



2010 Organizers

Michi Matsukura
University of Iowa

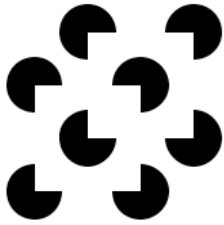
Melanie Palomares
University of South
Carolina

Brian Levinthal
Northwestern University

Timothy Vickery
Yale Univeristy

**18th Annual Conference
Object Perception, Attention, & Memory
November 18, 2010 - St. Louis, MO**





**Harvard Vision Sciences
Laboratory Salutes OPAM
on Its 18th Anniversary**

visionlab.harvard.edu

OPAM 2010 Talk Session
Mississippi Room, The Millenium Hotel St. Louis

8:20	Registration	
8:30	Opening Remarks	
8:40	Lead: Tim Vickery	Perception & Attention
8:45	Attarha & Moore	Testing capacity limitations of surface completion using the simultaneous-sequential method
9:00	Xu & Franconeri	Changes in ambiguous object structure are associated with shifts of attention
9:15	Cosman & Vecera	Perceptual grouping determines the locus of attentional selection
9:30	----- BREAK -----	
9:40	Lead: Michi Matsukura	Attention & Memory
9:45	Beck, Luck, & Hollingworth	Whatever you do, don't look at the... Exploring the parameters of an exclusionary attentional template
10:00	Moher & Egeth	Search and destroy: Observers use an inefficient explicit feature-based inhibition strategy in visual search
10:15	Leonard & Luck	Temporal dynamics of the allocation of spatial attention
10:30	Mack, Richler, Polyn, & Palmeri	Modeling effects of object naming on long-term object recognition memory
10:45	----- BREAK -----	
10:55	Lead: Melanie Palomares	Ecological Factors & Object Processing
11:00	Blacker & Curby	The attentional blink is attenuated for objects of expertise
11:15	Caddigan, Walther, Fei-Fei, & Beck	Perceptual differences between natural scene categories
11:30	Kim, Feldman, & Singh	Launching curved apparent motion: a motion interpolation study
11:45	Gao, New, & Scholl	Perceived intentionality controls attentional tracking
12:00	----- LUNCH BREAK/PUT-UP POSTERS (at around 12:45) -----	
1:00-2:00	Poster Session - Jefferson Room	
2:00	----- BREAK -----	
2:10	Lead: Brian Levinthal	Attention: Distribution
2:15	Jefferies & Yantis	Unitary vs. multiple attentional loci reflect space-based vs. object-based modes of attention
2:30	Vo & Wolfe	The role of incidental object fixations in repeated search: Looking AT versus looking FOR an object in a scene
2:45	Cain, Vul, Clark, & Mitroff	Human search strategies are informed by complex target distribution statistics
3:00	Lechak & Leber	Temporal oscillations in attention capture by moving stimuli as revealed by fMRI
3:15	----- BREAK -----	
3:25-4:30	Keynote Address: Dr. Cathleen Moore	The function of perceptual organization in the dynamic updating of visual representations
4:40	Closing Remarks	

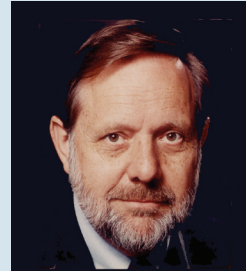


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November 18 – 21, 2010



Dr. Robert A. Bjork, UCLA
Keynote Address Speaker
"The Dynamics of Use and Disuse in Human Memory"

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200 South 4th Street, St. Louis, Missouri

Highlights of the Program

- SYMPOSIUM I: Practical Benefits of Bayesian Data Analysis
- SYMPOSIUM II: Using ERPs to Track Visuospatial Cognition As It Happens
- SYMPOSIUM III: Criteria, Confidence, and Recognition Memory
- SYMPOSIUM IV: Aesthetic Science: Psychophysical and Neuroscientific Approaches

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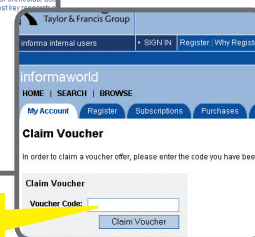
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OPAM 2010 Keynote Address

Mississippi Room
The Millennium Hotel St. Louis
3:25 p.m.



Dr. Cathleen Moore
Department of Psychology, The University of Iowa

The function of perceptual organization in the dynamic updating of visual representations

Processes of perceptual organization, such as those that result in phenomena like grouping, surface completion, and figure-ground segregation, have been a central focus in vision research since at least the 19th century. One reason for this focus—besides the appeal of the phenomenology—is that perceptual organization is considered foundational; it yields the building blocks out of which more complex visual representations are built. Research has focused on understanding the rules of organization, such as “similarly colored items tend to be grouped together”, “aligned edges tend to be represented as continuous” and “surrounded regions tend to be represented as figure rather than ground.” In this talk, I will consider the function of perceptual organization rather than the rules by which it works; what role does it play within the visual information processing stream. Specifically, I will suggest that perceptual organization processes serve to establish changeable information “channels” that guide the updating of existing visual representations on the basis of newly sampled visual information. While not directly conflicting with more traditional treatments of perceptual organization, this view seeks to emphasize the functional role that perceptual organization plays in dynamic visual processing.

OPAM 2010 POSTER SESSION 1:00-2:00 p.m. - Jefferson Room

Perception: Grouping

- (1) **Perceptual organization and gestalt formation: Emergent features in two-line stimuli**
Anna Stupina & James Pomerantz
- (2) **Mirror symmetry influences perception**
Joshua Edler & Patrick Monnier
- (3) **Contour and surface processing of texture-defined second-order stimuli in the human visual system**
Evelina Tapia, Bruno Breitmeyer & Jane Jacob

Perception-Scenes

- (4) **Canonical views of scenes depend on the shape of the space**
Krista A. Ehinger, Ken M. Haggerty, & Aude Oliva

Perception- Motion

- (5) **You spin me 'round: Do people curve when exiting a spiral maze?**
Sara Brimhall, Michael McBeath, Ellen Campana, Steve Holloway, & Vanessa Cottingham
- (6) **Semantic knowledge of element configuration influences motion perception in the Ternus display**
Mark Mills & Mike Dodd
- (7) **Local vs. global determinants of motion-induced blindness**
Erika Wells & Andrew Leber

Perception-Attention

- (8) **Hemifield modulation of approximate number judgments**
Heeyoung Choo & Steve Franconeri
- (9) **Sequential processing in graph comprehension**
Stacey Parrott, Maria Del Rosario Maita, David Uttal, & Steven Franconeri

Perception-Action

- (10) **Perception and response towards various toolbar placements in a computer graphical user interface**
Daniel Hor, Igor Dolgov, Jeremy Schwark, & William Graves
- (11) **Familiarity driven by manual interaction modulated processing efficiency for real-world objects**
Yusuke Yamani, Atsunori Ariga, & Jason McCarley
- (12) **The loci of positive and negative compatibility effect**
Kai-Ling Chang & Hsuan-Fu Chao

Attention-Perception

- (13) **The effect of feature-based attention on spatial resolution**
Jason Rajsic & Daryl Wilson

Attention: Object-Based Selection

- (14) **Attentional selection of complex objects**
Lauren Hecht & Shaun Vecera
- (15) **Object-based attention is modulated by object exposure duration**
Adam Greenberg, Elizabeth Cutrone, & Marlene Behrmann

Attention-Perceptual Load

- (16) **Selective distractor processing in high perceptual load**
Jihyun Suh & Yang Seok Cho
- (17) **Response terminated displays produce flanker effects despite high perceptual load**
Zachary Roper, Joshua Cosman, Toby Mordkoff, & Shaun Vecera

Attention-Motion

- (18) **Spatial updating during attentive tracking**
Hauke S. Meyerhoff, Markus Huff, Frank Papenmeier, Georg Jahn, & Stephan Schwan
- (19) **Multiple object selection and tracking are independent of shape memory**
Hyunyoung Park, Sarah Helseth, Sumeeth Jonathan, Priscilla Mok, George Alvarez, & Steven Franconeri
- (20) **Visual attention and the tenuous binding of “what” and “where”: Evidence from infants and adults**
Melissa M. Kibbe & H. Haroutioun Haladjian

Attention-Temporal

- (21) **Exogenous entrainment to visual stimulation in the attentional blink**
Atsunori Ariga & Alejandro Lleras
- (22) **Repetition blindness in picture: Absolute or relative activation strength?**
Ching-I Lin & Angela Ku-Yuan Tzeng
- (23) **Distractor-target similarity determines emotional information processing in RSVP**
Min Woo Kim & Yang Seok Cho

Attention-Search

- (24) **Hemispheric asymmetry of top-down influences and bottom-up effects in visual search with irrelevant singleton**
Kao DeWitt & Chikashi Michimata
- (25) **The relationship between regularities in target location and selective attention**
Takashi Kabata & Eriko Matsumoto
- (26) **Contextual cueing: Search or response facilitation?**
Steven Fiske & Thomas Sanocki
- (27) **Lack of agreement in identifying critical events (targets) in lifeguarding**
Lyndsey Lanagan-Leitzel

Attention-Search: Capture

- (28) **Defining the scope of singleton search**
Brandon Ashinoff, Charles Folk, & Howard Egeth
- (29) **Task set modulates working memory driven attentional capture**
Chun-yu Kuo & Hsuan-Fu Chao
- (30) **Enhanced change detection ability for object onsets in natural scenes**
Maria Donaldson & Naohide Yamamoto
- (31) **The role of saliency in real world at different time courses**
Chia-Jung Wu & Cheng-Ta Yang

Attention-Search: Capture: Emotion

- (32) **Effects of need-based stimuli on attentional capture and interference**
Ryan Kreager, Adam Biggs, Brad Gibson, Michael Villano, & Charles Crowell
- (33) **Semantic and affective salience: The role of meaning and preference in attention**
Adam Biggs, Ryan Kreager, Brad Gibson, Charles Crowell, & Michael Villano

Attention-Search: Memory

- (34) **Delay and interference effects for targets and distracters following visual search**
Karla Antonelli & Carrick Williams
- (35) **The causal influence of visual salience on gaze guidance during scene search and memorization**
Tim Smith

Attention-Search: Individual Differences

- (36) **Revealing individual differences in visual search: ADHD leads to seeing too little and anorexia nervosa leads to seeing too Much**
Kait Clark, Nancy L. Zucker, Karli K. Watson, & Stephen R. Mitroff

Attention: Cross Modality

- (37) **Entraining attention across auditory and visual modalities**
Jared Miller, Laura Carlson, & Devin McAuley
- (38) **Bilateral visual presentation revealed the contribution of audio-visual congruency in ventriloquism**
Shoko Kanaya & Kazuhiko Yokosawa

Cognitive Control

- (39) **The effect of strategic control on detecting changes**
Yi-Chun Liu & Cheng-Ta Yang
- (40) **The influence of inhibitory and approach motivational systems on the neural correlates of cognitive control**
Brandt Uitermarkt, Kira Bailey, & Robert West

Cognitive Control: Action

- (41) **Action video game experience's effects on visual attentional abilities**
William Graves, Igor Dolgov, Jeremy Schwark, & Daniel Hor
- (42) **Knockout! The effect of action video games on proactive cognitive control**
Kira Bailey & Robert West

Cognitive Control: Aging

- (43) **The effect of aging on dynamic adjustments of cognitive control**
Samantha Perry, Brandy Johnson, & Robert West

Attention & Visual Working Memory

- (44) **Neural mechanisms of cognitive control in working memory**
Benjamin Tamber-Rosenau & Steven Yantis
- (45) **Attention is necessary for maintaining feature bindings**
Eren Gunseli & Aysecan Boduroglu
- (46) **Effects of feature-based selection by retro-cues in visual working memory**
Oi Li & Jun Saiki

Attention & Memory: Method

- (47) **The influence of attention on the probability and fidelity of memory**
Michael Lawrence

Memory: Iconic/Visual Working Memory

- (48) **Task-specific assessment of visual memories**
Jane Jacob, Bruno Breitmeyer, & Evelina Tapia

Memory: Visual Working Memory

- (49) **Visual working memory for relations**
Pamela Glosson & John Hummel
- (50) **Why are we “blind” to change? The role of encoding in change blindness**
Xiaoyu Zhang, Jordan Martin, Naomi Stone, Geoffrey Dreher, Max Kahn, & Marcie Penner-Wilger

Memory: Spatial

- (51) **Describing spatial locations from perception and memory: The effect of spatial reference directions on reference object selection**
Xiaou Li, Laura Carlson, Weimin Mou, Mark Williams, & Jared Miller

Memory: Scene

- (52) **Association of neurotransmitter gene polymorphisms with rapid scene categorization**
Yuichiro Kikuno, Jun Saiki, & Tetsuro Matsunaga

Memory: Prospective

- (53) **Manipulating expectation of context at intention formation: Evidence of task and lure**
Adam Underwood & Melissa Guynn

Face-Perception

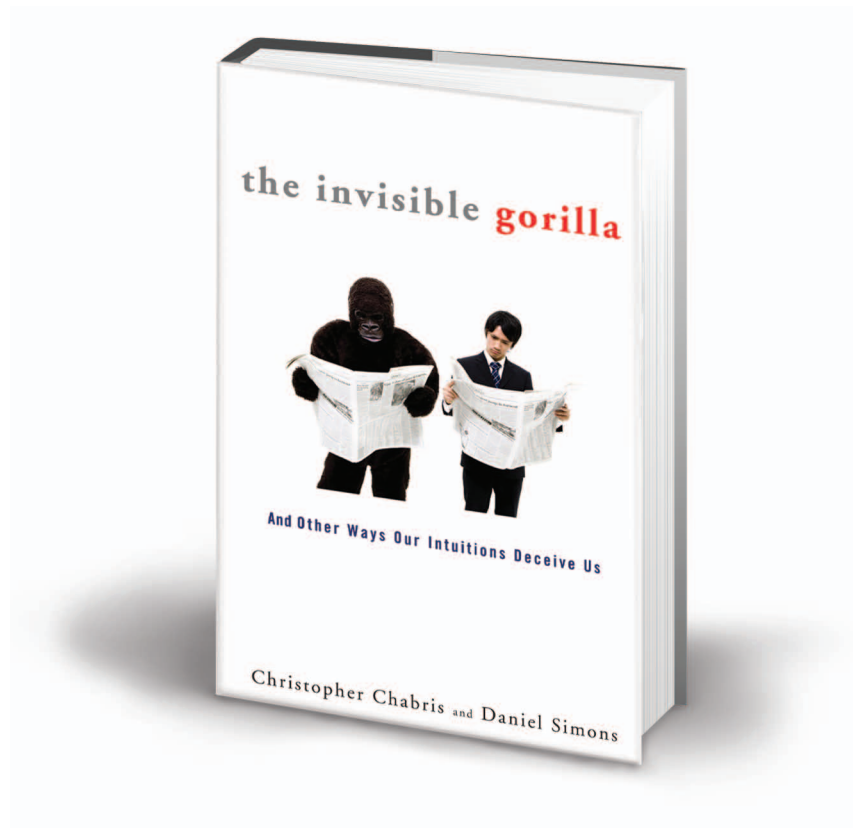
- (54) **Threat lowers awareness thresholds in anxiety**
Lital Ruderman & Dominique Lamy
- (55) **Enhanced visual detection of threat-related emotional body postures**
Ashley Blanchard & Maggie Shiffrar
- (56) **The effect of perceptual distinctiveness on affective judgment**
Yi-Cheng Tsai & Cheng-Ta Yang

Face-Attention

- (57) **Attentional disengagement from stimuli with learned emotional associations**
Jessica Collins & Kim Curby
- (58) **Race advantage in different levels of face searching**
Zhijie Cheng, Guomei Zhou, & Man Wang

Face-Memory

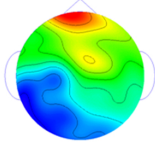
- (59) **Holding faces in working memory interferes with face discrimination but not object discrimination**
Laura Cacciamani & Mary Peterson
- (60) **Visual short-term memory is content specific**
Joshua John & Michael Mangini
- (61) **Object versus face perception causes different types of change blindness: Detecting versus localizing change**
Miko M. Wilford, Gary L. Wells, Bridget C. Baron, & Jacey L. Benal



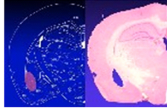


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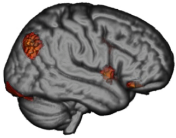
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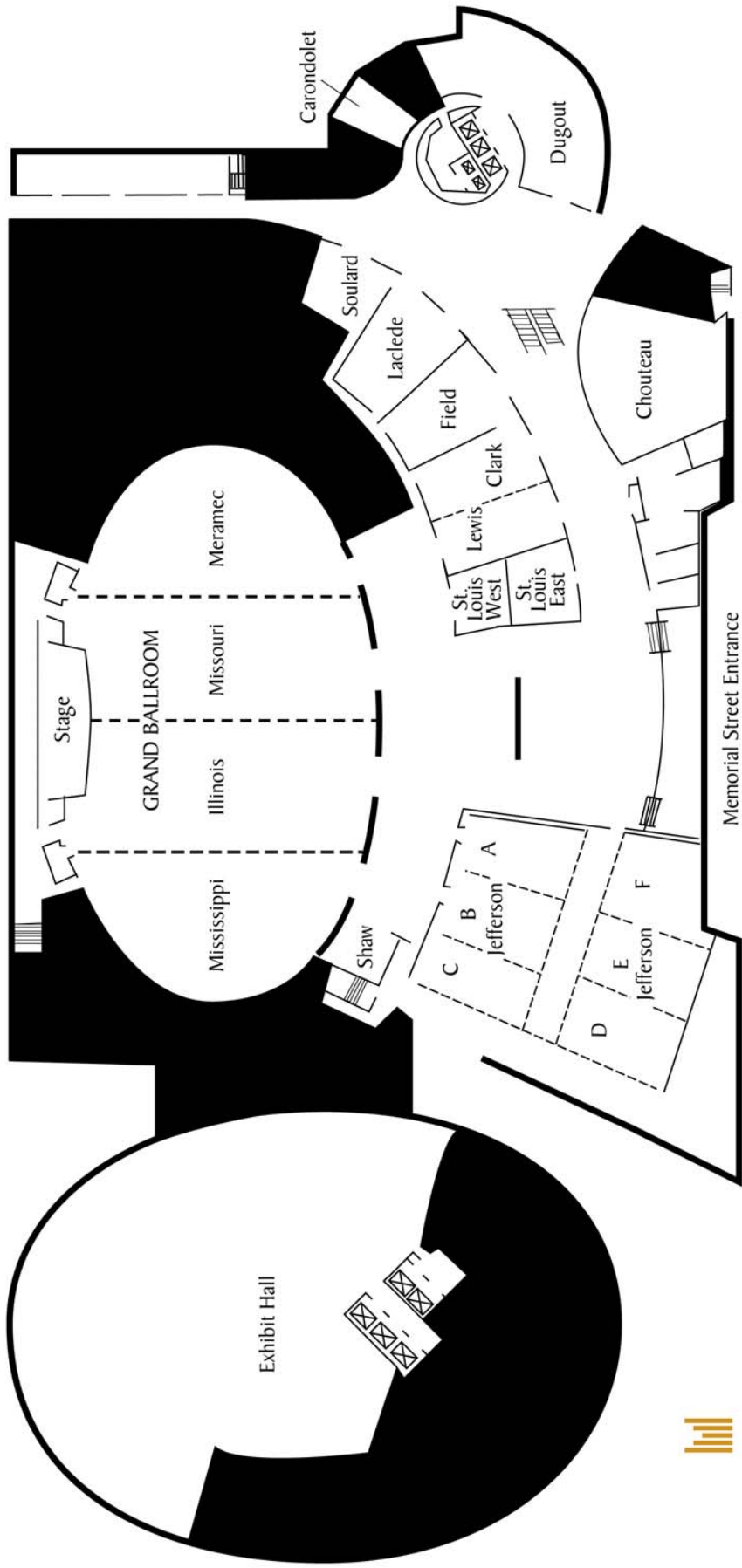
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