

# Computational Neuroscience: Vision 2012

**Preliminary schedule as of March 11<sup>th</sup>, 2012**

## Tuesday, June 19

*PM: arrival of students*

## Wednesday, June 20

Early AM: Boynton, Horwitz, Treue Welcome & nuts and bolts

AM: Tony Movshon What vision (and the course) is all about

PM: EJ Chichilnisky Retina

## Thursday, June 21

AM: Eero Simoncelli Linear systems

PM: Greg Horwitz White noise analysis

## Friday, June 22

AM: Eero Simoncelli Optimal encoding & decoding

PM: David Heeger Contrast normalization

## Saturday, June 23

AM: Geoff Boynton Psychophysics & signal detection theory

PM: Bill Geisler Filter estimation from perceptual data

## Sunday, June 24

AM: Matteo Carandini V1

*PM: half-day off*

## Monday, June 25

AM: Geoff Boynton fMRI in the LGN and V1

PM: Niko Kriegeskorte fMRI of higher level vision

## Tuesday, June 26

AM: Ione Fine Retinal prosthesis

PM: Nicole Rust Population coding: Ventral stream

## Wednesday, June 27

AM: Adam Kohn      Population coding: Dorsal stream  
PM: Greg DeAngelis      MT: Motion and depth

## Thursday, June 28

AM: *day off*  
PM: *day off*

## Friday, June 29

AM: Marisa Carrasco      Psychophysics of attention  
PM: Stefan Treue      Physiology of attention I

## Saturday, June 30

AM: John Maunsell      Physiology of attention II  
PM: Marlene Cohen      Attention and population coding

## Sunday, July 1

AM: David Brainard      Color vision  
PM: Michael Shadlen      Decision making

## Tuesday, July 2

AM: Tirin Moore      Frontal influences on sensory information processing  
PM: *time for completion of course projects*

## Tuesday, July 3

AM: *students*      *project presentations and wrap-up discussion*  
PM: *departure*