**Curriculum Vitae: Yoni Pertzov**

**Department of Psychology**

**Hebrew University of Jerusalem**yoni.[pertzov@mail.huji.ac.il](mailto:pertzov@mail.huji.ac.il)

**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 Co](https://publons.com/journal/6986/aging-neuropsychology-and-cognition)gnition; Attention, Perception & Psychophysics; Brain; 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](https://publons.com/journal/22459/psychonomic-bulletin-review).  Psychiatry Research
* United Sates – 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: 25.10.20**

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2020 U.S. Patent Application No. 62/333,362, "ACCESSING CONCEALED MEMORY TRACES OF PERSONALLY FAMILIAR OBJECTS VIA GAZE POSITION MEASURMENTS". 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, Gamer M, **Pertzov Y.** (Accepted) Search for the unknown: guidance of visual search in the absence of an active template. Psychological Science. IF 5.4; JIFP 94%.
2. Cohen-Dallal H, Soroker N, **Pertzov Y.** (2020) [Working Memory in Unilateral Spatial Neglect: Evidence for Impaired Binding of Object Identity and Object Location](javascript:void(0)). Journal of Cognitive Neuroscience. IF 3.1; JIFP 82%.
3. Guy N, Lancry-Dayan O, **Pertzov Y.** (2020) [Not all fixations are created equal: The benefits of using ex-Gaussian modeling of fixation durations](javascript:void(0)). Journal of Vision. IF 2.1; JIFP 82%.
4. Goldstein A, Rivlin I, Goldstein A, **Pertzov Y**, Hassin RR. (2020) Predictions from masked motion with and without obstacles. PLoS ONE.IF 2.7; JIFP 93%.
5. **Pertzov Y,** Krill D, Weiss N, Lesinger K, Avidan G. (2020) Rapid forgetting of faces in congenital prosopagnosia. Cortex IF 4.0; JIFP 93%.
6. Pavisic I, Suarez-Gonzalez A, **Pertzov Y.** (2020) Translating visual short-term memory binding tasks to clinical practice: From theory to practice. Frontiers in Neurology. IF 2.9; JIFP 72%.
7. Yitzhak N, **Pertzov 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%.
8. Sadeh T, **Pertzov 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%.
9. Guy N, Azulay H, Kardosh R, Weiss Y, Hassin RR, Israel S, **Pertzov Y.** (2019) A novel perceptual trait: gaze predilection for faces during visual exploration. Scientific Reports. IF 4.0; JIFP 94%.
10. Lancry-Dayan, O., Kupershmit G, **Pertzov Y.** (2019) Been There, Seen That, Done That: Modification of Visual Exploration across Repeated Exposures. Journal of Vision. IF 2.1; JIFP 82%.
11. de Best PB, Raz N, Guy N, Ben-Hur T, Dumoulin SO, **Pertzov 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%.
12. Nahari T, Lancry-Dayan O, Ben-shakhar G, **Pertzov Y.** (2019) Detecting concealed familiarity using eye movements: the role of task demands. Cognitive Research: Principles and Implications (new journal, not in ISI).
13. Cohen-Dallal H, Isaac Fradkin, **Pertzov Y**. (2018) [Are stronger memories forgotten more slowly? No evidence that memory strength influences the rate of forgetting](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0200292). PLoS ONE.IF 2.8; JIFP 95%.
14. Krill D, Avidan G, **Pertzov Y**. (2018) Rapid forgetting of faces. Frontiers in Psychology. IF 2.3; JIFP 80%.
15. Lancry-Dayan, O., Nahari T, Ben-shakhar G., **Pertzov 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%.
16. Gammer M, **Pertzov Y**. (2018) Detecting concealed knowledge from ocular responses. Peer reviewe chapter in a book “Detecting Concealed Information and Deception: Verbal, Behavioral, and Biological Methods.” By Elsevier
17. Koyluoglu O, **Pertzov 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%.
18. Manohar S, **Pertzov Y (equal contribution),** Husain M. (2017) [Short-term memory for spatial, sequential and duration information](https://www.researchgate.net/publication/317510146_Short-term_memory_for_spatial_sequential_and_duration_information?_iepl%5BviewId%5D=LPRzG7WhP7dSGd0VfxX0D9bE&_iepl%5BprofilePublicationItemVariant%5D=default&_iepl%5Bcontexts%5D%5B0%5D=prfpi&_iepl%5BtargetEntityId%5D=PB%3A317510146&_iepl%5BinteractionType%5D=publicationTitle). Current Opinion in Behavioral Sciences. IF 4.0; JIFP 95%.
19. Liang Y & **Pertzov 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%.
20. **Pertzov 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%.
21. Liang Y & **Pertzov 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%.
22. Seidel Malkinson T, **Pertzov Y**, Zohary E. (2016) Turning Symbolic: The representation of motion direction in working memory. Frontiers in Psychology. IF 2.1; JIFP 71%.
23. Makovski T, **Pertzov Y** (2015) [Attention and memory protection: Interactions between retrospective attention cueing and interference.](http://www.ncbi.nlm.nih.gov/pubmed/25980784) Q J Exp Psychol. IF 2.3; JIFP 86%.
24. Shakespeare T, Yong K, **Pertzov 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%.
25. **Pertzov 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%.
26. Pearson B, Raskevicius J, Bays PM , **Pertzov Y**, Husain M. (2014). Working memory retrieval as a decision process. Journal of Vision. IF 2.4; JIFP 90%.
27. **Pertzov Y**, Husain M. (2014). The privileged role of location in visual working memory. Attention Perception & Psychophysics. IF 2.2; JIFP 77%.
28. Gabay S & **Pertzov 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%.
29. **Pertzov 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%.
30. **Pertzov 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%.
31. **Pertzov 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%.
32. Porat Y, **Pertzov Y**, Zohary E. (2011) Viewed actions are mapped in retinotopic coordinates in the human visual pathways. Journal of Vision. IF 3.7; JIFP 92%.
33. **Pertzov 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%.
34. Gabay S, **Pertzov Y**, Henik A. (2011) Orienting of Attention, Pupil Size and the norepinephrine System. Attention Perception & Psychophysics. IF 2.0; JIFP 74%.
35. **Pertzov 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%.
36. McKyton A, **Pertzov Y**, & Zohary E. (2009) Pattern matching is assessed in retinotopic coordinates. Journal of Vision. IF 3.2; JIFP 88%.
37. **Pertzov Y**, Zohary E, Avidan G. (2009) Implicitly perceived objects attract gaze during later free viewing. Journal of Vision. IF 3.2; JIFP 88%.
38. **Pertzov Y**, Avidan G, Zohary E. (2009) Accumulation of visual information across multiple fixations. Journal of Vision. IF 3.2; JIFP 88%.