1. **Challenges & Delays**

In pursuing this project, we have addressed a few challenges that have materialized. After having recruited 87.5% of our sample, we exhausted our subject pools and had a brief period without additional recruits while we transitioned to a new strategy. We expanded recruitment efforts through flyering, which revitalized recruitment and allowed us to acquire the last subjects of our sample in late 2023. A second challenge came within our analytic strategy, as we initially failed to find any brain-behavior relationships present in the data – even when using simulated neural data which definitively should have contained some correlations. What we discovered through literature review was that we failed to account for spontaneous neural fluctuations, which disrupt any correlative analysis and which long-form video fMRI is especially susceptible to. There are multiple analytic techniques that one could use to adjust for this effect, but we settled on the application of dynamic sliding window due to their popularity, flexibility, and simplicity. To apply dynamic sliding windows, I developed a series of functions in R which accept any two numeric arrays and outputs the individual and summary correlative values using a spearman-rank approach. This fixed our issue and the final developed functions have been made publicly available via Github. As we prepare to submit our manuscript future delays and complications may stem from challenges from reviewers to any project or additional analyses requested by reviewers to supplement what we have already produced. Although it was not the primary project that my F99 application centered upon, I had previously noted that we are pursuing a follow up based upon that study. To anticipate delays, we have secured new lists of potentially eligible, reliable subjects from collaborators, but recruitment may pose an issue in this study as well.