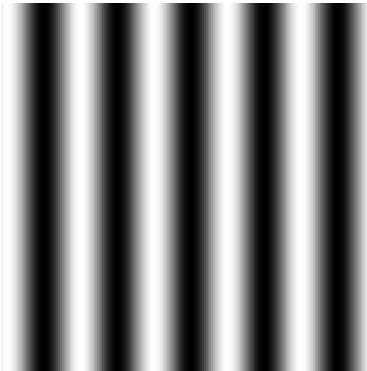
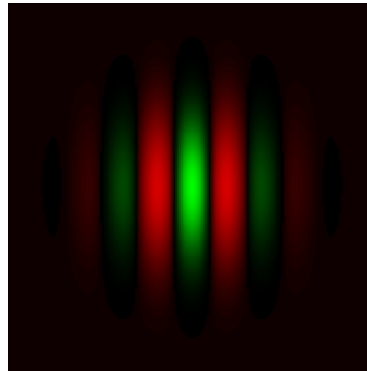


The 'Linear-Nonlinear' model

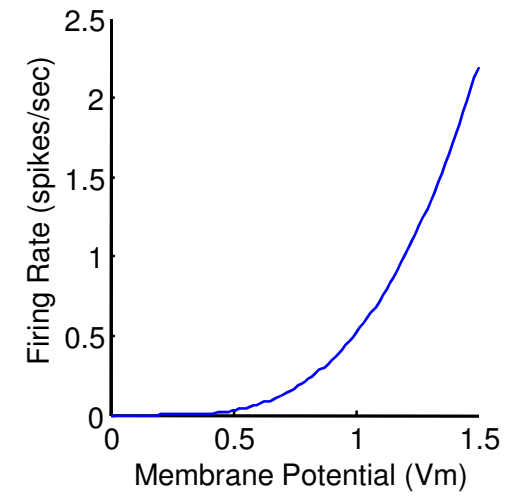
Stimulus



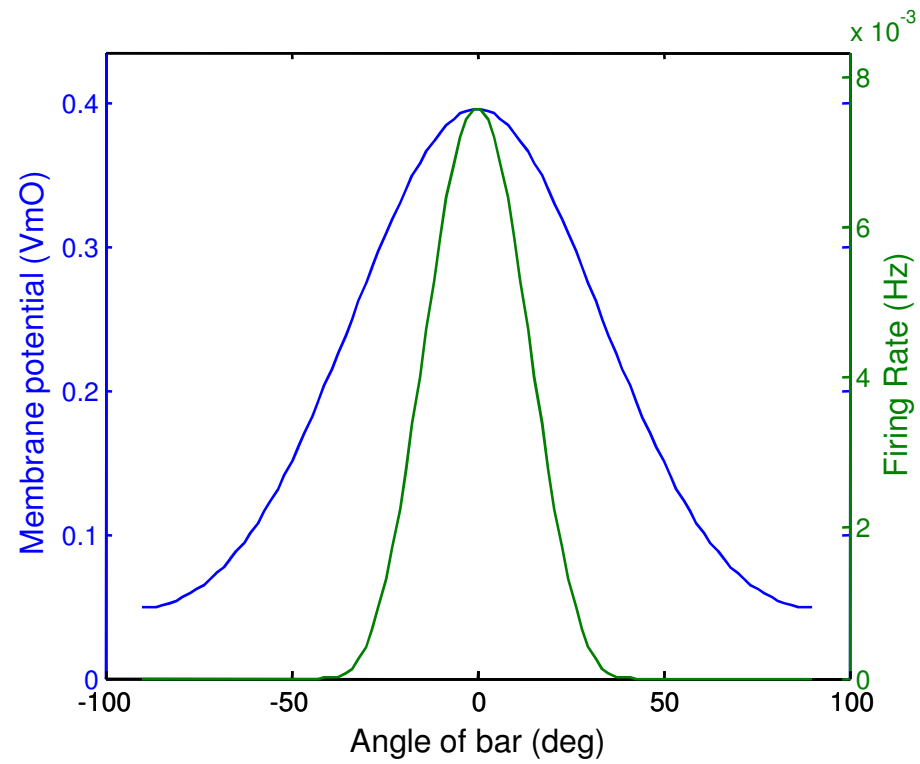
Linear Receptive Field



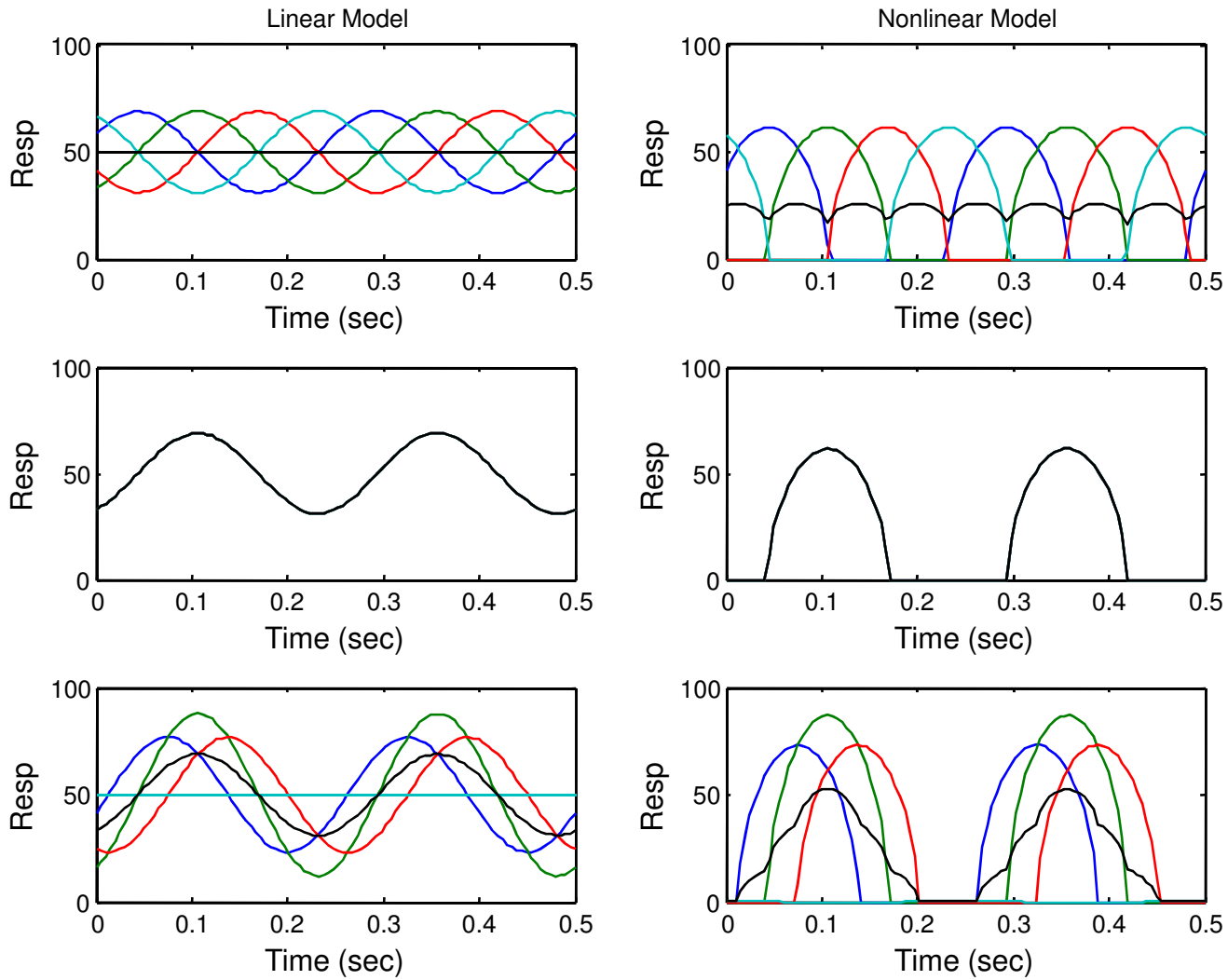
Threshold & Nonlinearity



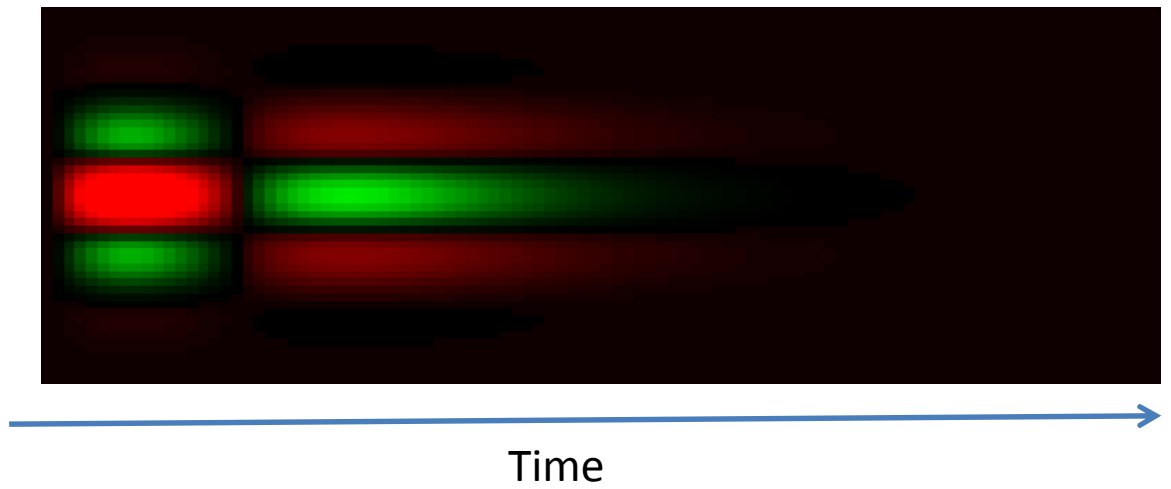
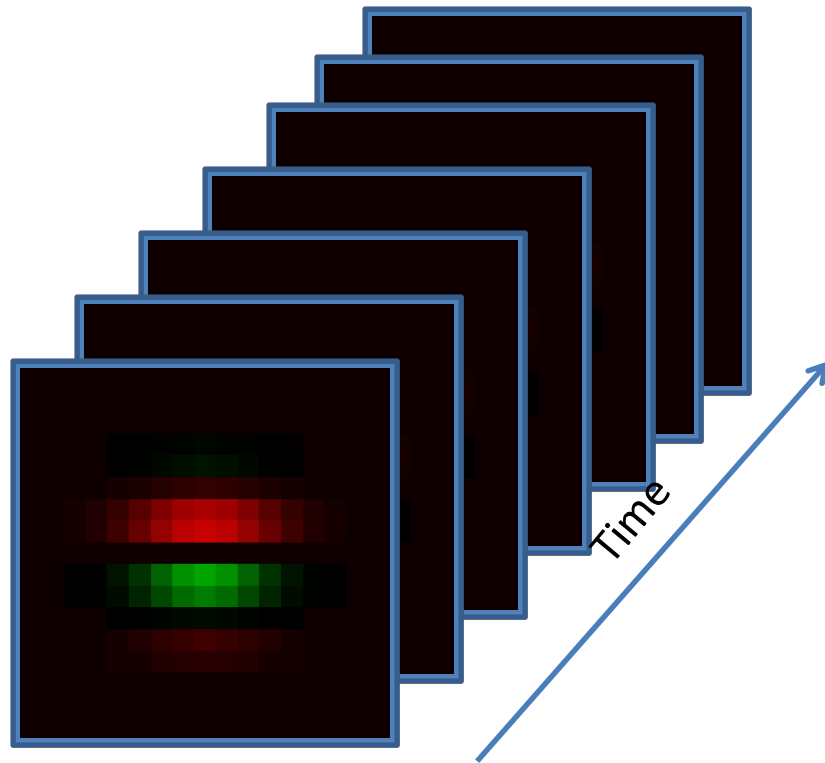
The 'Linear-Nonlinear' model:
Predicting sharpening of orientation tuning

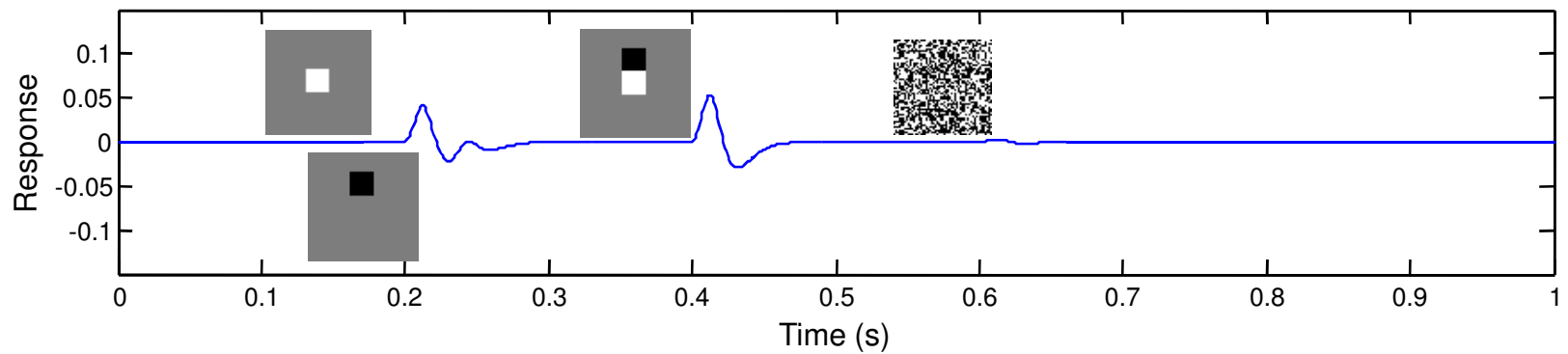
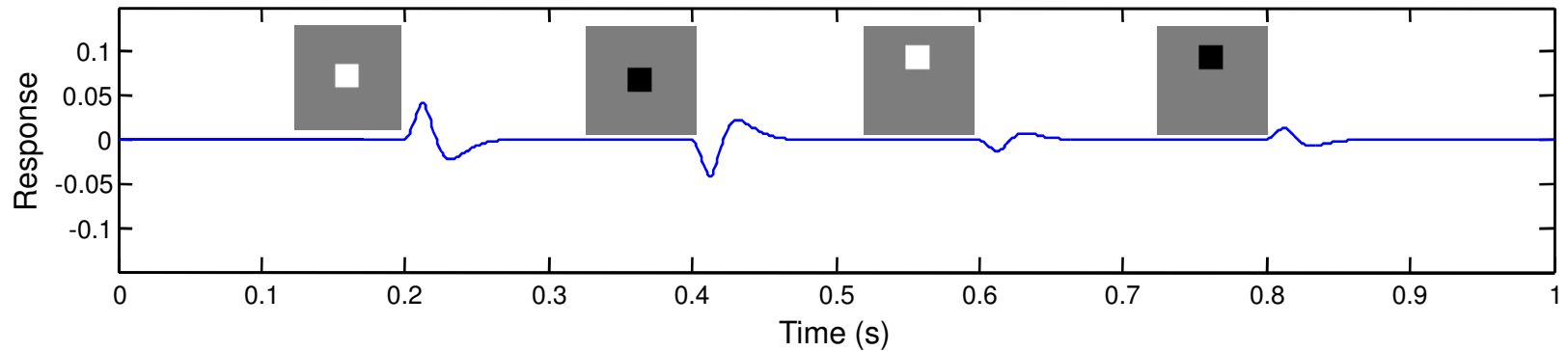
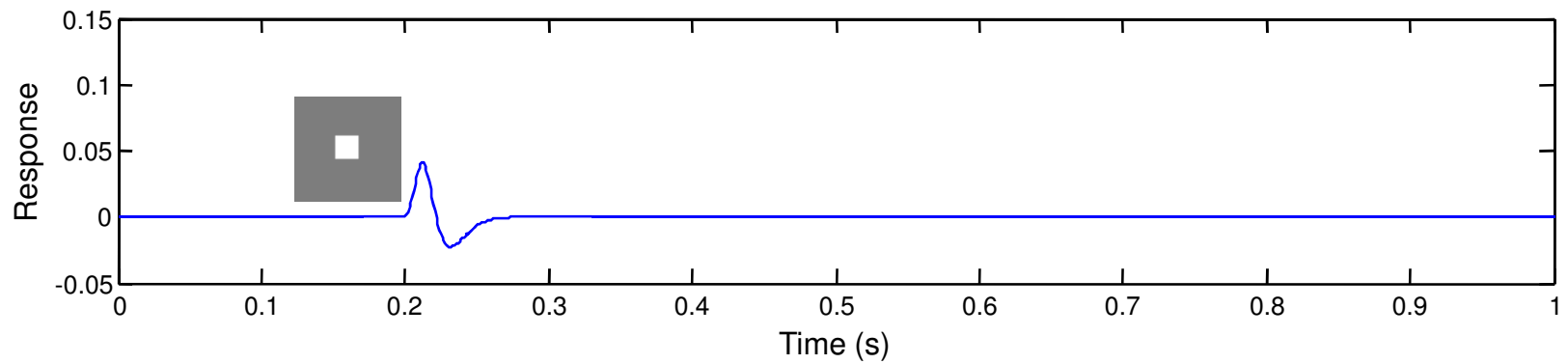
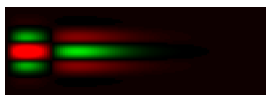


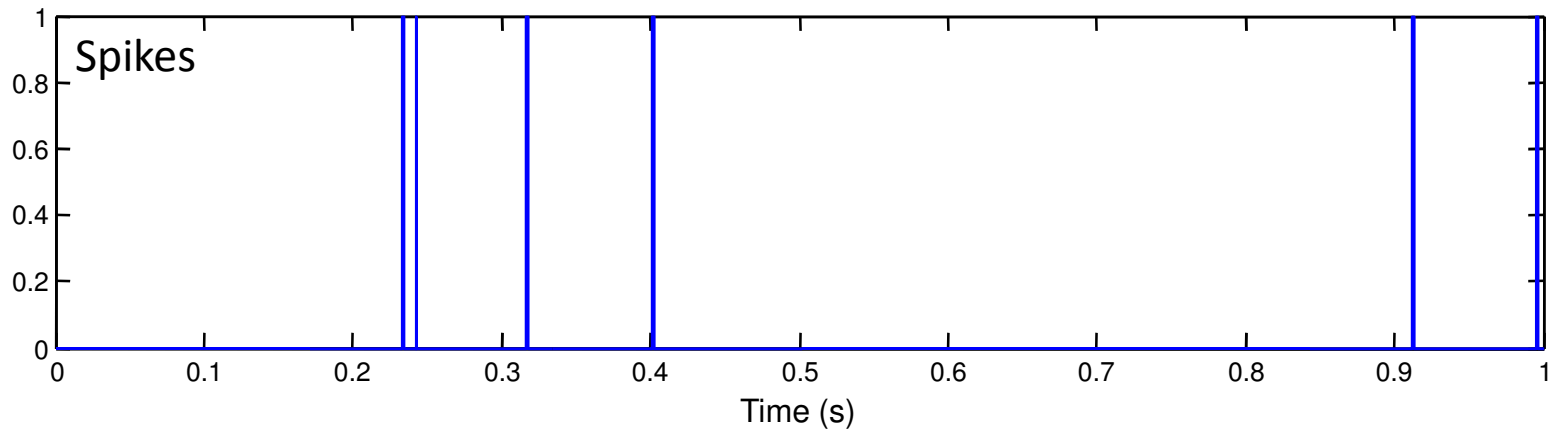
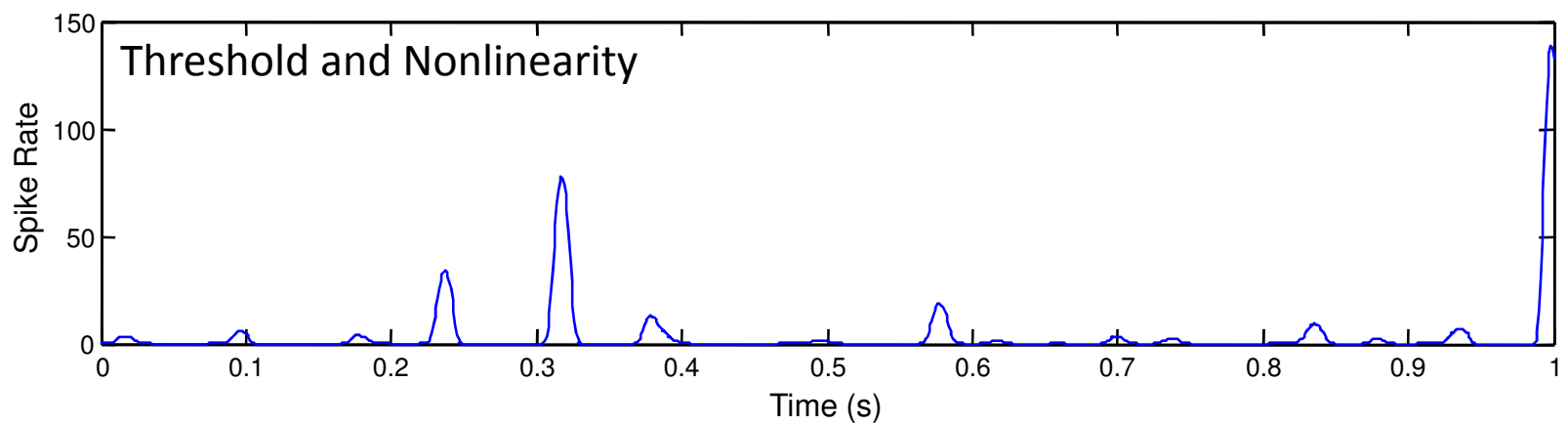
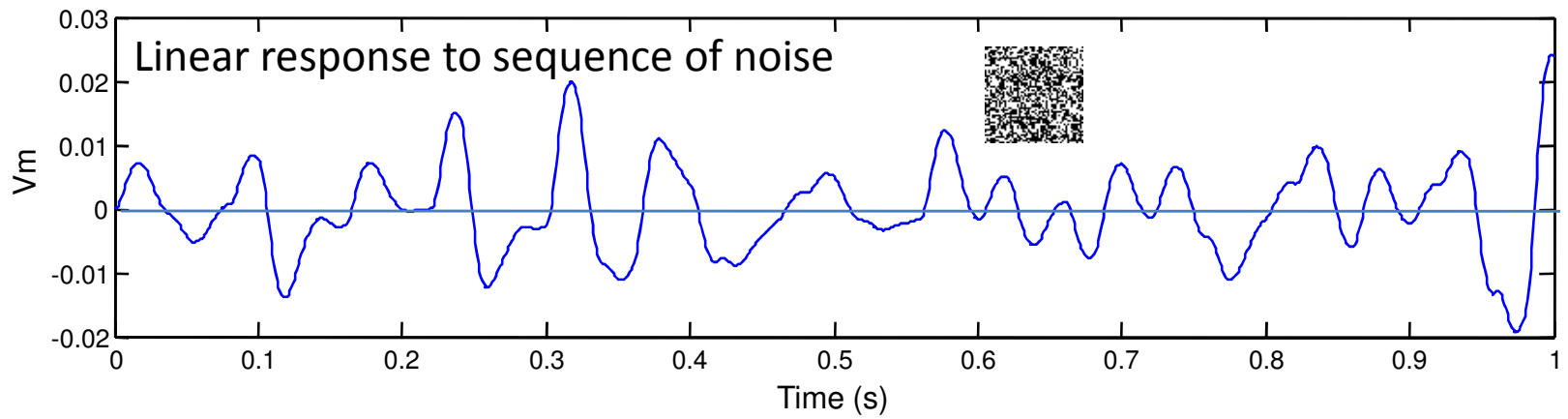
The 'Linear-Nonlinear' model:
Predicts Cross-Orientation Suppression
(though not very well)



Linear receptive field in space and time







‘Spike Triggered Average’ or ‘reverse correlation’:

For each spike, go back and find the sequence of stimuli that preceded it and average all of these sequences together. With enough spikes, the average sequence that created a spike will be the linear receptive field.

