



November 14, 2019, Montréal, Québec, CA

OPAM XXVII

November 14, 2019

Palais des Congrès de Montréal
 Room 524 A-C
 7:30 am to 5:00 pm

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

2019 Organizers
 Stephen Walenchok
 Yelda Semizer
 Deborah Cronin
 Patrick Cox

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 Melissa Le-Hoa Võ
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 **Divided attention reveals a processing bottleneck in visual object recognition** | Dina V. Popovkina, John Palmer, & Geoffrey M Boynton
- 8:15 am **Visual Imagination Shares Similar Capacity Limits to Visual Working Memory** | Cristina R. Ceja & Steven L. Franconeri
- 8:30 am **Two Distortions of Perceived Space Time** | Aditya Upadhyayula & Jonathan I. Flombaum
- 8:45 am **Retroactive interference on working memory consolidation is structural, not strategic** | Brandon J. Carlos, Lindsay A Santacroce, & Benjamin J. Tamber-Rosenau

Talk Session 2 9:15 – 10:15 AM

- 9:15 am **Developing an OATS (Operationalized Attentional Task Set): Assessing how attentional sets change with task experience** | Ryan E O'Donnell & Brad Wyble
- 9:30 am **Recognition-induced-memory-alteration (RIMA) in visual working memory** | April Emily Pereira & Keisuke Fukuda
- 9:45 am **Modulation of Visual Statistical Learning by Natural and Artificial Categories** | Leeland Loew Rogers, Su Hyoun Park, & Timothy J Vickery
- 10:00 am **Investigating the Effect of Basic-Level Predictions on Figure Assignment** | Rachel M. Skocypec & Mary A. Peterson

Talk Session 3 1:30 – 2:30 PM

- 1:30 pm **Speaking about seeing: How verbal descriptions encode visual complexity** | Zekun Sun & Chaz Firestone
- 1:45 pm **What are the characteristics of expert search behavior in volumetric medical images?** | Lauren H. Williams, Ann Carrigan, William F. Auffermann, Megan Mills, Anina N. Rich, & Trafton Drew
- 2:00 pm **Individual Differences in Working Memory Capacity Reveal the Non-Monotonicity of Visual Spatial Attention** | Sang Ho Lee & Mark Pitt
- 2:15 pm **Successful object recognition correlates with activity in category-specific and extensive category-invariant brain networks** | Max Levinson, Ella Podvalny, Steven H. Baete, & Biyu J. He

Talk Session 4 2:45 – 3:45 PM

- 2:45 pm **Scaffolded attention: How imagination creates object representations** | Joan Danielle K. Ongchoco & Brian Scholl
- 3:00 pm **Posteromedial cortex influences object representations in other regions during visuospatial working memory retrieval** | Erin Goddard, Erika W. Contini, & Muireann Irish
- 3:15 pm **Bridging Cognitive and Neuropsychological Measures** | Melissa Trevino, Todd S. Horowitz, Laura Germine, Yi Yi Lu, Grace Huang, & Xiaoshu Zhu
- 3:30 pm **Competition between similar visual working memory items underlies repulsion** | Paul S Scotti, Yoolim Hong, Andrew B. Leber, & Julie D Golomb



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Poster Session 1

10:30 – 11:30 AM

- 1 **An exploration of ability and personality trait variables predicting goal-directed attention in visual search** | Molly R. McKinney, Heather A. Hansen, Jessica L. Irons, & Andrew B. Leber
- 3 **Let's rock categorical search: How exemplar repetition during category learning and category variability influence search** | Kory Scherer & Arryn Robbins
- 5 **Not two, but three visual working memory representations simultaneously control attention** | Michael King & Brooke N. Macnamara
- 7 **Spatial demands after target search interfere with contextual cueing** | Lisa M. Heisterberg & Andrew B. Leber
- 9 **Individual differences during a music-related visual search paradigm: Evidence from eye movements** | Kinnera S. Maturi & Heather Sheridan
- 11 **Task demands increase priming from long-term memory in visual search** | Geoffrey W. Harrison, Michelle Blumberg, Jacob Wilde, Pelin Tan, & Daryl E. Wilson
- 13 **The boundary conditions of Subsequent Search Misses (SSMs) in proofreading: Evidence from eye movements** | Eliza Barach, Leah Gloskey, & Heather Sheridan
- 15 **The influence of object category and label acquisition on visual search performance** | Maxim Morozov
- 17 **Mechanisms Of N2PC, N2PB, P2PC/PD, revealed from target-distractor interactions in upper vs lower hemifields** | Marie-Eve Picard, Brandi Lee Drisdelle, & Pierre Jolicoeur
- 19 **The role of meaning in attentional guidance during free viewing of real-world scenes** | Candace E. Peacock, Taylor R. Hayes, & John M. Henderson
- 21 **Temporal attention capture by portions of unconsciously processed familiar objects** | Colin S. Flowers, Jordin L. Wilson, & Mary A. Peterson
- 23 **Context does not enhance memory-guided attentional capture** | Lindsay Plater, Maria Giammarco, Chris Fiacconi, & Naseem Al-Aidroos
- 25 **The effect of auditory alerts on lapses of sustained attention** | Anjum F. Shaikh, Ashley C. Steinkrauss, Erin M. O'Brien Powers, & Jefferey Moher
- 27 **"Spontaneous perspective taking" requires homunculean object recognition in an avatar** | Geoff G. Cole, Steven Samuel, & Madeline J. Eacott
- 29 **Association between cue lead time and template-for-rejection effect** | Tomoyuki Tanda & Jun Kawahara
- 31 **Enhancement of color working memory in grapheme-color synesthetes** | Lana Okubo, Kyuto Uno, & Kazuhiko Yokosawa
- 33 **Action effect induced by planning action** | Seohee Han, Eunhee Ji Eunhye Choe, Dogyun Kim, & Min-Shik Kim
- 35 **Leveraging "big data" to examine the relationship between priming and response inhibition** | Samoni Nag, Stephen R. Mitroff, & Dwight J. Kravitz
- 37 **Is reflexive attention deployed in a flat coordinate frame or at different depths?** | Kyrie H. Murawski, Bradley P. Wyble, & Ryan O'Donnell



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Poster Session 1 10:30 – 11:30 AM

- 39 **Variability in the content of mind wandering is associated with intrinsic connectivity within the default network** | Effie J. Pereira, Lauri Gurguryan, Signy Sheldon, & Jelena Ristic
- 41 **Using temporal order judgments and colour perception to dissociate inhibitory cueing effects** | Ralph S. Redden, Austin J. Hurst, & Raymond M. Klein
- 43 **Effect of set size on ensemble perception of numerical value** | Taylor D. Dague, Kassandra R. Lee, Kenith V. Sobel, Christian P. Hopkins, & Amrita M. Puri
- 45 **A vigilance-avoidance account of dual-stream emotion induced blindness** | Mark Edwards, Matthew Proud, & Stephanie C. Goodhew
- 47 **Comparing performance on a temporal attention task when using an intense vs isointense signal** | Colin R. McCormick, Ralph S. Redden, & Raymond M. Klein
- 49 **Semantic generalization of value-based attentional priority** | Laurent Grégoire & Brian A. Anderson
- 51 **Patterns of cognitive control and physiological change: Observing proactive and reactive control in heart rate and respiration** | Michelle A. Dollois, Mark J. Fenske, & Christopher M. Fiacconi
- 53 **No volitional control over distractor interference in visual working memory** | Blaire Dube, Alison Dodwell, & Naseem Al-Aidroos
- 55 **Saccadic eye movements displace visual working memory representations** | Xi Wang & Benjamin van Buren
- 57 **Visual working memory resetting** | Hyun Goo Park & Keisuke Fukuda
- 59 **Reevaluating the sensory recruitment model of visual working memory using crowding anisotropy** | Harun Yörük & Benjamin J. Tamber-Rosenau
- 61 **Cognitive flexibility in response-contingent task-switching** | Ki Bbum Lee & Min-Shik Kim
- 63 **Learning color-concept associations from co-occurrence statistics** | Melissa A. Schoenlein & Karen B. Schloss
- 65 **Modeling hemispheric asymmetry in categorical emotion perception** | Myeongjin Lee & Min-Shik Kim
- 67 **Does a relevant sound enhance the neural representation of a visual object?** | Hiu Mei Chow, Erinda Morina, & Vivian M. Ciaramitaro
- 69 **Intended body action enhances rubber hand illusion** | Ren Jiarong & Okubo Matia
- 71 **What is lost in prosopagnosia: Can a prosopagnosic distinguish sheep?** | Alexander R. Toftness & Eric E. Cooper
- 73 **The acquisition and retention of perceptual expertise** | Michaella Trites, Jose Barrios, Buyun Xu, James W. Tanaka, & Stuart W.S. MacDonald
- 75 **Sensitivity to luminance- and texture-defined stimuli from school-age to adulthood: A developmental perspective** | Margarita Miseros, Domenico Tullo, Jocelyn Faubert, & Armando Bertone
- 77 **Ensemble perception during multiple object tracking** | Reem Alzahabi & Matthew S. Cain
- 79 **Visual word recognition as a means of addressing top-down feedback** | Simon Kaplan & Dwight Kravitz
- 81 **The cause of the rotation function dip for recognizing objects** | Charles Josef Peasley & Eric Cooper
- 83 **Evidence for size-invariant polar representations of visual space** | Sami R. Yousif & Frank C. Keil



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Poster Session 2

12:15 – 1:15 PM

- 2 **Every search is awesome!: A pilot study using Lego to examine three-dimensional visual search** | Bryan Lee White, Hayward J. Godwin, Jessica Madrid, & Colin Scarince
- 4 **Learned oculomotor distractor avoidance in the face of strong target guidance: Both reactive and proactive inhibition** | Brad T. Stilwell & Shaun P. Vecera
- 6 **Do you remember these distractors? Exploring the factors that influence the relationship between incidental fixations and memory** | Mark E. Lavelle, David Alonso, Roy Luria, & Trafton Drew
- 8 **Recruiting from the shallow end of the pool: Cognitive performance and study compliance differ between participant pool subjects from the start to the end of an academic term** | Courtney Lee Porfido, Patrick H. Cox, Stephen H. Adamo, & Stephen R. Mitroff
- 10 **Expected task difficulty effects on visual search behavior during simple and real world search tasks** | Natalie A. Paquette & Joseph Schmidt
- 12 **Open the window: Passive search strategies lead to broader attentional distribution during single target and hybrid visual search** | Jessica Madrid & Michael C. Hout
- 14 **An electrophysiological investigation of intertrial priming in visual search** | Adam C. Vilanova-Goldstein & Carly J. Leonard
- 16 **The impact of experience-dependent attentional guidance on continuous feature reports** | William Narhi-Martinez, Jiageng Chen, & Julie Golomb
- 18 **Salient inter-target distraction can attenuate the attentional blink** | Lindsay A. Santacrose, Brandon J. Carlos, & Benjamin J. Tamber-Rosenau
- 20 **Probability & fidelity of encoding during the attentional blink** | Brett B. T. Feltmate, Ralph S. Redden, & Raymond M. Klein
- 22 **Motion can capture attention, but can it cue it? Nonsocial motion produces a load-resistant shift of attention** | Louisa A. Talipski, Stephanie C. Goodhew, & Mark Edwards
- 24 **Predicting sustained performance over a short time** | Kenji Yamauchi, Ken Kihara, & Junichiro Kawahara
- 26 **A Bayesian hierarchical diffusion model of flanker interference** | Honami Kobayashi, Hiroyuki Muto, Hiroshi Shimizu, & Hirokazu Ogawa
- 28 **The impact of olfactory cues on attention: The case of Stroop interference** | Jonathan K. Ham & Christopher Koch
- 30 **The Pantomime Effect: Physical interaction makes invisible surfaces visible** | Patrick Coelho Little & Chaz Firestone
- 32 **Modeling the influence of emphasis in a measure of cognitive workload** | Spencer Charles Castro, David Lee Strayer, & Andrew Heathcote
- 34 **Eye-specific repetition priming in binocular rivalry** | Eunhye Choe & Min-Shik Kim
- 36 **The contribution of temporal analysis of pupillometry to deciphering cognitive conflicts** | Ronen Hershman & Avishai Henik
- 38 **Evidence for norepinephrine modulating spatial attention** | Ema Shamasdin Bidiwala & Miranda Scolari
- 40 **The effect of the co-actor's group affiliation on the social inhibition of return effect** | Orit Nafcha, Aya Morshed-Sakran, Simone Shamay-Tsoory, & Shai Gabay



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- 42 **Flexibility in resizing attentional breadth: Asymmetrical versus symmetrical attentional contraction and expansion costs depends on context** | Stephanie C. Goodhew & Ann S. Plummer
- 44 **Arousal-biased competition explains reduced distraction by reward cues under threat** | Andy Jeesu Kim & Brian A. Anderson
- 46 **Old priorities die hard: Value-driven attentional priority resists devaluation** | Ming-Ray Liao & Brian A. Anderson
- 48 **Unconscious attentional contagion: Faster breakthrough into awareness for faces with dilated pupils** | Clara Colombatto & Brian Scholl
- 50 **Does shifting attention influence numerical processing?** | Andrew Clement, Alexandra Moffat, & Jay Pratt
- 52 **Multivariate decoding of visual working memory load from the human EEG signal** | William Thyer, Kirsten C. Adam, Edward Vogel, & Edward Awh
- 54 **Meaning in visual working memory: Object's meaning increases capacity as well as proactive interference** | Roy Shoval & Tal Makovski
- 56 **How are illusory objects represented in visual working memory?** | Eliot E.C. Ping, Lisa M. Heisterberg, Ayala S. Allon, & Andrew B. Leber
- 58 **Training leads to an increase in visual short-term memory of novel objects without development of holistic processing** | Amanda C. Killian
- 60 **Do physiological cues mediate the influence of emotion on memory predictions?** | Evan Edward Mitton, Michelle Dollois, & Christopher M. Fiacconi
- 62 **Improving facial recognition using variance in emotional expressions** | R. Chandler Krynen, Michael McBeath, & Jacob Price
- 64 **Configural processing and facial attractiveness** | Jia Lin & Guomei Zhou
- 66 **The spatial resolution of object discrimination across echolocation and touch** | Michael Ezeana, Caroline Dacus, David Whitney, Santani Teng, & Amrita Puri
- 68 **The influence of mood congruency of audiovisual information in films on subjective impression** | Xinyue Zhang & Michiko Asano
- 70 **Audiovisual integration capacity modulates as a function of illusory visual contours, visual display circumference, and sound type** | Jonathan M.P. Wilibiks, Antonina D.S. Pavilanis, & Dominic M. Rioux
- 72 **Does the Ideal Observer Model predict the slant perception of stereoblind people?** | Yang Pin, Chen Zhongting, & Jeffrey Allen Saunders
- 74 **Comparing confusions in humans and state-of-the-art deep convolutional neural networks** | Ling Ree Chong, John Clevenger, Dhruv Diddi, Zhiyuan Wang, & Min Jin Chong
- 76 **When it all falls down: Individual differences in physical prediction abilities** | Alex Mitko & Jason Fischer
- 78 **Position estimation illusions in visualized data: Underestimation, overestimation and perceptual pull** | Cindy Xiong, Cristina R. Ceja, Casimir J.H. Ludwig, & Steven Franconeri
- 80 **Contrast sensitivity as a function of dietary intake of lutein and zeaxanthin** | Steven R. Holloway & José E. Náñez, Sr.
- 82 **Insight into Objects' Function Biases Perception** | Dick Dubbelde & Sarah Shomstein