

Surprise study pilot 21

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2124-04-08

Study description

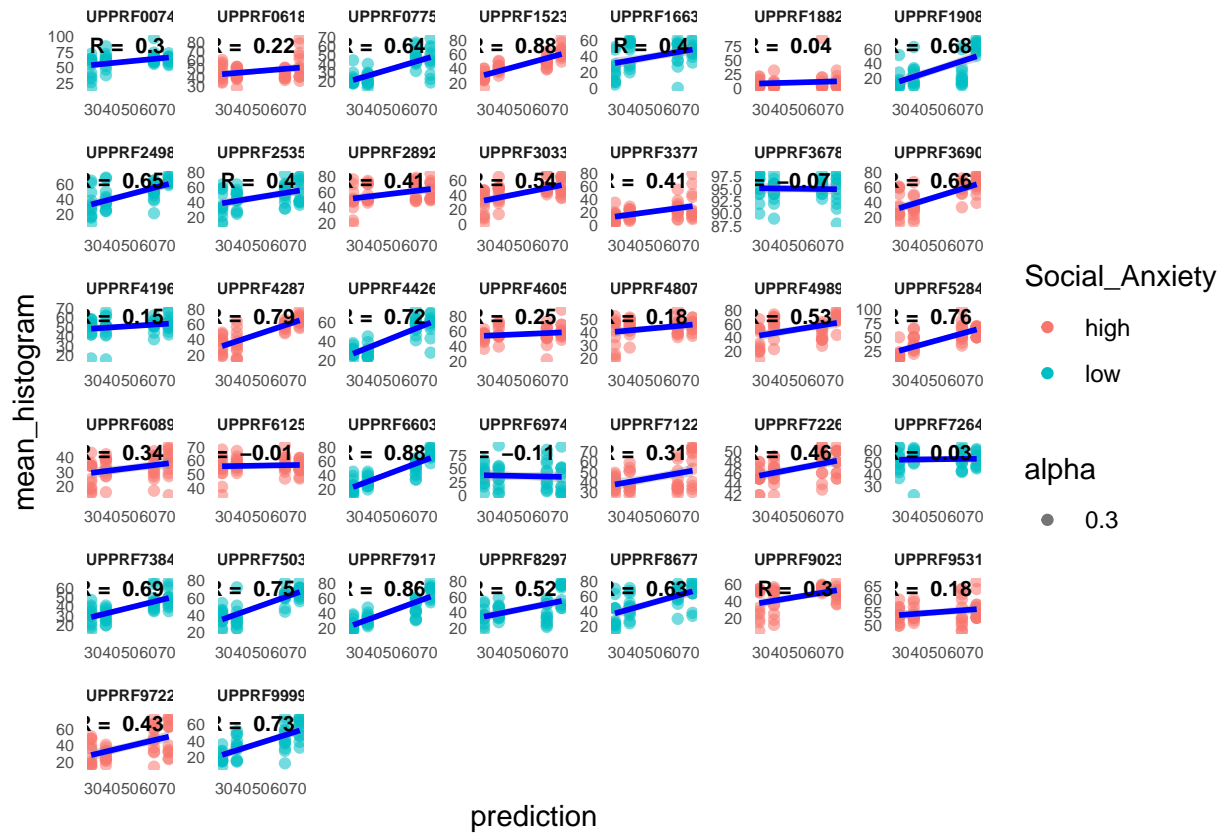
This study is the same as pilot 19, except we have now removed the second prediction after the feedback and replaced the image of the judges with real images of our relatives/friends.

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>

```
## # A tibble: 37 x 2
##   Random_ID Trial.Number
##   <chr>      <int>
## 1 SUPPRF00748      48
## 2 SUPPRF06189      48
## 3 SUPPRF07750      48
## 4 SUPPRF15230      48
## 5 SUPPRF16639      48
## 6 SUPPRF18827      48
## 7 SUPPRF19080      48
## 8 SUPPRF24989      48
## 9 SUPPRF25358      48
## 10 SUPPRF28922      48
## # i 27 more rows
```

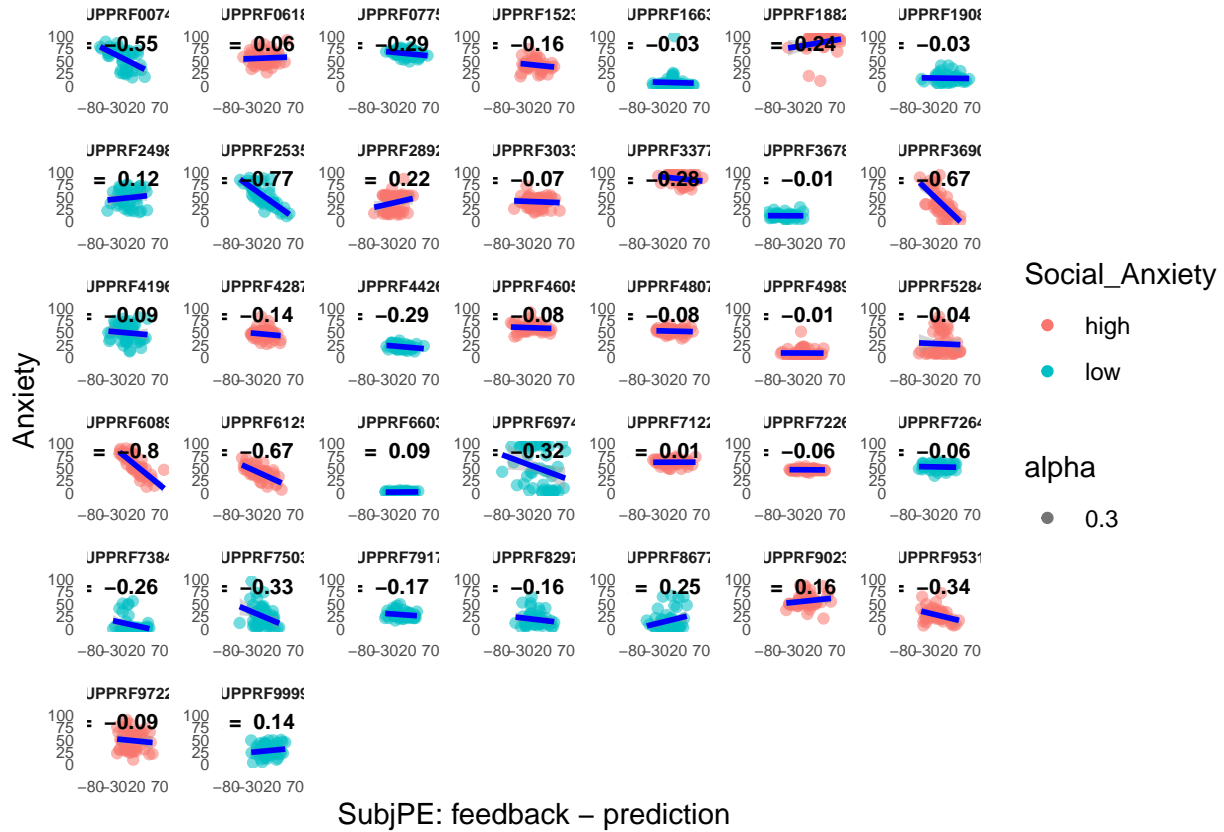
Relationship between prediction and mean histograms (4x only in the beginning)

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



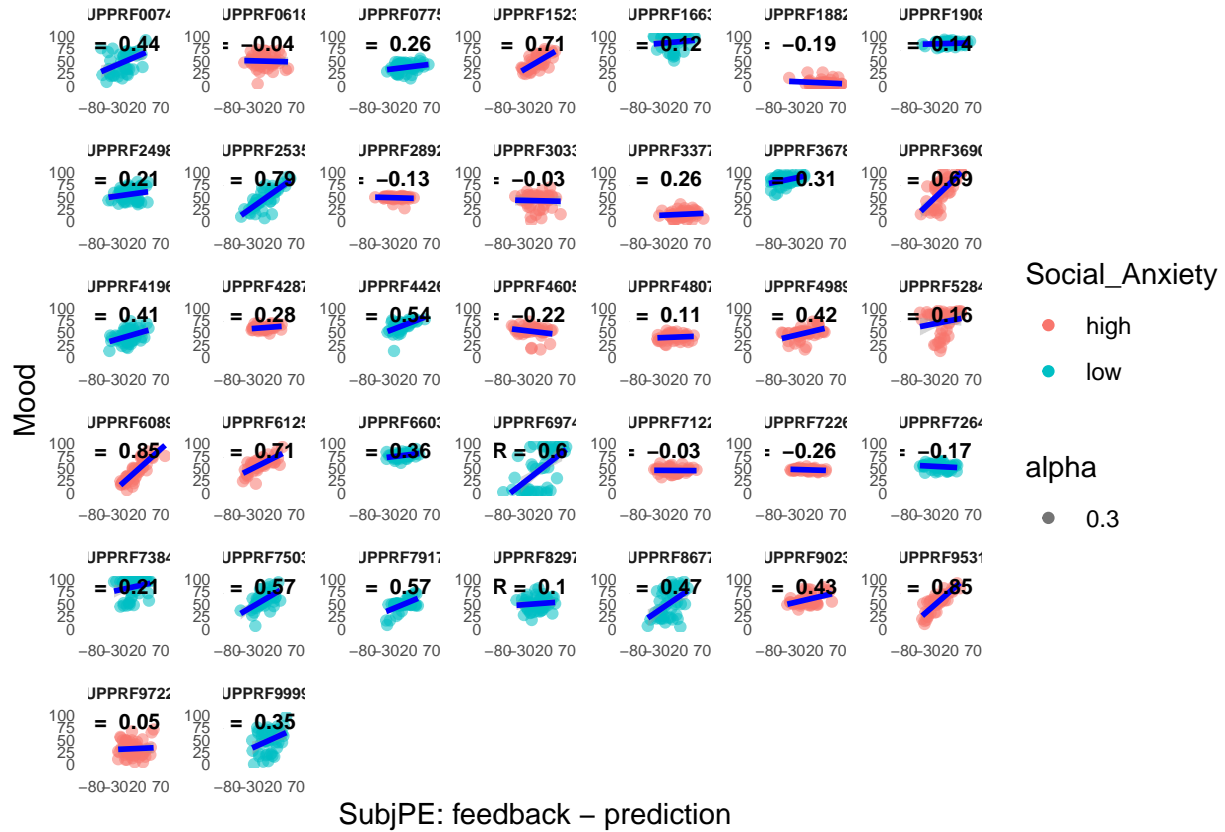
Relationship between Anxiety and SubjPE

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



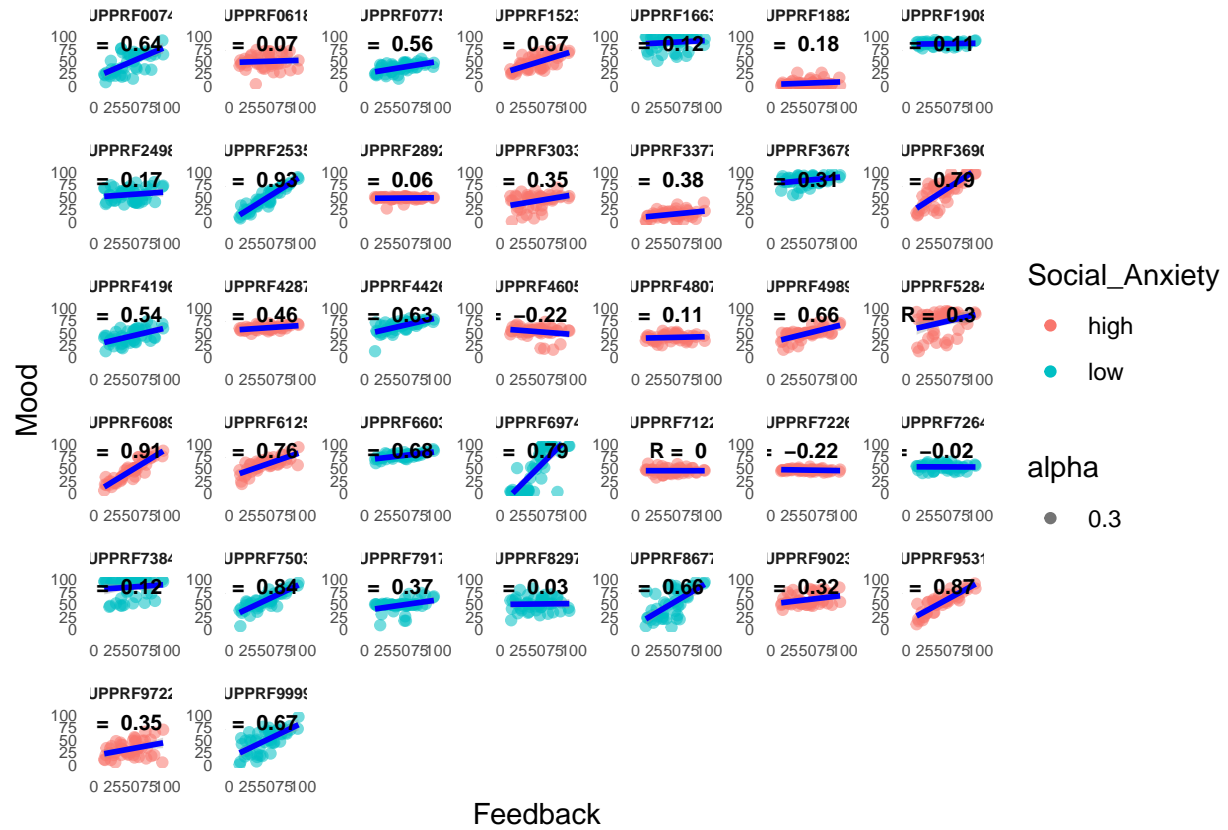
Relationship between Mood and SubjPE

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



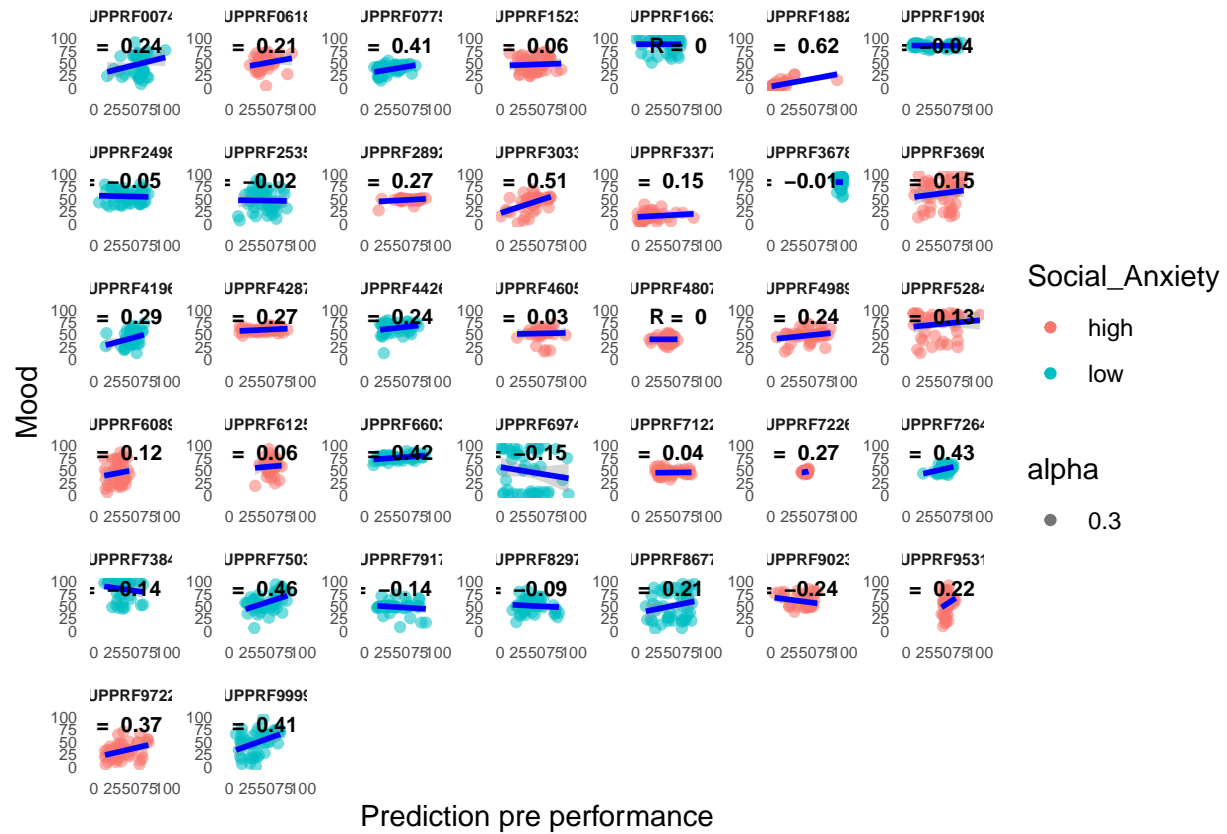
Relationship between Mood and feedback

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



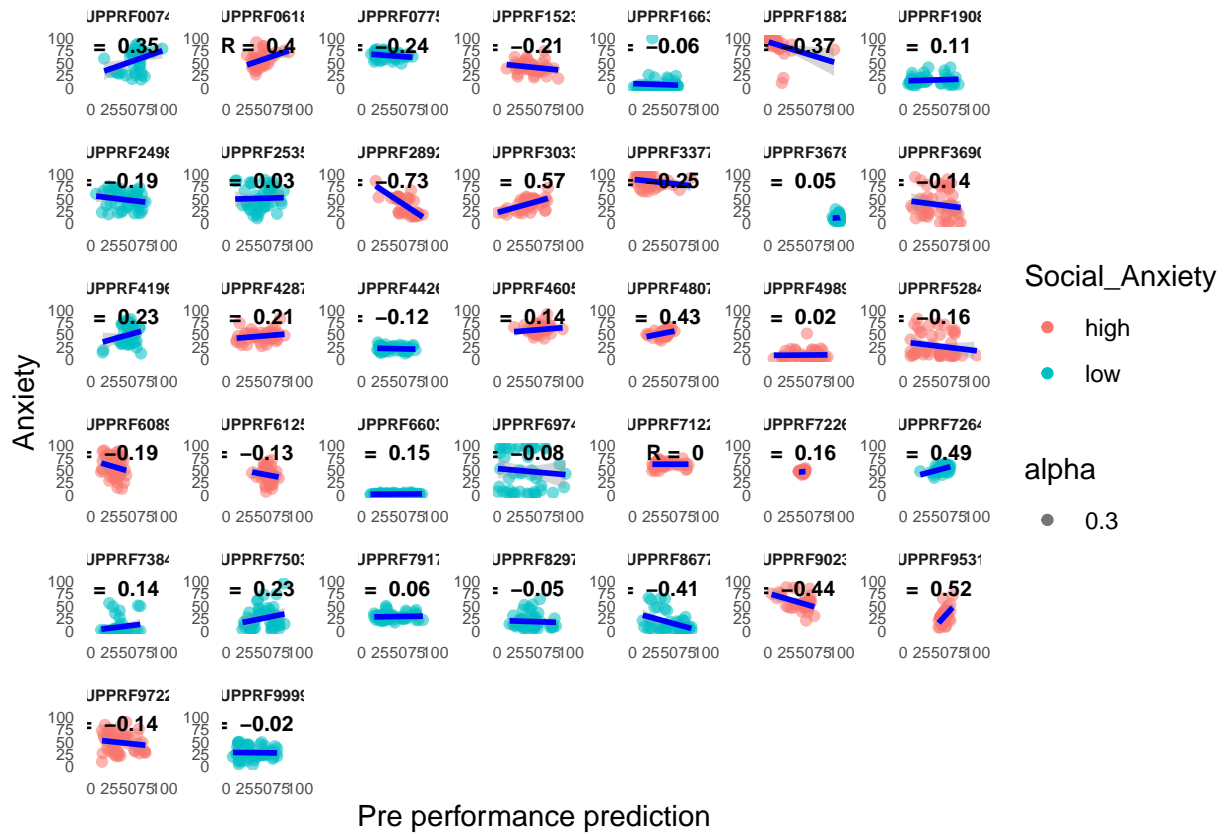
Relationship between Mood and prediction (pre-performance)

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



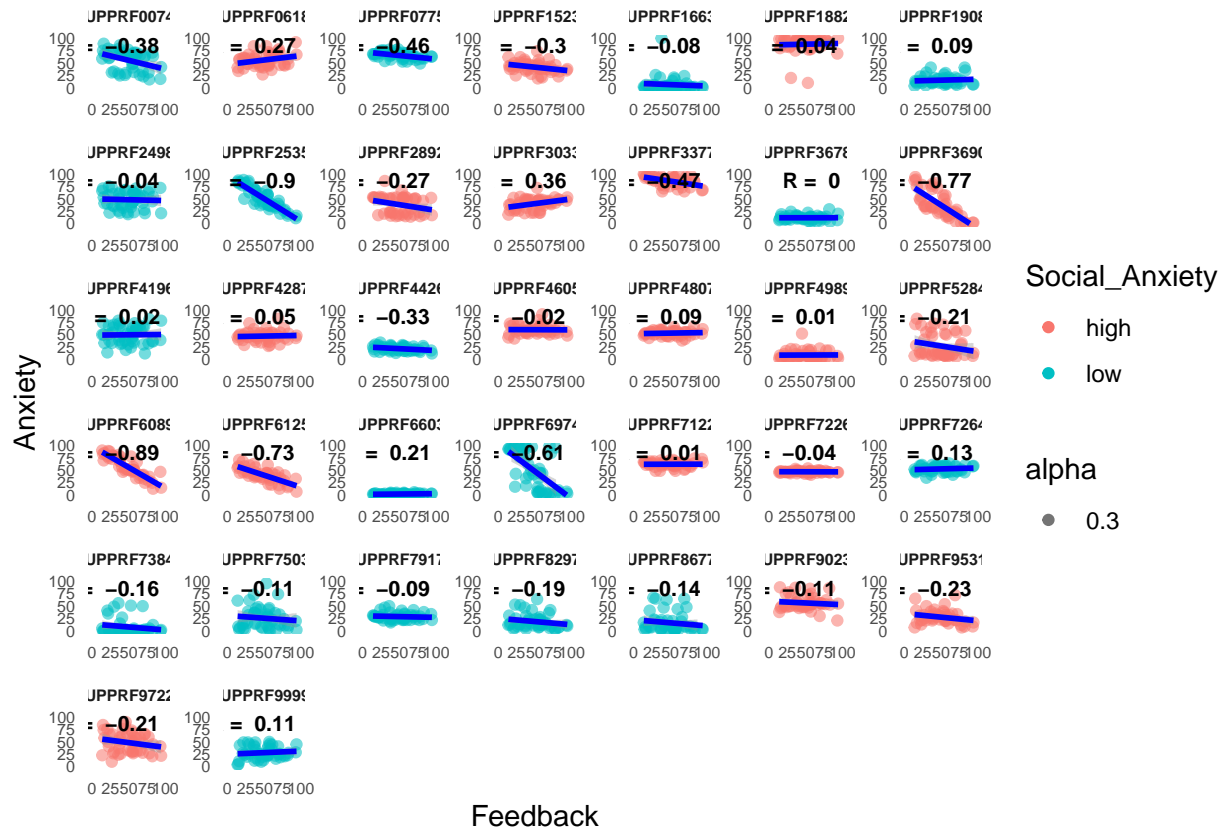
Relationship between Anxiety and prediction

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



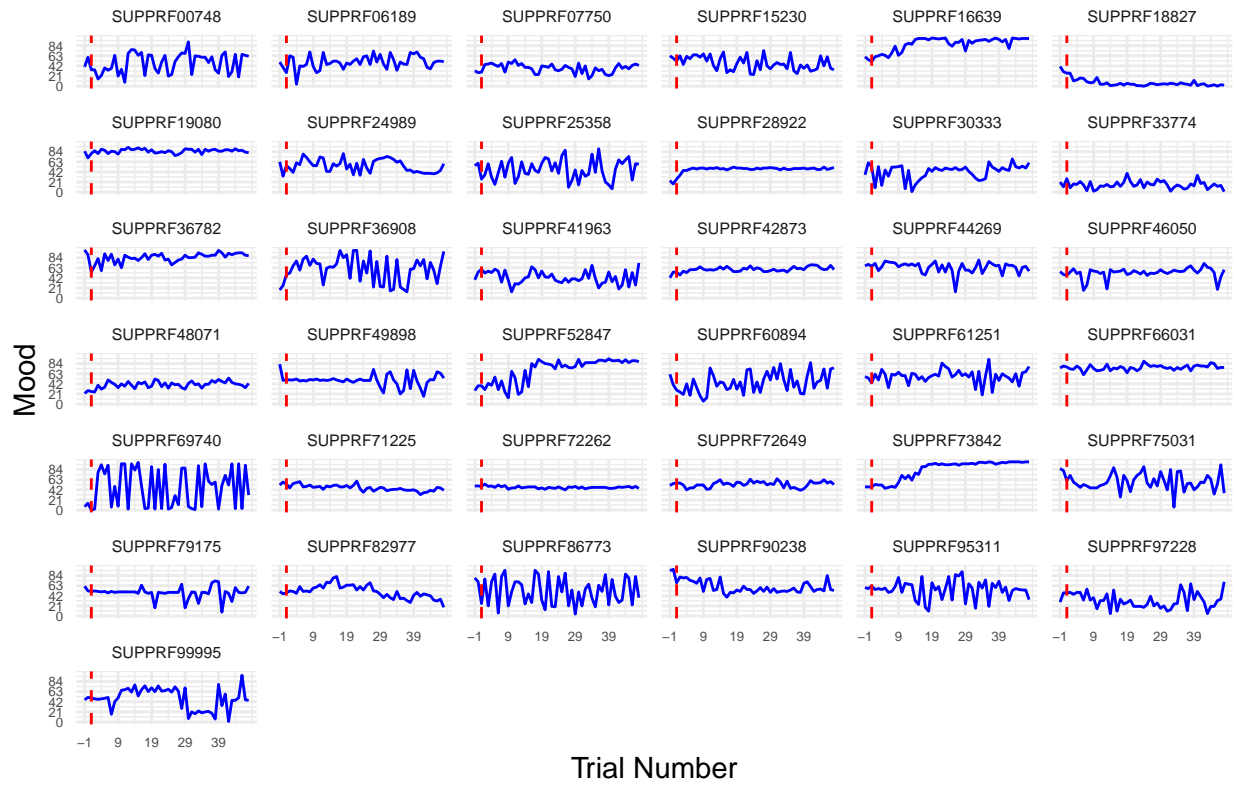
Relationship between Anxiety and feedback

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



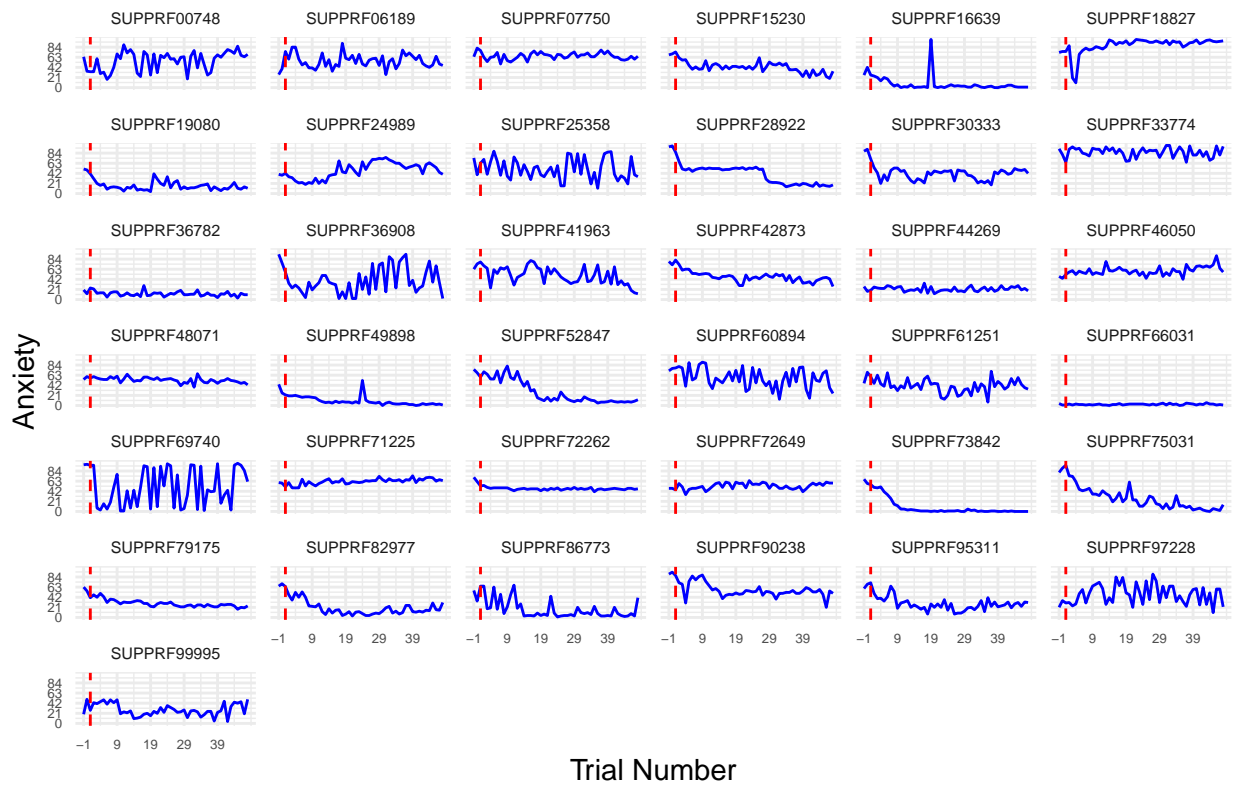
Mood over time

Mood across time



Anxiety over time

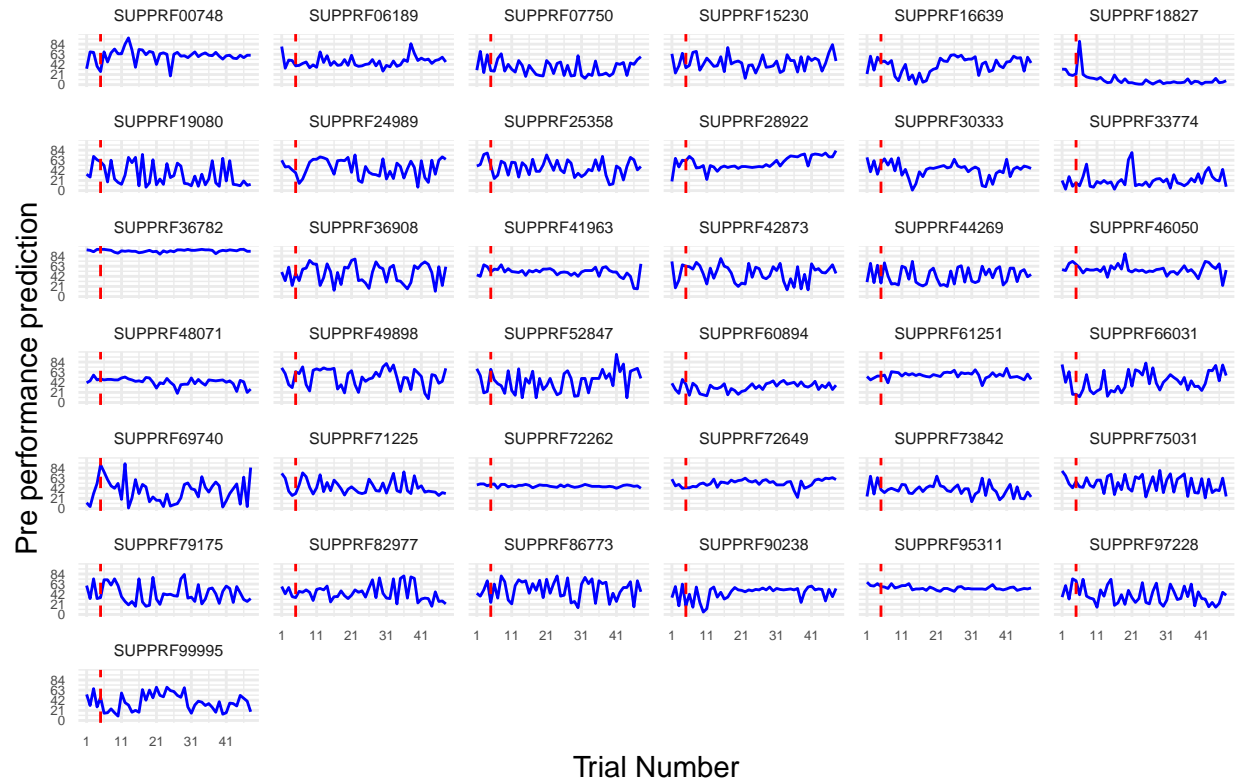
Anxiety across time



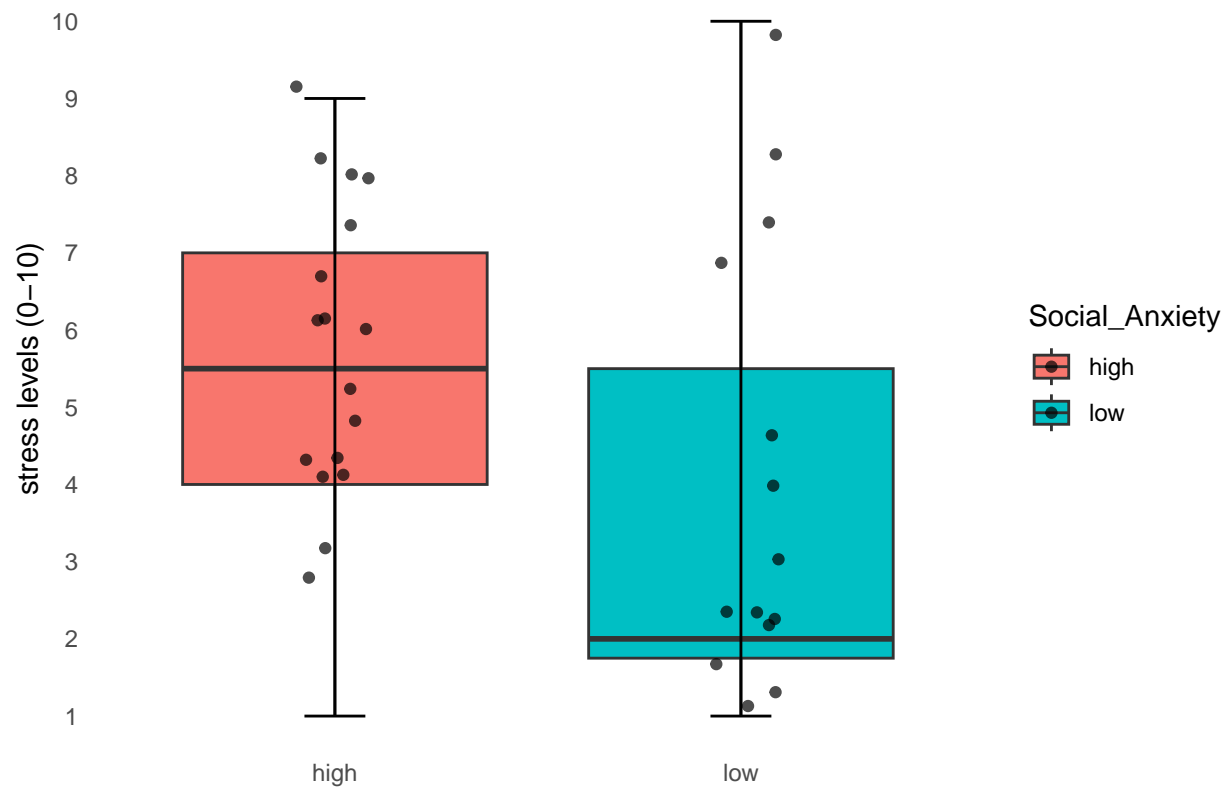
Prediction before performance over time

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

Prediction before performance across time



Stress levels and social anxiety



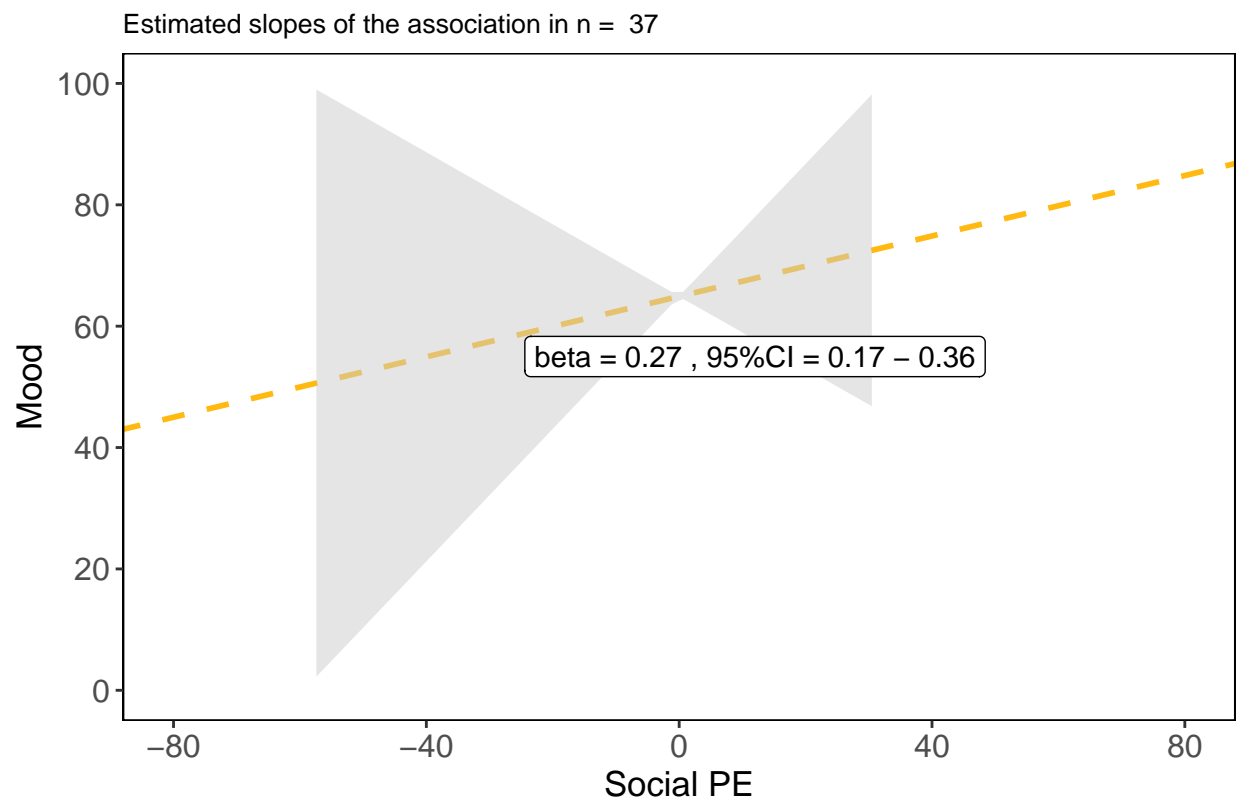
LME models for Mood and SubjPE

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

```
## [1] 14596.58
```

```
## [1] 14807.62
```

```
## [1] 14590.43
```



LME models for Anxiety and SubjPE

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

[1] 14794.93

[1] 14913.84

[1] 14784.54

