



T-test (A , B)

T-test (A , chance)

What is your goal?

paulscotti.com/navigateFMRI
add **#method_name** to end of this URL
to learn more about a specific technique

Explore **where** brain responds
to different things
(brain mapping)

Searchlight analysis **#searchlight**
Repeated analyses across spheres of voxels all over the brain

Phase-encoded
mapping /
Travelling wave
#retinotopy

Functional connectivity
#fc

Population receptive
field mapping
#prf

Understand **specific brain
region(s)** functioning

Repetition suppression / Adaptation
#repetition_suppression

Multivariate pattern classification
#mvpa

Population receptive field
mapping
#prf

Univariate
analysis
#univariate

Dimensionality reduction
#dimensionality_reduction

Representational
similarity analysis
#rsa

Encoding & decoding model
#encoding_decoding

Correlation-based analysis
#mvpa_correlation

Inverted encoding **#iem**

Predict experimental stimulus
or condition from brain activity

Multivariate pattern classification
#mvpa

Neural network
#neural_network

Encoding & decoding model
#encoding_decoding

Convolutional **#cnn**
Reinforcement **#rnn**

Inverted encoding **#iem**

Examine **subpopulations**
(clinical, demographic, etc.)

Shared response modeling
#srm

Psychophysiological interaction
#ppi

Connectome
fingerprinting
#fingerprinting

Effective connectivity /
Dynamic causal modeling
#dcm

Complexity

Graph theory /
Network neuroscience
#graph_theory