

Preliminary Photometry Results: Proper Statistics

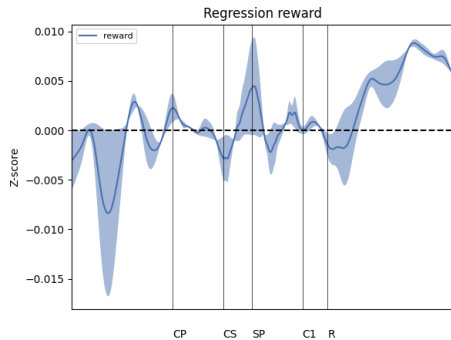
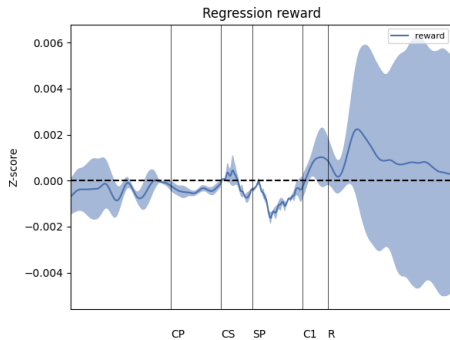
Beren Millidge

September 24, 2022

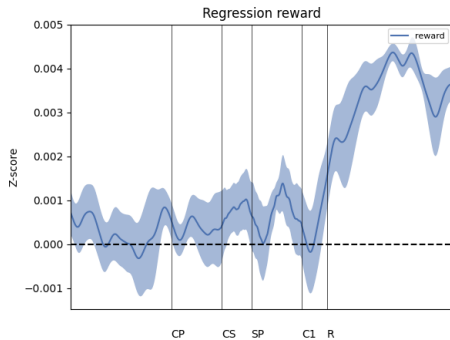
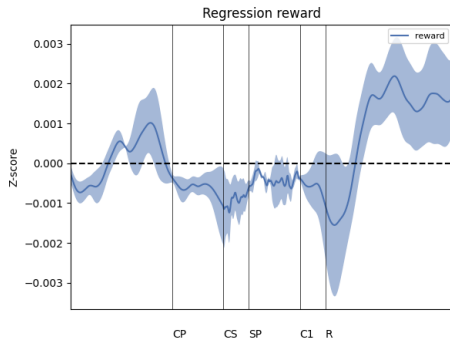
General Updates

- I think I'm now doing the regression analysis properly – each subject is fit separately and then we average / get standard deviations of the coefficients together. Also I'm putting everything directly into the GLM
- Results for the reward seem reasonable, although we have some more early pre-reward activity than in Juans data (I think). D1 DMS becomes highly variable but low mean after reward and I think this might relate to Juan's data where he had 1 subject who had a strong response in the other direction to reward?
- Strong responses to correct choice or not in the right window everywhere but D1 DMS
- Some different responses to force or free choice but no obvious patterns (to me)
- Surprisingly, no apparent effect of hemisphere (the z-scores are tiny!) – not sure why
- Some effects of repeated choice. Clean looking effects in D1 DLS.

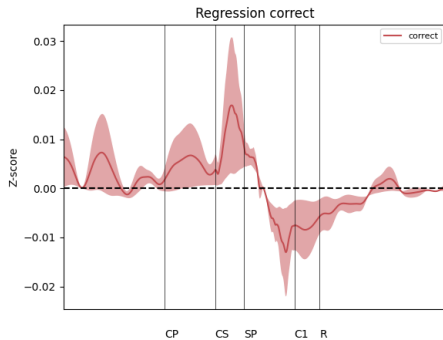
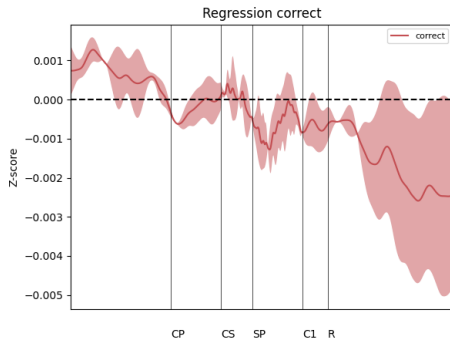
Reward Coefficient D1



Reward Coefficient D2



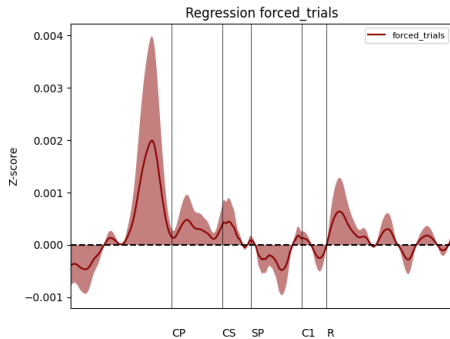
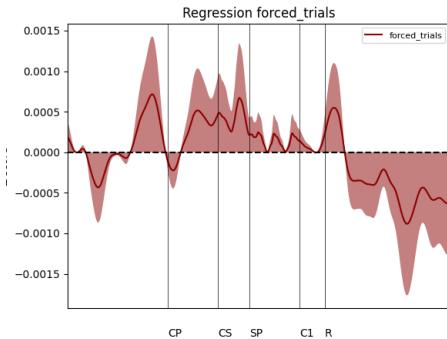
D1 Correct Coefficient



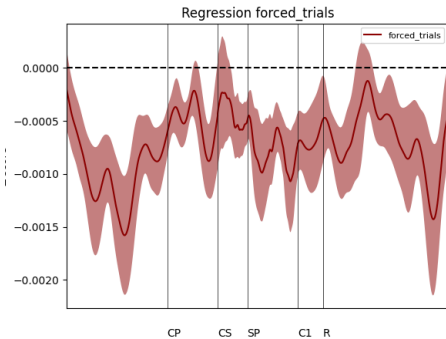
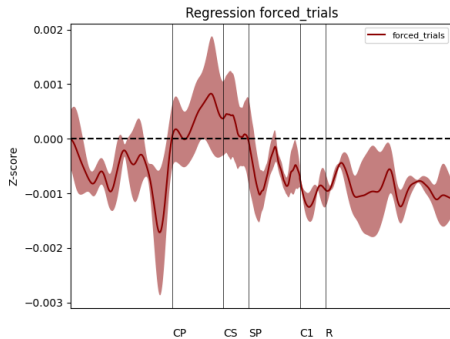
D2 Correct Coefficient



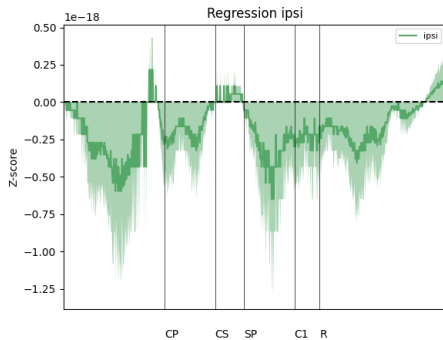
D1 Force vs Free Trials



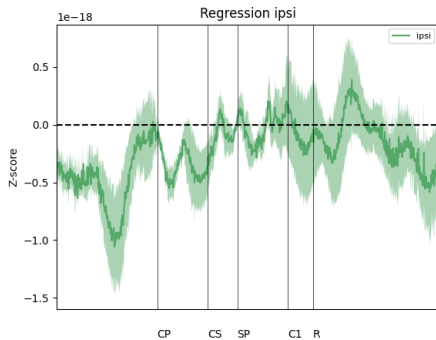
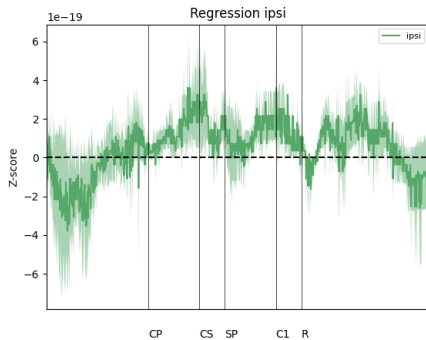
D2 Free vs Force Trials



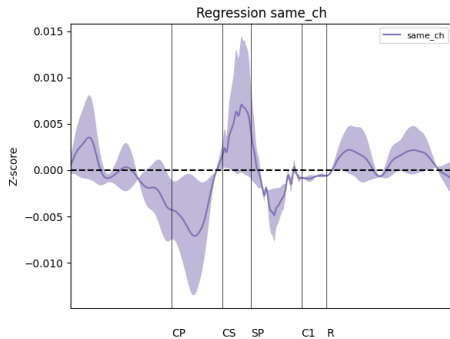
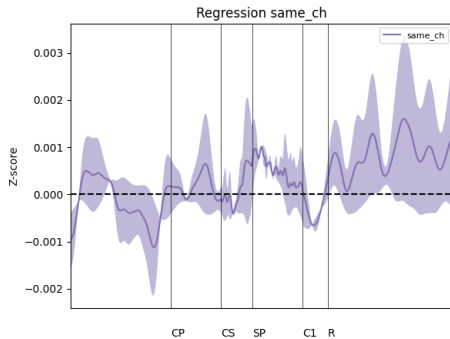
D1 Ipsi vs Contra



D2 Ipsi vs Contra



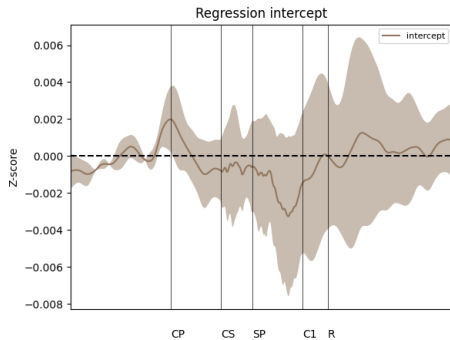
D1 Repeat Choice



D2 Repeat Choice



D1 Intercept



D2 Intercept

