**Shifting Expectations: Criterion shift association of EEG, in a recognition memory security patrol paradigm.**

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**Criterion Shifting**

Appropriate decision criterion placement is particularly important for suspect identification in a security setting, such as a police or military patrol. In these scenarios, false alarms can lead to innocent people getting hurt or even killed.

### Current Study

The decoding analysis revealed that high beta band (25-28 Hz) power may be able to have distinct temporal patterns between conservative and liberal criterion placement. When we compare ERP power for strong and poor shifters, the reduction in poor shifters show an increased reduction in beta power in both liberal and conservative Hits and Correct rejections, while strong shifters show a more modest in conservative Correct rejections and Liberal hits. The Pearson correlation analysis also shows beta power is negatively correlated with individual tendency to shift criterion for Conservative and Liberal Hits and Correct Rejections contrasts. However, the correlations were very modest. This indicates the potential relationship between beta power and individual tendency to shift may be complex than what our Pearson model is able to show. We are currently designing a decoding analysis to see if temporal patterns can distinguish between strong and poor shifters in the hope of developing a more robust model.

### References


### Acknowledgements


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