*Code for all simulations in:*

Noise Correlations for Faster and More Robust Learning

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**Primary files:**

noiseCorrAsInductBias.m

This script runs a simulation of learning a coarse motion discrimination task (eg. Gold & Law 2007). It produces figure 3 from manuscript (perceptual learning with different levels of noise correlations) and figure 6 from manuscript (Hebbian learning to produce useful noise correlations).

Instructions for use:

% Set location of folder on local machine in "baseDir" on line 30

% Then code should run without additional changes.

makeAnalyticalFigure.m

This script performs analytical analyses of learning trajectories under different levels of within pool noise correlation.

Instructions for use:

% Instructions:

% 1) Navigate to noiseCorrelationAsInductiveBias folder,

% 2) and run script.

cohenNewsomeSim.m

This script runs a simulation of a two-dimensional learning task modeled after Cohen & Newsome 2008. It produces figure 7 from the manuscript.

% Instructions for reproducing results:

% 1) navigate to noiseCorrelationAsInductiveBias folder

% 2) run script.