FreeSurfer Recon-All Class

Winter 2017

Location: TBD **Schedule:**

Class	Covers	Date/Time	For Further Practice
Introduction	 Freesurfer overview Installation MRI T1w data Pipeline overview (recon-all) 	1/9/17 11:00am	Install Freesurfer! Download the class bin Process Monica brain (or your own)
		1/11/17 4:30pm	
Data Preprocessing	Autorecon1:Motion correction (ish)Talaraich registrationNU correctionSkull stripping	1/23/17 11:00am	Process Meghan brain (or your own) Manually adjust Tal registration Edit brainmask
		1/25/17 4:30pm	
Segmenting the Brain	Autorecon2: • WM/GM surface generation • Subcortical segmentation • TKMedit GUI	1/30/17 11:00am	 Run a brain through autorecon2 Pull up the wm.mgz and brainmask Edit pial/wm lines Run a brain through autorecon3 Open aparc+aseg.mgz and brain in freeview Extract data
		2/1/17 4:30pm	
Parcellating the Cortex	Autorecon3: Surfaces and atlases Freeview GUI Extracting data	2/6/17 11:00am	
		2/8/17 4:30pm	
Other Cool Freesurfer Stuff	 Using multimodal data Hippocampus segmentation TRACULA PETSurfer (and PVC) PySurfer 	2/13/17 11:00am	Segment M&M's hippocampus Run Meghan's DTI
		2/15/17 4:30pm	brain in TRACULA 3. Visualize a brain using the PySurfer script

Helpful Links

Class GitHub Page: https://github.com/catcamacho/freesurfer_class

Wiki Landing Page: https://surfer.nmr.mgh.harvard.edu/fswiki/FreeSurferWiki Installation: https://surfer.nmr.mgh.harvard.edu/fswiki/DownloadAndInstall

Recon-All Page: https://surfer.nmr.mgh.harvard.edu/fswiki/recon-all

v5.3 Table: https://surfer.nmr.mgh.harvard.edu/fswiki/ReconAllTableStableV5.3