

GridCAT Analysis Global

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Grid Cell fMRI signal analysis in PREVENT

This document provides a full pipeline to running GridCAT toolbox functions on preprocessed EPIs, raw grid cell task data with pre-generated ROI masks.

GridCAT scripts:

1. runGridCAT.sh >
2. gridcatsubmit.sh to submit to SLURM >
3. gridcatprepare.sh which first calls GCAP_logfile2eventtable.m and then GridCAT_mainfunc.m with ROI/SPM threshold flags etc.

Output = individual subject .txt files on gridCAT metrics per ROI, which are collated via standalone_collateGridCAToutput.m run manually in Matlab in case mask names/paths/indexing needs altering) to make .csv file for all subjects with all outputs.

Must define filepaths within runGridCAT.sh and .txt file with subjects to run

Must define mask filepaths to use within GridCAT_mainfunc.m

Run GridCAT and load in output

Manually collate with standalone_collageGridCAToutput.m

```
#pathstem=/lustre/scratch/wbic-beta/ccn30/ENCRYPT/scripts/GridCAT  
#./runGridCAT.sh
```

```
# load in data and tidy
```

Load in PREVENT metadata

PREVENT baseline data from data request for n=35 so far