# *CURRICULUM VITAE*


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| NAME | **Yulia Lerner**, **PhD** |
| HOSPITAL/DEPT | Sagol Brain Institute<br>Tel Aviv Sourasky Medical Center, Israel |
| E-MAIL | yulia.lerner@gmail.com |


## A. EDUCATION

| PERIOD OF STUDY (DATES) | | |
|---|---|---|
| 1989-1994 | Baku State University,<br>Baku, Azerbaijan | Mathematics, M. Sc |
| 1998-2004 | Weizmann Institute of Science,<br>Rehovot, Israel | Neurobiology , Ph. D |
| Date awarded: | 2004 | |
| Title of Doctoral Dissertation | "Holistic versus part-based representation in the human brain: fMRI approach." | |
| Name of Supervisor | Prof. Rafael Malach | |

## B. FURTHER STUDIES

| PERIOD OF STUDY (DATES) | | |
|---|---|---|
| 2004 – 2006 | Weizmann Institute of Science &<br>Brain Imaging Center, TASMC | Neuroimaging, Neuromodeling,<br>Research Fellow |
| 2007-2008 | The Center for Neural Science,<br>New York University, USA | Neuroimaging, Research Fellow |
| 2009-2011 | Princeton University, USA | Cognitive Neuroscience, Neuroimaging,<br>Research Associate |

## C. ACADEMIC AND PROFESSIONAL EXPERIENCE

### ACADEMIC EXPERIENCE

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|---|---|
| 2000-2006 | Department of Science Teaching, Weizmann Institute of Science<br>Scientific workshops for high school students: "Human Brain and vision".<br>Organizer and mentor |
| 2000-2006 | Weizmann Institute of Science<br>International and Israel Scientific Summer Camps<br>Scientific Instructor |
| 2004-2005 | Tel Aviv Sourasky Medical Center<br>BrainVoyager Software Package for undergraduate and graduate students<br>Instructor |
| 2008 | New York University<br>Mentoring undergraduate (pre-med) students |
| 2009 | Princeton University<br>Mentoring graduate students in the lab |
| 2012 | University of Amsterdam, Netherlands<br>The 2nd CCCT Summer School<br>Invited lecturer |
| 2007-Present | Tel Aviv Sourasky Medical Center<br>fMRI data analyses for graduate students (Tel Aviv Univ.)<br>Lecturer |

## PROFESSIONAL EXPERIENCE

### Positions and Employment

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|---|---|
| 2016 – Present | Functional Brain Mapping Unit (Sagol Brain Institute)<br>Tel-Aviv Sourasky Medical Center<br>Senior Researcher |
| 2011-2016 | Neurology Department & Functional Brain Mapping Unit,<br>Tel-Aviv Sourasky Medical Center<br>Senior Researcher |
| 2014-Present | Tel Aviv University<br>Senior Lecturer |
| 2016 | Ben-Gurion University of the Negev,<br>Lecturer |

**Other Experience**

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| 2000 - Present | Communication to local society: e.g., series of lectures on human brain, perception and vision for the local school groups; popular articles in local journals; presentations on national radio |
| 2004 - Present | Ad-hoc referee on peer review journals: e.g., NeuroImage, Human Brain Mapping, Cerebral Cortex, Journal of Cognitive Neuroscience, Journal of Neuroscience Methods |

**D. ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS**

| YEAR | NAME OF MEETING, CITY, COUNTRY |
|---|---|
| 1999 | 8th Meeting of Israel Society for Neurosciences (ISFN), Eilat (Poster) |
| 2001 | 10th Meeting of Israel Society for Neurosciences (ISFN), Eilat (Lecture) |
| 2002 | 11th Meeting of Israel Society for Neurosciences (ISFN), Eilat (Lecture) |
| 2002 | 3rd Forum of European Neuroscience, Paris, France (Poster) |
| 2003 | 12th Meeting of Israel Society for Neurosciences (ISFN), Eilat (Oral Presentation) |
| 2003 | The Annual Meeting of the Association for Research in Vision and Ophtalmology, USA (Poster) |
| 2003 | 9th Annual Meeting of the Organization of Human Brain Mapping, New York, NY, USA (Poster) |
| 2005 | 35th Annual Meeting of the Society for Neuroscience, Washington DC, USA (Lecture) |
| 2005 | 11th Annual Meeting of the Organization of Human Brain Mapping, Toronto, Canada (Poster) |
| 2005 | Tel Aviv Human Brain Mapping, Tel Aviv, Israel (Invited Presentation) |
| 2007 | 13th Annual Meeting of the Organization of Human Brain Mapping, Chicago, IL, USA (Poster) |
| 2007 | 7th Annual Meeting of the Vision Sciences Society, Sarasota, FL, USA (Poster) |
| 2008 | 8th Annual Meeting of the Vision Sciences Society, Naples, FL, USA (Poster) |
| 2009 | 9th Annual Meeting of the Vision Sciences Society, Naples, FL, USA (Poster) |
| 2009 | 15th Annual Meeting of the Organization of Human Brain Mapping, San Francisco, CA, USA (Poster) |
| 2010 | Tel Aviv Human Brain Mapping, Tel Aviv, Israel (Invited Lecture) |
| 2010 | 16th Annual Meeting of the Organization of Human Brain Mapping, Barcelona, Spain (Poster) |
| 2010 | Gordon Research Conference, Lewiston, Maine, USA (Invited Presentation) |
| 2011 | 41st Annual Meeting of the Society for Neuroscience, Washington DC, USA (Poster) |
| 2011 | Tel Aviv Sourasky Medical Center Conference, Tel Aviv, Israel (Oral Presentation) |
| 2012 | 16th Congress of the European Federation of Neurological Societies, Stockholm, Sweden (e-Poster) |
| 2012 | 42nd Annual Meeting of the Society for Neuroscience, New Orleans, USA (Poster) |
| 2012 | 2nd Summer School of the Center for Creation, Content and Technology, Amsterdam, Netherlands (Invited Lecture) |
| 2013 | Conference of the Society for Cognitive Studies of the Moving Image, Berlin, Germany (Lecture) |
| 2013 | XXI World Congress of Neurology, Vienna, Austria (Poster) |
| 2013 | Annual Meeting of the Israel Neurological Association, Dead Sea, Israel (Lecture) |
| 2014 | 22nd European Congress of Psychiatry, Munich, Germany (e-Poster) |
| 2014 | EFNS-ENS Joint Congress of European Neurology, Istanbul, Turkey (Poster with Discussion) |
| 2014 | OHBM 2014 Annual Meeting, Hamburg, Germany (e-Poster) |
| 2014 | XVI World Congress of Psychiatry, Madrid, Spain (Poster) |
| 2015 | 9th World Congress on Controversies in Neurology (CONy), Budapest, Hungary (Poster) |
| 2015 | 24th Annual Meeting of Israel Society for Neurosciences (ISFN), Eilat, Israel (Lecture) |
| 2016 | 24th European Congress of Psychiatry, Madrid, Spain (e-Poster) |
| 2016 | 10th World Congress on Controversies in Neurology (CONy), Lisbon, Portugal (Poster) |
| 2016 | OHBM 2016 Annual Meeting, Geneva, Switzerland (Poster) |

2016 Champlimaud Neuroscience Symposium, Lisbon, Portugal
2017 25th European Congress of Psychiatry, Florence, Italy (e-Poster)
2017 Alzheimer's Association International Conference, London, England (Poster)
2017 XXIII World Congress of Neurology, Kyoto, Japan (e-Poster)
2017 International Conference & Exhibition on Alzheimers Disease & Dementia, Rome, Italy
2018 26th European Congress of Psychiatry, Nice, France (e-Poster)
2018 OHBM 2018 Annual Meeting, Singapore (Poster)
2019 24th International Conference on Neurosurgery and Neuroscience, Edinburgh, Scotland
2019 32nd European Neurology Congress, London, England
2019 10th IBRO World Congress of Neuroscience, Daegu, Korea

## E. ACADEMIC AND PROFESSIONAL AWARDS

### E.1.2 EXTERNAL GRANTS

| YEAR | FOUNDATION | TITLE | SUM | CO-RESEARCHERS | P.I. |
|---|---|---|---|---|---|
| 2011-2012 | International Brain Research Organization | Return Home Grant | 17,000 EURO | | Yulia Lerner |
| 2011-2012 | Israel Ministry of Absorption | Return Home Grant | 60,000 NIS | | Yulia Lerner |
| 2012-2016 | Marie Curie Actions – 7th Framework Programme of the European Union | Career Integration Grant | 100,000 EURO | | Yulia Lerner |
| 2014-2015 | Gassner Fund for Medical Research | | 74,000 NIS | | Yulia Lerner |
| 2013-2015 | Ministry of Science, Technology and Space | Eshkol Scholarship for Postdoctoral Fellow | 200,000 NIS | | Yulia Lerner |
| 2016 | BeyondVerbal | One-year scholarship for PhD Student | 25,000 NIS | | Yulia Lerner |
| 2016-2018 | NIPI | Young Investigator Research Grant | $ 30,000 | | Yulia Lerner |
| 2018 - 2021 | ISF | Individual Research Grant | 200,000 NIS /year | | Yulia Lerner |

### E.2 FELLOWSHIPS

2004 Charles Clore Postdoctoral Fellowship

2006 International Brain Research Organization Postdoctoral Fellowship

2010 Gordon Research Conference Fellowship

**E.3 SCHOLARSHIPS**

1989-1994 Dean Scholarship for Outstanding Achievements (*Red Diploma*)

**E.4 PRIZES**

2002 Israel Society for Neuroscience Travel Award

2003 Weizmann Institute of Science Travel Award

2005 Organization of Human Brain Mapping Travel Award

2005 The National Institute for Psychobiology in Israel Travel Award

2007 Peter Gruber International Research Award in Neuroscience

**F. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

| YEAR | SOCIETY (COUNTRY) |
|---|---|
| 1999-Present | Israel Society for Neuroscience (ISFN) |
| 2002 | European Neuroscience Society (ENS) |
| 2003-2009 | Organization for Human Brain Mapping (OHBM) |
| 2005-Present | Society for Neuroscience (SFN) |
| 2007-2011 | International Brain Research Organization (IBRO) |
| 2007-2009 | Vision Sciences Society (VSS) |
| 2012 | European Federation of Neurological Societies |
| 2013 | Israel Neurological Society |

**G. STUDENTS MENTORED**

| PERIOD (YEARS) | | NAME OF STUDENT<br>SUBJECT<br>TITLE OF THESIS<br>NAME OF ACADEMIC INSTITUTION |
|---|---|---|
| 2011-2016 | Post doc | Galit Yogev Seligmann<br>Developing early functional neuromarkers for abnormal cognitive decline: multimodal brain imaging approach in MCI<br>Sackler Faculty of Medicine, Tel Aviv University<br><br>**2013:** *Granted with the Eshkol Scholarship, funded by the Ministry of Science, Technology and Space, 200,000 NIS for 2 years* |
| 2013-2017 | PhD | Noga Oren (with Prof. Nir Giladi)<br>Characterizing functional neuronal patterns of normal aging in cognitive and emotional domains related to incipient Alzheimer's disease, using functional magnetic resonance imaging.<br>Sackler Faculty of Medicine, Tel Aviv University |

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| 2014-Present | MSc-PhD | Tamir Eisenstein<br>Sackler Faculty of Medicine, Tel Aviv University |
| 2016-2017 | MSc | Plia Bary<br>Sagol School of Neuroscience, Tel Aviv University |
| 2016-Present | PhD | Ayelet Or-Borichev<br>Sackler Faculty of Medicine, Tel Aviv University |
| 2018 - 2019 | MSc | Noa Sharon<br>Sagol School of Neuroscience, Tel Aviv University |
| 2020- | MSc | Niv Siton<br>Sagol School of Neuroscience, Tel Aviv University |

**SCIENTIFIC PUBLICATIONS**

1. Yogev-Seligmann G., Eisenstein T., Ash E., Giladi N., Sharon H., Nachman S., Kodesh E., Hendler T., **Lerner Y.** (2020) Functional brain plasticity following physical exercise in older adults with amnestic mild cognitive impairment.

2. Eisenstein T., Yogev-Seligmann G., Ash E., Giladi N., Sharon H., Shapira-Lichter, I. Nachman S., Hendler T., **Lerner Y.** (2020) Maximal Aerobic Capacity is Associated with Hippocampal Cognitive Reserve in Older Adults with Amnestic Mild Cognitive Impairment. *Hippocampus*

3. **Lerner Y**., Scherf K.S., Katkov M., Hasson U., Behrmann M. (2020) Age-Related Changes in Neural Networks Supporting Complex Visual and Social Processing in Adolescence. *J Cogn Neurosci*. *Under Revision*

4. Oren N., Ash E.L., Elkana O., Ben-Porat T., **Lerner Y**., Shapira-Lichter, I**.** (2020) Posterior cingulate cortex processing predicts memory level in healthy aging - a 5 year fMRI longitudinal study. *Brain Imaging and Behavior*. *Under Revision*

5. Oren N., Ash E.L., Shapira-Lichter, I**.**, Elkana O., Reichman-Eisikovits O., Chomsky L., **Lerner Y.** (2019) Resting-state functional connectivity of the hippocampus and its relations to subsequent memory decline in older age – a longitudinal fMRI study. *Frontiers Neuroscience, 11, 163.*

6. Nir T.*, Or-Borichev A.*, Izraitel E., Hendler T., Matot, I.$^{\perp}$ **Lerner Y.**$^{\perp}$ (2019) Transient Subcortical Functional Connectivity Upon Emergence from Propofol Sedation in Human Male Volunteers: Evidence for Active Emergence. *British Journal of Anaesthesia*, *123(3), 298-308.*

7. **Lerner Y.**, Bleich-Cohen M., Eisenstein T., Madah W., Roseman L., Solnik S., Yogev-Seligmann G., Kremer I., Hendler T. (2018) Abnormal Neural Hierarchy in Processing of Verbal Information in Patients with Schizophrenia. *Neuroimage*: *Clinical* 17, *1047-1060*.

8. Marron T.R., **Lerner Y.**, Berant E., Kinreich S., Shapira-Lichter I., Hendler T., Faust M. (2018) Chain Free Association, Creativity, and the Default Mode Network. *Neuropsychologia, 118, 40-58.* doi: 10.1016/j.neuropsychologia.2018.03.018

9. Oren N., Shapira-Lichter, I., **Lerner Y.**, Hendler T., Giladi N., Ash E.L. (2018) How Attention Modulates Encoding of Dynamic Stimuli in Older Adults. *Behavioural Brain Research,* 347, 209-218.

10. Golland Y., Levit-Binnun N., Hendler., **Lerner Y**. (2017) Neural dynamics underlying emotional transmissions between individuals. *SCAN 12(8): 1249-1260.*

11. Oren N., Shapira-Lichter, I., **Lerner Y.**, Tarrasch R., Hendler T., Giladi N., Ash E.L. (2017) Schema benefit vs. proactive interference: Contradicting behavioral outcomes and coexisting neural patterns. *Neuroimage, 158, 271-281.*

12. Yogev-Seligmann G., Oren N., Ash E., Hendler T., Giladi N., **Lerner Y.** (2016) Altered Topology in Information Processing of a Narrated Story in Older Adults with Mild Cognitive Impairment. *J Alzheimers Dis, 53*, *517-533.*

13. Oren N., Shapira-Lichter, I., **Lerner Y.**, Tarrasch R., Hendler T., Giladi N., Ash E. (2016) How attention modulates encoding of dynamic stimuli. *Front. Hum Neurosci. doi.org/10.3389/fnhum.2016.00507*

14. Farbood M., Heeger D., Marcus G., Hasson U., **Lerner Y.** (2015) The Neural Processing of Hierarchical Structure in Music and Speech at Different Timescales. *Front. Neurosci. 9:157. doi: 10.3389/fnins.2015.00157.*

15. Oren N., Yogev-Seligmann G., Ash E., Hendler T., Giladi N., **Lerner Y.** (2015) The Montreal Cognitive Assessment in Cognitively-intact Elderly: A Case for Age-adjusted Cutoffs. *J Alzheimers Dis, 43(1), 19-22*.

16. **Lerner Y.**, C.J. Honey CJ., Katkov M., Hasson U. (2014) Temporal scaling of neural responses to compressed and dilated natural speech. *J Neurophysiol 111(12)*.

17. Honey C.J., Thompson CR, **Lerner Y.**, Hasson U. (2013) Not Lost in Translation: Neural Responses Shared Across Languages. *J Neurosci, 32(44), 15277-83*.

18. Ben-Yakov A, Honey C.J., **Lerner Y.**, Hasson U. (2012) Loss of Reliable Temporal Structure in Event-related Averaging. *NeuroImage 63(1), 501-506*.

19. **Lerner Y.**, Singer N., Cohen O., Weintraub Y., Rubin N., Ungerleider L, Hendler T. (2012) Feeling without Seeing? Engagement of Ventral, but not Dorsal, Amygdala during Unaware Exposure to Emotional Faces. *J Cogn Neurosci 24 (3), 531-542.*

20. **Lerner Y.**, Honey C.J., Silbert L.J, Hasson U. (2011) Topographic Mapping of a Hierarchy of Temporal Receptive Windows Using a Narrated Story. *J Neurosci 31(8), 2906-2915*.

21. **Lerner Y.**, Zhdanov A., Papo D., Hendler T. (2009) Eyes Wide Shut: Closing Eyes Facilitates the Neural Processing of Emotional Experience with Music. *PLoS ONE 4(7), e6230.doi:10.1371/journal.pone.0006230*.

22. **Lerner Y.**, Epshtein B., Ullman S., Malach R. (2008) Class Information Predicts Activation by Object Fragments in Human Object Areas. *J Cogn Neurosci 20, 1189-1206*.

23. **Lerner Y.**, Hendler T., Malach R., Harel M., Leiba H., Stolovitch Ch., Pianka P. (2006) Selective Size-related Deprived Activation in Retinotopic and High Order Visual Cortex of Human Amblyopes. *NeuroImage 33(1), 169-179*.

24. **Lerner Y.**, Harel M., Malach R. (2004) Rapid Completion Effects in Human High Order Visual Areas. *NeuroImage 21, 516-526*.

25. **Lerner Y.**, Pianka P., Azmon B., Leiba H., Stolovitch Ch., Loewenstein A., Harel M., Hendler T., Malach R. (2003) Area-Specific Amblyopic Effects in Human Occipitotemporal Object Representations. *Neuron 40, 1023-1029*.

26. **Lerner Y.**, Hendler T., Malach R. (2002) Object-completion Effects in the Human Lateral Occipital Complex. *Cerebral Cortex 12(2), 163 – 177*.

27. **Lerner Y.**, Hendler T., Ben Bashat D., Harel M., Malach R. (2001) A Hierarchical Axis of Object Processing Stages in the Human Visual Cortex. *Cerebral Cortex 11(4), 287-297*.

**C. CHAPTERS IN BOOKS**

1. Malach R., Avidan G., **Lerner Y.**, Hasson U., Levy I. (2004) The Cartography of Human Visual Object Areas. In: Attention and Performance XX: 195-204. Editors: N. Kanwisher, J. Duncan. Publisher: Oxford University Press.