Curriculum Vitae – Avi Mendelsohn

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Current position:

Senior Lecturer, Sagol Department of Neurobiology, Faculty of Natural Sciences, University of Haifa, Haifa, 3498838.

2012-2014

Postdoctoral Fellow, Departments of Psychiatry and Neuroscience, Friedman Brain Institute, Icahn School of Medicine at Mount Sinai, New York, New York 10029.

Education

2005-2010: **Ph.D. -** Weizmann Institute of Science, Department of Neurobiology. Thesis topic: Long-term episodic memory retrieval: from brain to behavior. Mentor: Prof. Yadin Dudai.

2002-2005: **M.A.** - Tel Aviv University, Tel Aviv, Israel, Faculty of Social Sciences, Department of Psychology, Psychobiology.
Advisors: Prof. Matti Mintz & Prof. Talma Hendler.
M.A. degree, February 2005, Outstanding Excellence, Deans Honors.

1998-2002: **B.A.** - Ben-Gurion University of the Negev, Beer-Sheva, Israel. B.A. program, Faculty of Social Sciences, Department of Behavioral Sciences.

Research Experience

2011: Senior Intern, Neuroimaging Consultant for the Department of Neurobiology, Weizmann Institute of Science.

2005-2010: Weizmann Institute of Science, Department of Neurobiology. Experience in behavioral and functional Magnetic Resonance Imaging (fMRI) research, design, analysis, programming (Matlab), and advanced statistics. Expertise in learning and memory, real-time fMRI, brain-computer interface.

2003-2005: Wohl Institute of Advanced Brain Imaging, Sourasky Medical Center, Tel Aviv, Israel. Research Assistant in the field of visual and emotional brain systems.

2000-2002: Department of Genetics, Ben-Gurion University, Faculty of Medicine. Research Assistant in the field of learning and memory.

Teaching

- **Rothschild-Weizmann Program for Science Teaching**, Introduction to *Cognitive Neuroscience*.
- **Weizmann Institute of Science, Department of Neurobiology**, Graduate course lectures and workshops on *Functional MRI Methods and Applications*.
- **Davidson Institute of Science Education**, Lecture series at the Frontiers of Science – *The Remembering Brain*.
- **Davidson Institute of Science Education, Young Researchers**, Lectures on *Introduction to the Brain*, and *Memory in the Brain*.
- **Netanya Academic College**, Teacher assistant - *Physiological Psychology*.

Awards and Honors

- The Salim and Rachel Benin Foundation Scholarship.
- Deans honors, Tel Aviv University, Faculty of Social Sciences.
- Outstanding Excellence honors, Tel Aviv University.
- Zlotowsky Scholarship for neuroscience research, Ben-Gurion University.

Military Service

1995-1998: Compulsory IDF service, Intelligence unit.

List of Publications

Published articles

1. Tavares, R., **Mendelsohn, A.**, & Schiller, D. A map for social navigation in the human brain. *Neuron* (*in press*).
2. Yacoby, A., Dudai, Y., & **Mendelsohn, A.** (2015). Metamemory ratings predict long-term changes in reactivated episodic memories. *Frontiers in Behavioral Neuroscience* 9, 20. Doi: 10.3389/fnbeh.2015.00020.
3. **Mendelsohn, A.**, Pine, A., & Schiller, D. (2014). Between desires and actions: how motivationally salient cues invigorate motor imagery in the brain. *Neuron* 81, 207-217.
4. Collins, K.A., **Mendelsohn, A.**, Cain, C.K., & Schiller, D. (2014). Taking action in the face of threat: neural synchronization predicts adaptive coping. *The Journal of Neuroscience* 34, 14733-14738.
5. Pine, A., **Mendelsohn, A.**, & Dudai Y. (2014). Unconscious learning of likes and dislikes is persistent, resilient, and reconsolidates. *Frontiers in Psychology* doi: 10.3389/fpsyg.2014.01051.
6. Furman, O., **Mendelsohn, A.**, & Dudai, Y. (2012). The transformation of the engram: Time reduces retrieval-related brain activity but correlates it better with accuracy. *Learning & Memory 19*, 575-587.
7. **Mendelsohn, A.**, Furman, O., & Dudai Y. (2010). Signatures of memory: Brain coactivations during retrieval distinguish correct from incorrect memory. *Frontiers in Behavioral Neuroscience* 4, 1-12.

8. Zaretzky, M., **Mendelsohn, A.**, Mintz, M., & Hendler, T. (2010). In the eye of the beholder: Internally-driven uncertainty of danger circuits recruits the amygdala and dorso-medial prefrontal cortex. *Journal of Cognitive Neuroscience* 22, 2263-2275.
9. **Mendelsohn, A.**, Furman, O., Navon, I., & Dudai Y. (2009). Subjective vs. documented reality: A case study of long-term real-life autobiographical memory. *Learning & Memory* 16, 142-146.
10. Siman-Tov, T., Pago, D., Gadoth, N., Schonberg, T., **Mendelsohn, A.**, Perry, D., & Hendler, T. (2009). Mind your left: Spatial bias in subcortical fear processing. *Journal of Cognitive Neuroscience* 21, 1782-1789.
11. **Mendelsohn, A.**, Chalamish, Y., Solomonovich, A., & Dudai, Y. (2008). Mesmerizing memories: Brain substrates of episodic memory suppression in posthypnotic amnesia. *Neuron* 57, 159-170.
12. Siman-Tov, T., **Mendelsohn, A.**, Schonberg, T., Avidan, G., Podlipsky, I., Pessoa, L., Gadoth, N., Ungerleider, L.G., & Hendler, T. (2007). Bihemispheric leftward bias in a visuospatial attention-related network. *The Journal of Neuroscience* 27, 11271-11278.
13. **Mendelsohn, A.**, Strous, R., Bleich, M., Assaf, Y., & Hendler, T. (2006). Regional Axonal Abnormalities in First Episode Schizophrenia: Evidence Based on High b-value Diffusion Weighted Imaging. *Psychiatry Research: Neuroimaging* 146, 223-9.
14. Golan, H., Levav, T., **Mendelsohn, A.**, & Huleihel, M. (2004). Involvement of tumor necrosis factor alpha in hippocampal development and function. *Cerebral Cortex 14*, 97-105.

Submitted for publication

15. Zhang, Z., **Mendelsohn, A.**, Manson, K., Schiller, D., & Levy, I. Functional heterogeneity of the ventromedial prefrontal cortex: value representation and affective response inhibition (*under review*).

Selected Talks / Posters

1. Motivational cues enhance mental action in the human brain, Israeli Society for Neuroscience, **Eilat, Israel**, 2014 (Talk).
2. Motivational cues potentiate the neutral substrates of motor imagery. 11th International Basal Ganglia Society Meeting, **Eilat, Israel**, 2013 (Poster).
3. Controlling and avatar by thought using real-time functional magnetic resonance imaging. Organization of Human Brain Mapping, Poster session, **Beijing, China**, 2012 (Poster).
4. How Conditional Motivation Affects Imagery: A Real-Time fMRI Study. **Yale University, CT**, 2012 (Talk).
5. Brain signatures of long-term episodic memory retrieval: from engrams to behavior. Mount Sinai School of Medicine, **New York, NY**, 2011 (Talk).
6. Pavlovian to Imagery Instrumental Transfer. **New York University, NY** (Talk).
7. Memory suppression in posthypnotic amnesia: what retrieval strategies are involved? FENS abstr., Vol. 4, 0.23.23, **Geneva, Switzerland**, 2008 (Poster).
8. Brain substrates of episodic memory suppression in posthypnotic amnesia. Society for Neuroscience, **San Diego, CA**, 2007 (Poster).

9. Forget about accuracy, it's confidence that counts: A case study of long-term documented autobiographical memory. The 17th Isreali Society for Neuroscience, **Eilat, Israel**, 2007 (Poster).
10. Brain substrates o suppression in posthypnotic amnesia. Symposium on Mechanisms of Placebo/Nocebo Responses, **Tutzing, Germany**, 2007 (Talk).
11. Mind your Left: Superiority of Left Visual Field Presentation in Amygdala Response to Fearful Faces. Human Brain Mapping meeting, Poster Presentation **Florence, Italy**, 2006 (Poster).