NEURAL MECHANISMS OF COLOR VISION
Syllabus   Fall 2016

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1. Perception of color and brightness: Phenomenology --September 6
   Bomford (1995) Chapter 1 “Color in art”
   in Colour, Art and Science, ed. Lamb and Bourriau, Cambridge UP

2. Measuring brightness and color of lights and surfaces --September 13
   Riggs (1965) Chapter 1 “Light as a stimulus for vision” Vision and Visual Perception
   ed. Graham, pp 1-13, 17-19, Fig 1.28(p26), Table 1.5 (pp 36-37)
   https://en.wikipedia.org/wiki/CIE_1931_color_space
   http://www.michaelbach.de/ot/col_mix/index.html

3. Cone Photoreceptors--September 20
   {1}
   J Neurosci 25: 9669-79

4. Evolution of color vision in primates—September 27
   Imamoto, Shichida (2014) Cone visual pigments Biochim Biophys Acta 1837:664-673
   {2}

5. Color opponent neurons: LGN I--October 4
   DeValois (1960) Color vision mechanisms in the monkey J Gen Physiol 43 Supp. 115-128
   {3}

6. Color opponent neurons: LGN II--October 11
   {4}
7. Color-opponent neurons: Retina — Oct 18

   Solomon et al. (2005) Chromatic organization of ganglion cell receptive fields in the peripheral retina *J Neurosci* 25:4527-39
   {1}

8. Color coding in primary visual cortex I — Oct 25
   {2}


9. Color coding in primary visual cortex II — November 1
   {3}

   {4}

10. Color coding in primary visual cortex III — November 8

    {1}

NO SEMINAR NOVEMBER 15 --- SOCIETY FOR NEUROSCIENCE MEETING

11. Color coding in extra-striate cortex — November 22

    {2}

NO SEMINAR NOVEMBER 29

12. Color coding in extra-striate cortex — December 6
\{3\}


13. Color in human visual cortex--December 13
\{4\}


FINAL EXAM --- DECEMBER 20, 2016