

BME 671: Late Visual Processing**T-Th; 4:00-5:20; HNB 100**

Module	#	Date	Lecture Title	Lecturer
A: V1 Physiology				
A. V1 Physiology	1	1/12	Introduction to Mid and High-Level Vision	Bosco Tjan
A. V1 Physiology	2	1/14	Organization of the Visual Cortex	Judith Hirsch
A. V1 Physiology	3	1/19	Anatomy and Physiology of Cortical Area V1	Judith Hirsch
A. V1 Physiology	4	1/21	Direction and Orientation Selectivity	Judith Hirsch
A. V1 Physiology	5	1/26	Computational Models of Orientation Selectivity	Bartlett Mel
A. V1 Physiology	6	1/28	Open Questions in V1 Physiology	Huizhong Tao
B: Motion Processing				
B: Motion Processing	7	2/2	Cortical Connectivity and Dorsal Ventral Pathways	Norberto Grzywacz
B: Motion Processing	8	2/4	Motion Measurement and Interpretation	Gérard Medioni
Exam 1		2/9	In Class	
B: Motion Processing	9	2/11	Cortical Measurement of Motion	Norberto Grzywacz
B: Motion Processing	10	2/16	Perception of Motion: Psychophysics and Related Models	Zhong-Lin Lu
B: Motion Processing	11	2/18	Decision Making in the Cortical Motion Pathway	Norberto Grzywacz
B: Motion Processing	12	2/23	Bayesian Models of Visual Inference	Bosco Tjan
B: Motion Processing	13	2/25	Open Questions in the Perception of Motion	Zhong-Lin Lu
C: Shape Processing				
B: Shape Processing	14	3/2	Neurally Inspired Models of Contour Extraction	Bartlett Mel
B: Shape Processing	15	3/4	Computer Vision Models of Segmentation	Laurent Itti
B: Shape Processing	16	3/9	Perceptual Models of Segmentation	Norberto Grzywacz
B: Shape Processing	17	3/11	The Neural Basis of Object Recognition	Irving Biederman
Spring Break		3/16		
Spring Break		3/18		
Exam 2		3/23	In Class	
B: Shape Processing	18	3/25	The Neural Basis of Face Recognition	Irving Biederman
B: Shape Processing	19	3/30	Computer-Vision Models of Face Recognition	Gérard Medioni
B: Shape Processing	20	4/1	Open Questions: Reading	Bosco Tjan
USC Vision Symposium		4/6		
D: Visual Plasticity				
D: Visual Plasticity	21	4/8	Development of the Visual System	Huizhong Tao
D: Visual Plasticity	22	4/13	Models of Developmental Visual Plasticity	Norberto Grzywacz
D: Visual Plasticity	23	4/15	Visual Attention: Cortical Data and Models	Bartlett Mel
D: Visual Plasticity	24	4/20	Automatic Target Detection in Cluttered Scenes	Laurent Itti
D: Visual Plasticity	25	4/22	Visual Memory and Learning	Zhong-Lin Lu
D: Visual Plasticity	26	4/27	Open Question: Adjusting to a Retinal Prosthesis	James Weiland
Exam 3		4/29	In Class	