Acronym Interface Package:

MCL tool for BIDS, AFNI, DICOMs, NIfTIs, CNDA, GLMs, and more!

GUI script (run these!)

Functional script

Data_Prep_Bundle

Data_Prep.py
GUI to prepare raw MRI and behavioral data

Takes as input:
DICOMs (downloaded by script)
.csv files containing behavioral data (from *PsychoPy*)
.log files containing timing data (from *PsychoPy*)

Setup_BIDS_Folder_Structure.py
-Create a folder structure for the participant(s) data, following the BIDS specification

DICOM_Files.py
-Download participant fMRI data (DICOMs) from remote CNDA repository
-Back up DICOMs to remote Icarus server

NIfTI_Files.py
-Convert DICOMs to NIfTI format using *dcm2niix*
-Reorganize NIfTI files into BIDS folder structure

Generate_BIDS_Event_Files.py
-Codes behavioral data (from .csv and .log files) and generates BIDS-style event files

Create_AFNI_Timing_Files.py
-Use BIDS event files to generate AFNI timing (onset) files

These scripts **MUST** be edited for your individual experiment

To use these scripts, you must have the following installed:
-*pydicom*: used to read DICOM header info
-*dcm2niix*: used to convert DICOMs to NIfTIs
-*sshpass*: used to upload files to Icarus

AFNI_Script_Bundle

Generate_AFNI_Scripts.py
GUI to create AFNI processing scripts

Creates:
-Preprocessing scripts
-GLM scripts
-t-test scripts

Preprocessing and GLM scripts use a template (.txt file) which can be modified to alter AFNI script outputs

For scripts with "Auto" input options, a spreadsheet can be used to enter data rather than the GUI provided

Parameter input options:

	Manual	Auto
Preprocessing scripts	✓	
GLM scripts	✓	✓
t-test scripts	✓	✓

Additionally, all scripts can be backed up to remote Icarus server