

# Curriculum Vitae: Yoni Pertzov

**Department of Psychology**  
**Hebrew University of Jerusalem**  
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## High Education

**2004-2010**                    **The Interdisciplinary Center for Neural Computation (ICNC). Hebrew University of Jerusalem, Jerusalem, Israel.**

- Ph.D. (November 2010). thesis: "Active vision: The role of eye movements in the perception of visual stimuli".  
Supervisors: Prof. Ehud Zohary and Dr. Galia Avidan.
- M.Sc. (2006). "Computation and Information Processing in the Brain". (*with honors*).

**2000-2004**                    **Faculty of Engineering, Ben-Gurion University, Beer Sheva, Israel**

- B.Sc. (2004) Communication Systems Engineering (*with honors*).

## Academic positions

- 2020-present                Associate Professor, Psychology Department, Hebrew University of Jerusalem, Israel.
- 2013-2020                 Senior lecturer, Psychology Department, Hebrew University of Jerusalem, Israel.
- 2010-2013                 Post-Doctoral research associate in the "Cognitive Neurology" group, Institute of Cognitive Neuroscience. University College London, London, UK.

## **Awards, fellowships and Grants**

- 2020-2025: Israel Science Foundation (ISF) grant. "The Missing Component of the Active Vision Loop: The Observer Factor". 1,250,000 NIS. Principal Investigator.
- 2018-2020: Joy Ventures Academic Grant: Eye to eye: Identification and remediation of social-communication deficits using eye movements". 80,000\$ for two years. Co-investigator with Dr Salomon Israel and Prof Hill Aviezer.
- 2018-2020: MAGNETON Incentive program by the Israel Innovation Authority "Combining eye movements and EEG to predict treatment success in major depressive disorder". 346,000 NIS per year to Pertzov's lab. Co-investigator with Elminda Ltd and Sheba Hospital.
- 2017-2019: China-Israel cooperative scientific research grant "Cognitive and Neural Underpinnings of Retaining Bindings in Working Memory". 507,000 NIS to Israeli side. Co-investigator (PI is Prof Deouell HUJI).
- 2017-2019: The National Institute for Psychobiology in Israel (NIPI) "Quantification and modulation of atypical gaze scanning of complex social scenes in individuals with anxiety disorder and autism symptoms". 25,000 \$ a year. Principal Investigator.
- 2017-2018: ELMinda Ltd service agreement. "Diagnosing traumatic brain injury using eye movements". 60,000 NIS. Principal Investigator.
- 2017: German-Israeli Foundation (GIF) young grant. "Accessing concealed memory traces of personally familiar faces via eye movements". 20,000 Euro. Principal Investigator.
- 2014-2019: Israel Science Foundation (ISF) grant. "Remembering what was where, from neural mechanisms to clinical implications". 1,360,000 NIS. Principal Investigator.
- 2014: Cermak Award for best abstract submission in the field of memory, International Neuropsychological Society (INS).
- 2014: Alon Fellowship, Israel Council for Higher Education.
- 2013: Economic and Social Research Council (ESRC) / National Institute for Health Research (NIHR) Dementia Programme Grant. "Seeing what they see: Compensating for cortical visual dysfunction in Alzheimer's disease". £2,168,619. Co-investigator
- 2013: Visiting Fellowship for Teaching Neuroethics. University of Pennsylvania.
- 2011: Guarantors of Brain travel award.
- 2010: Elsevier/Vision Research Travel Award for excellence in Vision Research.
- 2010: Golda Meir Fellow, Hebrew University.
- 2010: Aharon Katzir Student Travel Fellowship, Weizmann Institute of Science.
- 2009: The Computational Motor Control Workshop (CMCW), best poster award (500\$).
- 2007-2010: Extended Rector Scholarship for excellent PhD students.
- 2004-2009: A Scholarship from the Interdisciplinary Center for Neural Computation.
- 2004: Graduation, BSc in Communication Systems Engineering, with honors.

## **Research areas**

- Interactions between eye movements and high level cognition, such as deception and concealed information.
- Individual differences in visual exploration.
- Underlying mechanisms of visual working memory.
- Visual deficits and immediate forgetting in healthy individuals and patients with neurological disorders.

## **Teaching Experience**

- 2015-2017 Lecturer of “Eye movements and cognitive processes” course. Hebrew University, Jerusalem, Israel.
- 2014-present Lecturer of “Statistical thinking” course. Hebrew University, Jerusalem, Israel.
- 2013-2015 Lecturer of “Contemporary topics in neuroethics” course. Hebrew University, Jerusalem, Israel.
- 2013-2014 Lecturer of “The cognitive neuroscience toolkit” course. Hebrew University, Jerusalem, Israel.
- 2010 Lecturer of “Introduction to Programming in Matlab” course. Ben-Gurion University, Beer Sheva, Israel.
- 2008-2009 Lecturer of “Introduction to Programming, basics of C language” course. Department of Software engineering, The Jerusalem college of Engineering.

## **Miscellaneous**

- 2020-present: Member of the organizing committee of the Jerusalem Brain Community (JBC).
- 2017-2020: Member of the organizing committee of the Israeli Society for Cognitive Psychology (ISCOP).
- 2016 Reviewer for the Israeli National Institute for Testing and Evaluation.
- 2015 Steering committee of “science night” at the Hebrew U.
- 2014 Contributed to “Lama” exhibition.
- 2006-2007 Supervisor of final research project – “Face recognition using neural networks” in the Israel Arts and Science Academy (high school projects).

## **Ad hoc reviewer**

- Aging, Neuropsychology and Cognition; Attention Perception & Psychophysics; Brain; Behavior Research Methods; Neuropsychologia; Cerebral Cortex; Cerebral Cortex Communications; Cognition; Journal of Philosophical Transactions B; The Journal of Neuroscience; Journal of Vision; Journal of Experimental Psychology HPP; Journal of Experimental Psychology LMC; Journal of Experimental Psychology General ; Quarterly Journal of Experimental Psychology;

Journal of Neurophysiology; Neuropsychologia; Memory; Perception; Psychopharmacology; Psychonomic Bulletin & Review. Psychiatry Research; Psychophysiology

- United States – Israel Binational Science Foundation (BSF). German-Israeli Foundation for Scientific Research and Development (GIF). Israel Science Foundation (ISF). The National Institute for Psychobiology Israel (NIPI)

## **List of Publications**

**Last updated: 22.11.2021**

2021 U.S. Patent Application No. 62/333,362, "ACCESSING CONCEALED MEMORY TRACES OF PERSONALLY FAMILIAR OBJECTS VIA GAZE POSITION MEASUREMENTS". Co-inventor together with Gershon Ben Shakhar.

### **Accepted for publication in peer-review journals**

- JIFP** - Standardized Journal Impact Factor Percentile, based on SJR or ISI. Represents the standing of the journal within its field
- IF** - Two years impact factor according to ISI

1. Lancry-Dayan O, Nahari T, Ben-Shakhar G, **Pertzov Y.** (2021). Keep an eye on your belongings: Gaze dynamics toward familiar and unfamiliar objects. Journal of Experimental Psychology: Learning, Memory, and Cognition. IF 2.3; JIFP 93%.
2. Azulay H, Guy N, Shalev I, **Pertzov Y,** Israel S. (2021). Social evaluation under stress: Does acute stress affect social attributions and eye gaze?. Comprehensive Psychoneuroendocrinology
3. Lu K, Nicholas JM, **Pertzov Y,** Grogan J, Husain M, Pavisic IM, ... & Crutch SJ. (2021). Dissociable effects of APOE  $\epsilon$ 4 and  $\beta$ -amyloid pathology on visual working memory. Nature Aging.
4. Pavisic IM, Nicholas JM, **Pertzov Y,** O'Connor A, Liang Y, Collins JD, Lu K, Weston P, Ryan NS, Husain M, Fox NC, Crutch SJ (2021) Visual short-term memory impairments in presymptomatic familial Alzheimer's disease: A longitudinal observational study. Neuropsychologia. IF 3.0; JIFP 96%.
5. Lancry-Dayan, O, Gamer M, **Pertzov Y.** (2021) Search for the unknown: guidance of visual search in the absence of an active template. Psychological Science. IF 5.4; JIFP 94%.
6. Van der Cruyssen, I, Regnath, F, Ben-Shakhar, G, **Pertzov, Y,** Verschuere, B. (2021) Is a Picture Worth a Thousand Words? Congruency Between Encoding and Testing Improves Detection of Concealed Memories. Journal of Applied Research in Memory and Cognition. IF 2.4; JIFP 88%.
7. Yitzhak, N, **Pertzov, Y,** Aviezer H. (2021) The elusive link between eye-movement patterns and facial expression recognition Social and Personality Psychology Compass
8. Pavisic I, **Pertzov Y,** Nicholas J, O'Connor A, Lu K, Yong K, Husain M, Fox N, Crutch SJ (2021) Eye-tracking indices of impaired encoding of visual short-term memory in familial Alzheimer's disease Scientific Reports. IF 4.0; JIFP 94%.
9. Klein Selle N, Gamer M, **Pertzov Y.** (2021) Gaze-pattern similarity at encoding may interfere with future memory. Scientific Reports. IF 4.0; JIFP 94%.
10. Cohen-Dallal H, Soroker N, **Pertzov Y.** (2021) Working Memory in Unilateral Spatial Neglect: Evidence for Impaired Binding of Object Identity and Object Location. Journal of Cognitive Neuroscience. IF 3.1; JIFP 82%.

11. Guy N, Lancry-Dayana O, **Pertsov Y.** (2020) Not all fixations are created equal: The benefits of using ex-Gaussian modeling of fixation durations. Journal of Vision. IF 2.1; JIFP 82%.
12. Goldstein A, Rivlin I, Goldstein A, **Pertsov Y**, Hassin RR. (2020) Predictions from masked motion with and without obstacles. PLoS ONE. IF 2.7; JIFP 93%.
13. **Pertsov Y**, Krill D, Weiss N, Lesinger K, Avidan G. (2020) Rapid forgetting of faces in congenital prosopagnosia. Cortex IF 4.0; JIFP 93%.
14. Pavisic I, Suarez-Gonzalez A, **Pertsov Y.** (2020) Translating visual short-term memory binding tasks to clinical practice: From theory to practice. Frontiers in Neurology. IF 2.9; JIFP 72%.
15. Yitzhak N, **Pertsov Y**, Guy N, Aviezer H. Many Ways to See Your Feelings: Individual Differences in Fixation Distribution and Facial Emotion Recognition. Emotion. IF 3.2; JIFP 94%.
16. Sadeh T, **Pertsov Y.** (2020) Scale invariant characteristics of forgetting: towards a unifying account of hippocampal forgetting across short and long timescales. Journal of Cognitive Neuroscience. IF 3.1; JIFP 82%.
17. Guy N, Azulay H, Kardosh R, Weiss Y, Hassin RR, Israel S, **Pertsov Y.** (2019) A novel perceptual trait: gaze predilection for faces during visual exploration. Scientific Reports. IF 4.0; JIFP 94%.
18. Lancry-Dayana, O., Kupershmit G, **Pertsov Y.** (2019) Been There, Seen That, Done That: Modification of Visual Exploration across Repeated Exposures. Journal of Vision. IF 2.1; JIFP 82%.
19. de Best PB, Raz N, Guy N, Ben-Hur T, Dumoulin SO, **Pertsov Y**, Levin N. (2019) The role of population receptive fields' size in complex visual dysfunctions: A posterior cortical atrophy model. JAMA Neurology. IF 13.6; JIFP 98%.
20. Nahari T, Lancry-Dayana O, Ben-shakhar G, **Pertsov Y.** (2019) Detecting concealed familiarity using eye movements: the role of task demands. Cognitive Research: Principles and Implications (new journal, not in ISI).
21. Cohen-Dallal H, Isaac Fradkin, **Pertsov Y.** (2018) Are stronger memories forgotten more slowly? No evidence that memory strength influences the rate of forgetting. PLoS ONE. IF 2.8; JIFP 95%.
22. Krill D, Avidan G, **Pertsov Y.** (2018) Rapid forgetting of faces. Frontiers in Psychology. IF 2.3; JIFP 80%.
23. Lancry-Dayana, O., Nahari T, Ben-shakhar G., **Pertsov Y.** (2018) Do you know him? Gaze dynamics towards familiar faces on a concealed information test. Journal of Applied Research in Memory and Cognition. IF 2.4; JIFP 88%.
24. Gammer M, **Pertsov Y.** (2018) Detecting concealed knowledge from ocular responses. Peer review chapter in a book "Detecting Concealed Information and Deception: Verbal, Behavioral, and Biological Methods." By Elsevier
25. Koyluoglu O, **Pertsov Y**, Manohar S, Husain M, Fiete I. (2017) Fundamental bound on the persistence and capacity of short-term memory stored as graded persistent activity. eLife. IF 7.6; JIFP 99%.
26. Manohar S, **Pertsov Y (equal contribution)**, Husain M. (2017) Short-term memory for spatial, sequential and duration information. Current Opinion in Behavioral Sciences. IF 4.0; JIFP 95%.
27. Liang Y & **Pertsov Y**, Nicholas JN, Henley S, Crutch S, Woodward F, Leung K, Husain M. (2017) Short-term memory binding deficits in Alzheimer's disease Reply to Parra's commentary. Cortex. IF 4.9; JIFP 95%.
28. **Pertsov Y**, Manohar S, Husain M. (2017) Rapid Forgetting Results From Competition Over Time Between Items in Visual Working Memory. Journal of Experimental Psychology: Learning, Memory, and Cognition. IF 2.3; JIFP 93%.
29. Liang Y & **Pertsov Y (equal contribution)**, Nicholas JN, Henley S, Crutch S, Woodward F, Leung K, Fox NC, Husain M. (2016) Visual short-term memory binding deficit in familial Alzheimer's disease. Cortex. IF 4.3; JIFP 93%.

30. Seidel Malkinson T, **Pertsov Y**, Zohary E. (2016) Turning Symbolic: The representation of motion direction in working memory. Frontiers in Psychology. IF 2.1; JIFP 71%.
31. Makovski T, **Pertsov Y** (2015) Attention and memory protection: Interactions between retrospective attention cueing and interference. Q J Exp Psychol. IF 2.3; JIFP 86%.
32. Shakespeare T, Yong K, **Pertsov Y**, Nicholas J, Crutch S. (2015) Reduced modulation of scan-paths in response to task demands in Posterior Cortical Atrophy. Neuropsychologia. IF 3.0; JIFP 96%.
33. **Pertsov Y**, Haider M, Liang Y, Husain M. (2015) Effects of healthy ageing on precision and binding in visual working memory. Psychology and Aging. IF 2.7; JIP 93%.
34. Pearson B, Raskevicius J, Bays PM, **Pertsov Y**, Husain M. (2014). Working memory retrieval as a decision process. Journal of Vision. IF 2.4; JIFP 90%.
35. **Pertsov Y**, Husain M. (2014). The privileged role of location in visual working memory. Attention Perception & Psychophysics. IF 2.2; JIFP 77%.
36. Gabay S & **Pertsov Y (equal contribution)**, Noga Cohen, Avidan G, Henik A. (2013). Remapping of the Environment Without Corollary Discharges: Evidence From Scene Based IOR. Journal of Vision. IF 2.7; JIFP 91%.
37. **Pertsov Y**, Miller TD, Gorgoraptis N, Schott JM, Butler C, Husain M. (2013). Binding deficits in memory following medial temporal lobe damage in patients with voltage-gated potassium channel complex antibody-associated limbic encephalitis. Brain. IF 10.2; JIFP 100%.
38. **Pertsov Y**, Bays PM, Joseph S, Husain M. (2013) Rapid forgetting prevented by retrospective attention cues. Journal of Experimental Psychology: Human Perception and Psychophysics. IF 3.1; JIFP 95%.
39. **Pertsov Y**, Dong MY, Peich MC, Husain M. (2012) Forgetting what was where: the fragility of object-location binding. PLoS ONE. IF 3.7; JIFP 97%.
40. Porat Y, **Pertsov Y**, Zohary E. (2011) Viewed actions are mapped in retinotopic coordinates in the human visual pathways. Journal of Vision. IF 3.7; JIFP 92%.
41. **Pertsov Y**, Avidan G, Zohary E. (2011) Multiple reference frames for saccadic planning in the human parietal cortex. Journal Of Neuroscience. IF 7.3; JIFP 94%.
42. Gabay S, **Pertsov Y**, Henik A. (2011) Orienting of Attention, Pupil Size and the norepinephrine System. Attention Perception & Psychophysics. IF 2.0; JIFP 74%.
43. **Pertsov Y**, Zohary E, Avidan G. (2010) Rapid formation of spatiotopic representations as revealed by inhibition of return. Journal Of Neuroscience. IF 7.3; JIFP 94%.
44. McKyton A, **Pertsov Y**, & Zohary E. (2009) Pattern matching is assessed in retinotopic coordinates. Journal of Vision. IF 3.2; JIFP 88%.
45. **Pertsov Y**, Zohary E, Avidan G. (2009) Implicitly perceived objects attract gaze during later free viewing. Journal of Vision. IF 3.2; JIFP 88%.
46. **Pertsov Y**, Avidan G, Zohary E. (2009) Accumulation of visual information across multiple fixations. Journal of Vision. IF 3.2; JIFP 88%.