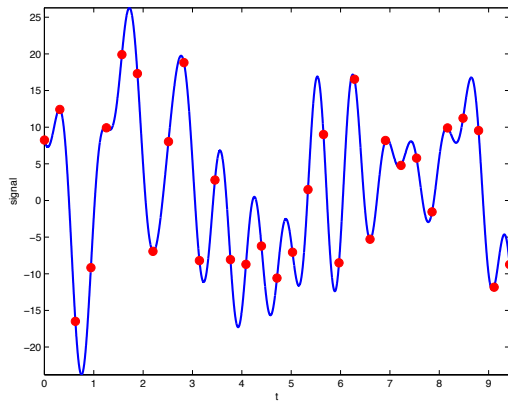


Compressed sensing in the eye (Kovacic et al)

Inspiration: Compressed Sensing



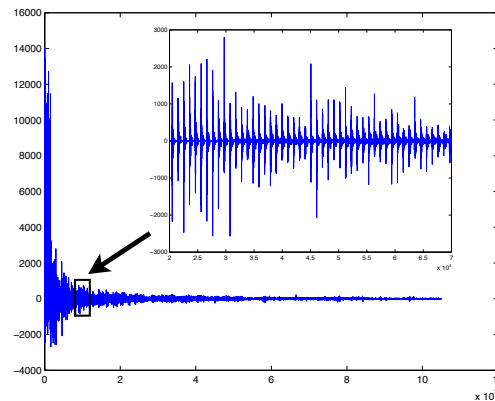
Shannon-Nyquist: Signal with bandwidth B must be sampled uniformly at rate $2B$ to be reconstructed

But, Experimental Fact: Natural Images Sparse in Fourier Domain (Field 94)



Megapixel Image

(Candes 08, Romberg 07)



Wavelet Coefficients

sampling rate $\ll 2B$



25K Reconstruction
sampled at 96,000

random pixels