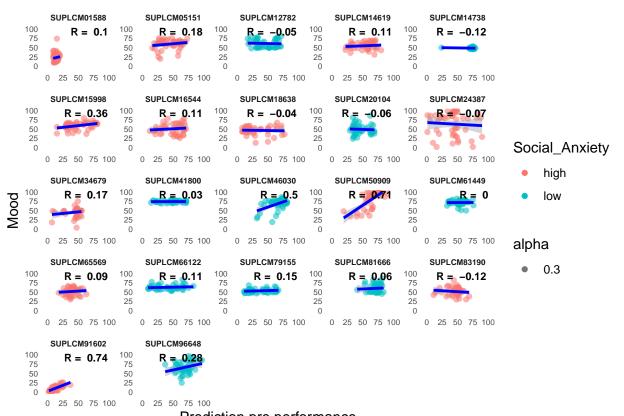
[1] "average correlation between mood and SubjPE: 0.26343108808674"



SubjPE: feedback - prediction

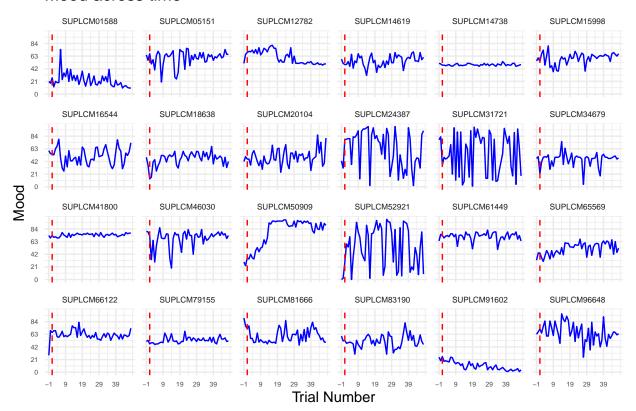
Relationship between Mood and prediction (pre-performance)

[1] "average correlation between mood and prediction before performance: 0.14722601982166"



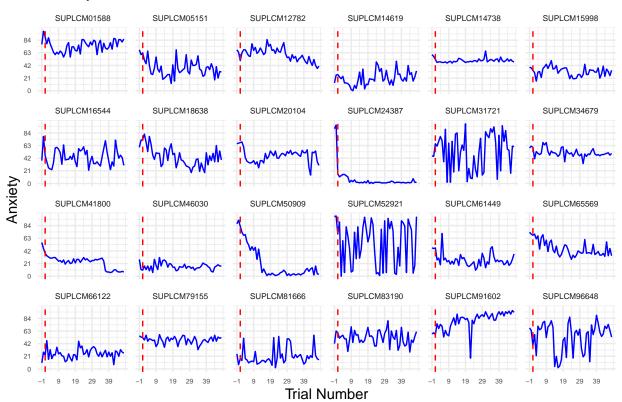
Mood over time

Mood across time



Anxiety over time

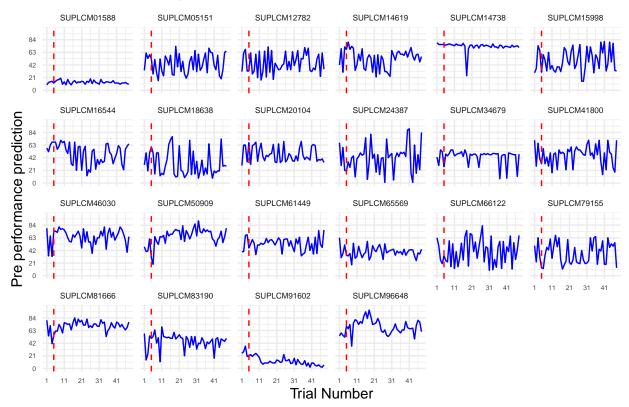
Anxiety across time



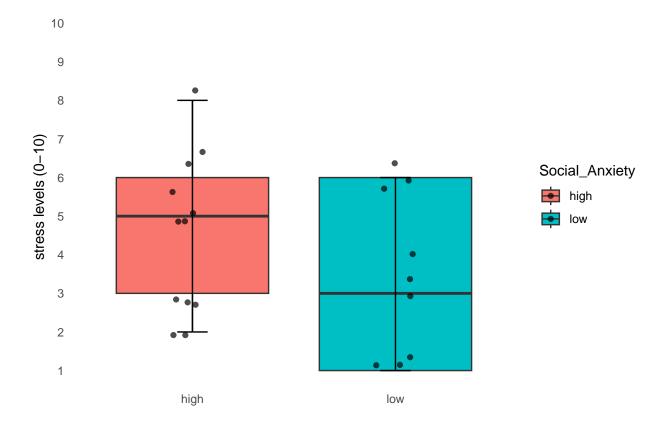
Prediction before performance over time

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

Prediction before performance across time



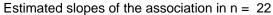
Stress levels and social anxiety

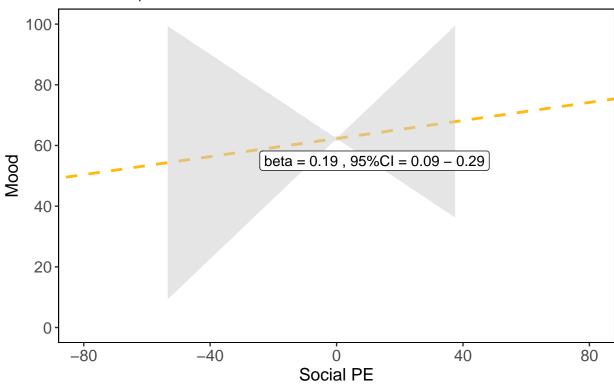


LME models for Mood and SubjPE

The best model seems to be: Mood \sim SubjPE + mini_SPIN_total + (SubjPE | Random_ID_new)

- ## [1] 8332.035
- ## [1] 8389.615
- ## [1] 8330.479



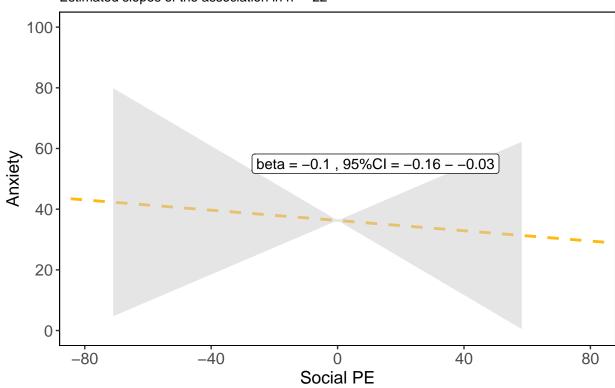


LME models for Anxiety and SubjPE

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

- ## [1] 8359.33
- ## [1] 8370.763
- ## [1] 8358.729

Estimated slopes of the association in n = 22



ICC for Mood

```
## # Intraclass Correlation Coefficient
##
## Adjusted ICC: 0.589
```

Adjusted ICC: 0.589
Unadjusted ICC: 0.589

ICC for Anxiety

```
## # Intraclass Correlation Coefficient
##
```

Adjusted ICC: 0.702
Unadjusted ICC: 0.702