**MIND TBSS**

(Created by Kayti Keith 3/19/19; Edited by Kayti Keith 5/7/19)

**Scripts in:** MIND\_shared\\_MIND\ResearchProjects\MRI\_Processed\WM\_Skeleton\_TBSS\03\_Analysis\Scripts

**Processing times based on:** Mac, FSL 5.09

**Note**: Most scripts require manual path changes to be done before they are run.

**Step 1: File Setup**

* Make a text ID file listing all subjects
* Run script **A01\_BET-1\_Copy\_b0\_and\_DKI\_mets**
  + **T**his script sets up files for later processing
    - TBSS requires files to be in the folder format: /Your\_Processing\_Folder/Phase1/BETprocessing

**Step 2: BET and BET QC**

* Run script **A02\_BET-2\_BET\_and\_QC**
  + This script skull strips your B0 and metric maps
  + Enter your BET threshold
    - 0.3 was used for this project
* Run script **A03\_Pre-TBSS\_MovingDKImaps-bet**
  + This script arranges files into TBSS’s require folder structure:
    - /Your\_Processing\_Folder/Phase1/DKI
    - /Your\_Processing\_Folder/Phase1/WMM

**Step 3: TBSS**

* Run TBSS scripts: **A04\_TBSS\_1** through **A10\_TBSS\_5B**
  + These scripts run through the entirety of TBSS and generate 4Ds and skeletonized 4Ds for all metrics:
  + 

**Step 4: Split 4Ds**

* Run script **A11\_4d\_Split**
  + This script splits 4D skeletonized maps into individual subj skeletons across all metrics
    - It also creates a copy of the JHU fornix into each subj folder for later processing