



New Orleans, LA  
November 15, 2018

# OPAM XXVI

## November 15, 2018

Join us in  
New Orleans  
to celebrate  
outstanding research  
by graduate and  
postdoctoral scientists  
at the annual meeting  
of Object Perception,  
Attention, and  
Memory!

2018 Organizers  
Caitlin Mullin  
Briana Kennedy  
Steve Walenchok  
Yelda Semizer

7:15 AM	Registration Opens
7:45 - 8:00	Opening Remarks
8:00 - 9:00	Talk Session 1
9:00 - 9:15	Break
9:15 - 10:15	Talk Session 2
10:15 - 10:30	Break
10:30 - 11:30	Poster Session 1
11:30 - 12:15	Lunch Break
12:15 - 1:15	Poster Session 2
1:15 - 1:30	Coffee Break
1:30 - 2:30	Talk session 3
2:30 - 2:45	Break
2:45 - 3:45	Talk session 4
3:45 - 4:00	Break
4:00 - 4:55	Keynote Address Wei Ji Ma
4:55 - 5:00	Closing Remarks

Talks

Posters

Keynote

Other



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## Talk Session 1

8:00 – 9:00 AM

- 8:00 am **Meaning guides attention during scene viewing even when it is irrelevant** | Candace E. Peacock, Taylor R. Hayes, & John M. Henderson
- 8:15 am **HAICT: A novel methodology for testing human-AI collaborations** | Makaela S. Nartker & Jeremy M. Wolfe
- 8:30 am **Seeing like a machine: Can humans “crack” adversarial images?** | Zhenglong Zhou & Chaz Firestone
- 8:45 am **Scene-context interference during multiple object search** | Karolina Joanna Krzys, Ellen O’Donoghue, & Monica Castelhana

## Talk Session 2

9:15 – 10:15 AM

- 9:15 am **Attentional capture alters feature perception** | Jiageng Chen, Andrew Leber, & Julie D. Golomb
- 9:30 am **Neural correlates of attentional capture driven by social reward** | Andy Jeesu Kim & Brian A. Anderson
- 9:45 am **The role of cognitive effort minimization in voluntary attention control** | Joseph R. Pauszek & Bradley S. Gibson
- 10:00 am **Effect of trial-invariant conjoint spatial-temporal knowledge of target appearance on voluntary spatial and temporal cueing effects** | Colin S. Flowers, Roman Palitsky, Mary A. Peterson, & Daniel Sullivan

## Talk Session 3

1:30 – 2:30 PM

- 1:30 pm **Behavioral evidence for a shared representation between visual working memory (VWM) and perception** | Chunyue Teng & Dwight J. Kravitz
- 1:45 pm **Not yet relevant is different from no longer relevant: The representational (dis)similarities of currently relevant, prospectively relevant, and dropped memories** | Katya Olmos-Solis, Anouk M. van Loon, & Christian N. L. Olivers
- 2:00 pm **Get the picture? Goodness of image organization contributes to image memorability** | Lore Goetschalckx, Pieter Moors, Steven Vanmarcke, & John Wagemans
- 2:15 pm **The massive impact of carryover effects: Behavior is dramatically and systematically shaped by prior trials** | Michelle R. Kramer, Patrick H. Cox, Stephen R. Mitroff, & Dwight J. Kravitz

## Talk Session 4

2:45 – 3:45 PM

- 2:45 pm **Updating perception and action across real-world viewpoint changes** | Andrew Clement & James R. Brockmole
- 3:00 pm **Learning a visuomotor rotation enhances mental rotation** | Jianfei Guo & Joo-Hyun Song
- 3:15 pm **Intuitive physics in multiple object tracking** | Jonas Sin-Heng Lau & Timothy F. Brady
- 3:30 pm **Seeing what’s possible: Disconnected visual ‘parts’ are confused for their potential ‘wholes’** | Chenxiao Guan & Chaz Firestone



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Poster Session 1

10:30 – 11:30 AM

- 1 **Multisensory integration: How the auditory and visual systems interact** | Jaimie Marie C. Jasina, & Katherine Moore
- 3 **Gender differences in individual alpha frequency within a working memory paradigm** | Tara R. Ghazi & Susan M. Courtney
- 5 **Examining the instability of the Necker cube** | Chris Koch
- 7 **Within-person variability and feedback affect the magnitude of the low prevalence effect in a photo identification task** | Dawn R. Weatherford, Jasmyne Thomas, & Devin M. Roberson
- 9 **Modulation of implicit bias by affective priming** | Hansol Rheem & D. Vaughn Becker
- 11 **Retroactive stunting of contextual cueing** | Lisa M. Heisterberg & Andrew B. Leber
- 13 **Grapheme-texture association accompanying grapheme-color synesthesia** | Kyuto Uno & Kazuhiko Yokosawa
- 15 **Perceptual organization in Parkinson's disease: A behavioral investigation of basal ganglia dysfunction** | Padmapriya Muralidharan & Anthony Cate
- 17 **Statistical regularities during object encoding distort long-term memory** | Paul S. Scotti, Yoolim Hong, Julie D. Golomb, & Andrew B. Leber
- 19 **As unique as a snowflake: Utilising statistical learning of rare, diagnostic features in a match-making task** | Bethany Growsns & Kristy A. Martire
- 21 **The road to long-term memory: Top-down attention is more effective than bottom-up attention for forming long-term memories** | Edyta Monika Sasin & Daryl Fougne
- 23 **Modeling of essential node coalitions: A membrane theory of attention** | Eben Wallace Daggett
- 25 **Flexible attentional prioritization of working memory representations** | Paige Pytel & Edward F. Ester
- 27 **Characterization of individual aging effects on white matter microstructural integrity and dynamic network connectivity underlying attention control: A combined EEG and DTI study** | Thomas Thierry Hinault, Travis Kroeker, Eda Incekara, Arnold Bakker, & Alain Dagher
- 29 **Contextually cued visual sequences of attention** | William Narhi, Brett Bahle, & Andrew Hollingworth
- 31 **Capacity of visual working memory during visual search** | Michael J. King & Brooke N. Macnamara
- 33 **Developing an OATS (Operationalized attentional task set): When do individuals refine their list of targets while performing a task?** | Ryan E. O'Donnell & Brad Wyble
- 35 **Investigating the benefit of scene context on the parafoveal processing of object** | Ryo Tachibana & Monica Castelhana
- 37 **A binding illusion of ambiguous color location between two locations** | Cristina R. Ceja & Steven L. Franconeri
- 39 **Electrophysiological correlates of searching through memory during hybrid visual search** | Lauren H. Williams, Iris Wiegand, Jeremy M. Wolfe, & Trafton Drew
- 41 **Attentional requirements modulate the effect of multiple targets during pop-out visual search** | James P. Wilmott & Joo-Hyun Song
- 43 **Distribution of spatial attention under varying task loads** | SuHyeon Jo, Eunhee Bae, & Sukwon Han



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Poster Session 1

10:30 – 11:30 AM

- 45 **Psychological scaling reveals a single parameter framework for visual working memory** | Mark W. Schurgin, John T. Wixted, & Timothy F. Brady
- 47 **The Wandering Eye: A tool to detect the onset and duration of mind wandering objectively and in real time** | Geoffrey William Harrison, Phillip Aucoin, Eden Shaul, Jordan Poppenk, & Daryl E. Wilson
- 49 **Finding odd one out scene? Use of deep features as a similarity measure** | Filip Dechterenko & Jiri Lukavsky
- 51 **Why seeing the floor matters: How the nearby ground plane effects distance perception** | Isabel Griffith, John Philbeck, Lindsay Houck, & Tom Malik
- 53 **Getting a clue: Professional and naïve searchers in an open terrain environment** | Rebecca A. Penn & Michael Hout
- 55 **Summarizing scatterplots: Impact of outliers on trend-line estimates** | Emre Oral & Aysecan Boduroglu
- 57 **Executive control of attention promotes resistance to distractor interference in visual search** | Melany W. Love, Jennifer Johnson, & David A. Washburn
- 59 **Using Hidden Markov Modelling to assess the cognitive states of procedural memory** | Michael Dubois, Amy S. Finn, Michael L. Mack, & Ian Mahoney
- 61 **When surface context does and does not affect saccades** | Nicole L. Jardine & Cathleen M. Moore
- 63 **Modeling Posner's validity effect reveals fewer guesses, but not enhanced precision** | Tomer Sahar, Dominique Lamy, & Tal Makovski
- 65 **The role of intertrial priming in hybrid search tasks** | Adam C. Vilanova-Goldstein & Carly Leonard
- 67 **The congruency sequence effect between two stimulus-based conflict tasks** | Yeeun Kim & Yang Seok Cho
- 69 **Gender differences in lethal force decision-making** | Mackenzie R. Riegenbach, Kara J. Blacker, Kyle A. Pettijohn, & Adam T. Biggs
- 71 **Correlation between impairment in emotional integration and discrimination of ambiguous visual-auditory stimuli and presence of autistic traits** | Kenton H. MacDowell & Steven L. Bressler
- 73 **The role of response mode in the congruency sequence effect** | Juyoung Park & Yang Seok Cho



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Poster Session 2

12:15 – 1:15 PM

- 2 **It's all a blur: Partial visual information triggers logarithmic decision times during object recognition** | Jessica Madrid, Rebecca Penn, Bryan White, Alexis Torres, & Michael C. Hout
- 4 **The role of right temporo-parietal junction in stimulus evaluation and perceptual decision-making** | Eunhee Bae, Suhyeon Jo, & Sukwon Han
- 6 **Knowing not: Similarities (and dissimilarities) between rejecting and remembering** | Daniella K. Cash & Megan H. Papesh
- 8 **The role of physical salience capture in emotion induced blindness** | Gus Baker, James Hoffman, & Teresa Turco
- 10 **Resting EEG in alpha and beta bands predicts individual differences in global/local processing** | Brent Pitchford & Karen M. Arnell
- 12 **Fixation duration and recognition: The peculiar case of posterior cortical atrophy patients** | Tal Nahari, Nitzan Guy, Noa Raz, Netta Levin, & Yoni Pertzov
- 14 **Neural correlates of attentional bias following aversive conditioning: Evidence for valence-independent mechanisms of priority** | Haena Kim, Namrata Nanavaty, Vani A. Mathur, & Brian A. Anderson
- 16 **A horizontal advantage for attention: Enhanced performance for targets located horizontally to an exogenous cue** | Pei-Ling Yang, John Clevenger, & Diane Beck
- 18 **Simultaneous prioritization of multiple working memory representations** | Ashley DiPuma & Edward F. Ester
- 20 **Perceptual interactions between face identity and emotional expression in depression** | Fabian A. Soto, Rochelle A. Stewart, & Christopher G. Beevers
- 22 **Depth preferences for 3D stimuli in category-selective visual areas** | Samoni Nag, Daniel Berman, & Julie D. Golomb
- 24 **Increasing item precision in visual working memory is insufficient to grant template status** | Blaire Dube & Naseem Al-Aidroos
- 26 **Selection history in context: Evidence for the role of reinforcement learning in biasing attention** | Mark K. Britton & Brian A. Anderson
- 28 **Effects of reading difficulty on different stages of mind wandering** | Meera Zukosky & Ranxiao Frances Wang
- 30 **Cross-modal entrainment in the alpha-band: Effects of 8-12 Hz rhythmic auditory stimulation on visual perception** | Emily C. Cunningham, Ranxiao F. Wang, & Diane M. Beck
- 32 **Parafoveal processing of inflectional morphology in Russian native speakers and English-L1/Russian-L2 learners** | Anastasia A. Stoops, Kiel Christianson, & Tania Ionin
- 34 **Memory for emotional faces depending on cognitive control demands and task-relevance** | Hyejin Jade Lee & Yang Seok Cho
- 36 **Imagination enhances helping intention: The role of helping efficacy** | Ryuji Oguni, Masanori Kobayashi, & Keiko Otake



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Poster Session 2

12:15 – 1:15 PM

- 38 **Effects of feature cues and target salience on eye movements in singleton search** | Tammy A. Nguyen & Carly J. Leonard
- 40 **±300ms is critical for keeping natural first person view in HMD** | Takuya Nakayama & Takako Yoshida
- 42 **Mapping the behavioral similarity space of targets and distractors in complex visual search** | Patrick H. Cox, Stephen R. Mitroff, & Dwight J. Kravitz
- 44 **Increasing attention to behaviorally relevant items facilitates incidental relational memory** | Hamid B. Turker & Khena M. Swallow
- 46 **Eye movements provide insight into the influence of semantic information on visual search** | Taylor D. Dague, Kenith Sobel, Savannah Bell, Christian Hopkins, & Amrita Puri
- 48 **Feature vs. identity: Directed forgetting in visual working memory** | Katherine C. Moen, Juan D. Guevara Pinto, Megan H. Papesch, & Melissa R. Beck
- 50 **Inattention blindness through multiple object tracking: The role of item novelty and attentional load** | Michaela Porubanova & Maria Kuvaldina
- 52 **Placeholders, ageing, and the spatial spread of attention** | Rebecca K. Lawrence, Mark Edwards, & Stephanie C. Goodhew
- 54 **Grouping and objecthood effects in the Ebbinghaus illusion** | Einat Rashal, Aline F. Cretenoud, & Michael H. Herzog
- 56 **Is it possible to identify an item without being able to localize it?** | Shekoofeh Hedayati Zafarghandi & Brad Wyble
- 58 **With or without the probability: The description-experience gap in visual search performance** | Hanshu Zhang & Joseph W. Houpt
- 60 **The binding of object features and locations in visual working memory** | Conne A. George & Michael S. Pratte
- 62 **What causes the dip in the rotation function for recognizing objects?** | Charles Josef Peasley & Eric Cooper
- 64 **Emphasizing the horizontal meridian eliminates the object-based attention shift direction anisotropy** | Adam J. Barnas & Adam S. Greenberg
- 66 **What type of eye movement can act as a clue to perceive live-ness? A dual-simultaneous eye-tracking study** | Haruka Nakamura & Takako Yoshida
- 68 **Training reduces categorical errors while drawing** | Larissa Arnold & Eric Cooper
- 70 **Association-change restores feature-based contextual cueing** | Sunghyun Kim & Melissa R. Beck
- 72 **Spotting rare targets makes your brain “blink” harder** | Jua D. Guevara Pinto & Megan H. Papesch
- 74 **Memory for distractors during hybrid search: The effect of target template specificity** | Stephanie M. Saltzmann, & Melissa R. Beck