1. (10 pts) Please prepare at short proposal (one page or less, single spaced) for your final project. A wide range of topics will be acceptable as long as they are related in some way to vision and visual perception. These short proposals will be the basis for our one-on-one meetings. Below are some current vision topics/areas and some of the players. These names should help you get into the literature. I can give you more information about any of these topics. You should not feel restricted to these topics.

Visual search and attention (J. Wolfe, A. Triesman, M. Eckstein, J. Palmer, W. Geisler, E. Kowler)

Attention effects in visual cortex (D. Heeger, J. Maunsell, J. Schall, E. DeYoe, J. Reynolds, E. Seidemann)

Bayesian cue combination (M. Landy, L. Maloney, M. Banks, D. Knill, A. Yuille)


Statistics of natural images (E. Simoncelli, B. Olshausen, D. Field, W. Geisler, A. Yuille)

FMRI in visual cortex (B. Wandell, D. Heeger, E. DeYoe, R. Tootell, N. Logothetis, A. Huk)

Multiple view interpolation in pattern recognition (T. Poggio, S. Ullman, M. Tarr)

3D representation (D. Kersten, D. Knill, J. Koenderink, M. Banks, J. Todd, L. Maloney)

Heading perception (W. Warren, M. Banks)

Motion perception (E. Adelson, G. Sperling, A. Watson, A. Derrington, A. Movhson, W. Newsome, E. Simoncelli, D. Heeger, A. Huk and L. Cormack)

Stereo depth perception (L. Cormack, C. Schor, C. Erkelens, B. Cumming, G. DeAngelis)

Color constancy/estimation (B. Wandell, L. Maloney, D. Brainard)

Image quality metrics (A. Watson, A. Ahumada, S. Daly, J. Lubin, A. Bovik)

Natural Tasks (D. Ballard, M. Hayhoe, M. Land)