FreeSurfer Recon-All Class

Winter 2017

Location:

Monday classes- Jordan Hall room 286 (420-286)
Wednesday classes- Jordan Hall room 419 (420-419)

Schedule:

Class	Covers	Date/Time	For Further Practice
Introduction	Freesurfer overviewInstallationMRI T1w dataPipeline overview (recon-all)	1/9/17 11:00am 1/11/17	Install Freesurfer Download the class bin Process Monica brain (or your own)
		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 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
		1/25/17 4:30pm	
Segmenting the Brain	Autorecon2:WM/GM surface generationSubcortical segmentationTKMedit GUI	1/30/17 11:00am	
		2/1/17 4:30pm	
Parcellating the Cortex	Autorecon3:Surfaces and atlasesFreeview GUIExtracting data	2/6/17 11:00am	
		2/8/17 4:30pm	
Other Cool Freesurfer Stuff	Using multimodal dataHippocampus segmentationTRACULA	2/13/17 11:00am	Segment M&M's hippocampus Run Meghan's DTI brain in TRACULA
		2/15/17 4:30pm	

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