script\_r2pca.m: script where you can/need to manually set all params within the script, then can run the script and it will do r2pca recon

run\_r2pca.m: same as script\_r2pca, but pass all parameters as input arguments to function, and it returns results as out args

^ These are for simulated data analysis. They generate simulated data with specified params and then do r2pca recon.

R2PCA\_noisy.m: this just does the two r2pca noisy recon steps (LoR\_noisy and Sp\_noisy), for given M(data), r(rank), k(block size), sigma\_n(noise level).

Sp\_noisy.m: This does step 2 of the noisy r2pca recon

LoR\_noisy.m: This does step 1 of the noisy r2pca recon