# **Workflow Travel-RSA**

Data requirement: 1. Unsmoothed data. 2. Similarity/ dissimilarity matrix 3. CoSMoMVPA toolbox (http://cosmomvpa.org/index.html).

Whole-brain searchlight RSA

1. Extracted data of each condition to a xxx.nii.gz

Using ./Travel\_unsmooth\_results\_rsa2mm.sh and ./run\_fsf\_rsa.sh, we could get the values of each condition. Additionally, run\_fsf.sh could be used when run all subjects.

1. Run RSA and multiple regression RSA (GLM RSA) with different models. Specifically, in my experiment, they are RSA\_MDS.m, RSA\_VGG.m, runRSA\_IdealizedM,m, RSA\_glm\_vgg.m, runRSA\_glmlevelsvgg.m, runRSA\_glm\_IdealizedM.m
2. Group analysis
3. Smoothing data with Smooth5.sh and run\_smooth.sh.
4. Statistics analysis
   1. create a map of all subjects with createStatMapTRAVEL.m, makeStatmapGLMtwofactor.m, makeStatmapGLMlevelsvgg.m
   2. conduct TFCE threshold with TFCE\_group.m, TFCE\_groupGLMtwofactors.m, TFCE\_groupGLM.m
   3. make a tmap for visualization with make\_statMap.m, makeStatmapGLMlevelsvgg.m, makeStatmapGLMtwofactor.m