

Questions:

- a. Would it be okay if the bulk of writing is the introduction and methods? At this point, I am in the process of replicating Germani et al. (2025) and running their scripts (and trying to debug), so I'm not sure if the current plan is too ambitious.
- b. For the discussion, is it okay to include more subjective reflections on the process of learning? Or should it be solely technical (4.a)

1. Introduction

- a. Review of the problem for multiverse
 - i. fMRI preprocessing and analysis steps overview
 - ii.

2. Methods

- a. Dataset: Human Connectome Project
- b. Detailed explanation of Germani et al. (2025), which is an attempt of multiverse analysis
 - i. 12 pipelines for 2 softwares (FSL, SPM) on the motor task
- c. Current project
 - i. Replicating Germani et al. (2025)
 - ii. 12 pipelines for 1 software (FSL) on the gambling task

3. Results

- a. Replicating Germani et al. (2025)
 - i. Issues with repository on github
 - 1. Data structure
 - 2. Errors in script
 - ii. Efficiency
- b. Gambling task
 - i. New findings

4. Discussion

- a. Reflection on current project
 - i. What the current project has achieved
 - ii. Data science ethics
 - iii. Multiverse analysis' issue
- b. Next steps of the project
 - i. 12 pipelines for both FSL and SPL on gambling task
 - ii. Optimizing the script for easier accessibility