

Assignment 3

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1 README before running

Assume that a raw bold response for a particular task is given. Don't forget to adjust the parameters in the running_prestats.sh before running the matlab scripts. It should be run first. Then we can move to exampleRun.m. It takes two parameters where first is the input and second is FWHM parameter. It produces 5 outputs with 5 HPF cutoffs applied 80 to 120s. Now please run running.sh and then running_task001 to running_task003 one by one.

We can get the number of voxels above a certain z-value by running threshcount.m.

2 Table

	HPF Value	Spatial Smoothing Parameter	Size of largest cluster	Voxel	Largest Z value
nbacktarget_task001	110	4	4	[33,10,3]	2.9
nbacktarget-nbacknontarget_task001	110	4	7	[35,25,6]	3.18
nbacktarget_task002	80	6	11	[35,7,27]	2.7
nbacktarget-nbacknontarget_task002	80	6	27	[37,7,27]	3.87
nbacktarget_task003	100	4	7	[34,4,23]	3.95
nbacktarget-nbacknontarget_task003	80	6	15	[35,4,15]	3.36