

## Instruction on running SPRT and Preprocessing.

1. Log in to the Linux server under Sarah's account. Create two sessions, one for SPRT and one for Preprocessing. Username: sjc95
2. Change directory to the experiment folder.
3. After Sarah creates the alignment file and ROI mask for 1-back protol. Type in the following command in each session.

SPRT: (Black is the command to type in and red is explanation)

```
make                                     Compile the source code and generate executable
./SPRT_P 238 8                         238 indicates full-length 1-back protocol. 8 is the
column size of the design matrix
```

SPRT will ask for a few more parameters:

```
K_block:      usually 78, but ask Dr. Tatsuoka first.
 $\theta_0$ :      0
selector:      2
C1:            0 1 0 0 0 0 0 0
C2:            0 0 1 0 0 0 0 0
alpha & beta:  usually 0.01 0.7, but ask Dr. Tatsuoka to confirm.
Z score:       ask Dr. Tatsuoka to confirm (usually range from 2.5 to 3.5)
percentage:    usually 60 60, ask Dr. Tatsuoka to confirm.
```

Preprocessing:

```
python2 preprocessing.py 238 0 [parrec file directory] [parrect filename prefix format] [nifti file
directory] [alignment file path] [bold text file directory] [ROI file path]
```

An example:

```
python2 preprocessing.py 238 0 ./parrec/0001/ Dump-000 ./nifti/ ./fmri_brain.nii.gz ./Latest_data/
ROIs/hard_target_fmri_bin.nii.gz
```