

April, 2015

## **Shai Gabay - Curriculum Vitae**

### **Personal Information**

Name: Shai Gabay  
Place of Birth: Israel  
Date of Birth: 20/3/1979  
Marital Status: Married + 1  
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### **Education**

2012-2014                      Post-Doc position under the supervision of Prof. Marlene Behrmann, Carnegie Mellon University.

2010-2011                      Post-Doc position under the supervision of Prof. Avishai Henik and Dr. Nurit Gronau, The Open University, Israel.

2006-2012                      PhD studies in Neuropsychology, Ben-Gurion University of the Negev. Summa cum laude. Adviser: Prof. Avishai Henik

2004-2006                      MA studies in Neuropsychology, Ben-Gurion University of the Negev. Adviser: Prof. Avishai Henik

2001-2004                      BA studies in Behavioral Science, Ben-Gurion University of the Negev.

### **Employment History**

2014-Present    Senior Lecturer, Psychology Department, University of Haifa.

### **Military Service**

1997-2000                      Military service: Tank commander in the Israeli Defense Forces

### **Research Interests**

The interaction between attentional systems  
Motor ability and attention  
Object perception  
The influence of temporal information on orienting of attention

### **Research Methods**

Behavioral, TMS, fMRI, and EEG, applied for the study of normal and neurological patients; phylogenetic models for visual system in humans.

## **Teaching History**

- Current           Lecturer: "Descriptive and Inferential Statistics", "Neuropsychological aspects of attentional systems", and "The neural basis of perception" at the Department of psychology, University of Haifa.
- 2006-2009       Lecturer: "Neuropsychological aspects of attentional systems" and "Applied Computation" at the Department of Behavioral Sciences, Ben-Gurion University of the Negev.
- 2004-2005       Teaching assistant: "Experimental Psychology", "Surveys and Linear Methods" and "Cognitive Neuropsychology" at the Department of Behavioral Sciences, Ben-Gurion University of the Negev.

## **Awards**

- 2005            Excellence scholarship from the Zlotowski Center for Neuroscience.
- 2006            Travel grant from the National Institute for Psychobiology in Israel.
- 2008            Psychology Chairperson Award for excellence in research.
- 2010            Psychology Chairperson Award for excellence in research.
- 2010            Post Doctoral scholarship at the Open University from the Planning and Budgeting Committee of the Council for Higher Education.
- 2010            Marianne Amir Award for excellence in research.
- 2010            Kreitman Foundation Award for excellence in research.

## **Reviewer**

### *Journals*

Attention, Perception and Psychophysics; Awareness and Cognition; Brain Research; British Journal of Ophthalmology; Canadian Journal of Experimental Psychology; Cognition; Cognition and Emotion; Cognitive Processing; Consciousness and Cognition; Cortex; Experimental Brain Research; Frontiers in Human Neuroscience; Japanese Psychological Research; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: Human Perception and Performance; Journal of the International Neuropsychological Society; Naturwissenschaften; Psychological Research; PLOS ONE; Psychonomic Bulletin and Review; Visual Cognition; Vision Research.

### *Grants*

ERC StG (EU)

### Competitive Grants

2014-2016	BSF Start-up Program	Annual Budget: 37,500\$
2014-2018	ISF Starting Grant	Annual Budget: 58,410\$
2014	ISF Starting Equipment	Annual Budget: 56,366\$

### Scientific Publications

1. Weinbach, N., Shofty, I., **Gabay, S** and Henik, A. (in press) Endogenous Temporal and Spatial Orienting: Evidence for Two Distinct Attentional Mechanisms. *Psychonomic Bulletin and Review*,
2. **Gabay, S.**, and Behrmann, M. (2014). Attentional Dynamics Mediated by Subcortical Mechanisms. *Attention Perception & Psychophysics*. 1-14.
3. **Gabay, S.**, Burlingham, C., and Behrmann, M. (2014). The Nature of Face Representations in Subcortical Regions. *Neuropsychologia*, 59, 35-46.
4. **Gabay, S.**, Nestor, A., Dundas, E., and Behrmann, M., (2014). Monocular advantage for face perception implicates subcortical mechanisms in adult humans. *Journal of Cognitive Neuroscience*, 26, 927-937.
5. Gabay, Y., **Gabay, S.**, Schiff, R., Ashkenazi, S., and Henik A. (2013) Visuospatial attention deficits in developmental dyslexia: Evidence from visual and mental number line bisection tasks. *Archives of Clinical Neuropsychology* 28, 829-836
6. **Gabay, S.**, Pertzov, Y., Avidan, G., & Henik, A. (2013). Remapping environment without corollary discharges: Evidence from scene based IOR. *Journal of Vision*. 13.
7. **Gabay, S.**, Leibovich, T., Henik, A., & Gronau, N. (2013). Size before Numbers: Conceptual Size Primes Numerical Value. *Cognition*. 129, 18-23
8. **Gabay, S.**, Labovich, T., Ben Simon, A., Henik, A., & Segev, R. (2013). Inhibition of Return in the Archer Fish. *Nature Communications*, 4, 1657
9. **Gabay, S.**, Avni, D., & Henik, A. (2012). Reflexive orienting by central arrows: Evidence from the inattentive blindness task. *Psychonomic Bulletin and Review*. 10.3758/s13423-012-0252-8
10. **Gabay, S.**, Chica, A. B., Charras, P., Funes, M. J., & Henik, A. (2012). Cue and

- target processing modulate the onset of Inhibition of Return. *Journal of Experimental Psychology: Human Perception and Performance*, 38, 42-52.
11. Salo, R. **Gabay, S.**, Fassbender, C., & Henik, A. (2012). Distributed attentional deficits in chronic methamphetamine abusers: Evidence from the attentional network task (ANT). *Brain and Cognition*, 77, 446-52.
  12. **Gabay, S.**, Pertzov, Y., & Henik, A. (2011). Orienting of attention, pupil size and the norepinephrine system. *Attention Perception & Psychophysics*, 73, 123-129.
  13. **Gabay, S.**, & Henik, A. (2010). Temporal expectancy modulates inhibition of return in a discrimination task. *Psychonomic Bulletin and Review*, 17, 47-51.
  14. **Gabay, S.**, Henik, A., & Gradstein, L. (2010). Ocular motor ability and covert attention in patients with Duane Retraction Syndrome. *Neuropsychologia*, 48, 3102-3109.
  15. Ouellet, M., Santiago, J., Israeli, Z., & **Gabay, S.** (2010). Is the future the right time? *Experimental Psychology*, 57, 308-314.
  16. van Koningsbruggen, M., **Gabay, S.**, Sapir, A., Henik, A., & Rafal, R. (2010). Hemispheric asymmetry in the remapping and maintenance of visual saliency maps: A TMS study. *Journal of Cognitive Neuroscience*, 22, 1730-1738.
  17. **Gabay, S.**, & Henik, A. (2008). The effect of expectancy on inhibition of return. *Cognition*, 106, 1478-1486.
  18. Kofman, O., Shavit Y., Ashkenazi, S., & **Gabay, S.** (2007). Habituation, discrimination and anxiety in transgenic mice overexpressing acetylcholinesterase. *Brain Research*, 1185, 170-178.

### **Papers Under Review or in preparation**

**Gabay, S.**, Okon-Singer, H., & Henik, A. (under review). Emotion Modulates Reflexive Attention: Evidence for Larger IOR Following Negative Cues.

**Gabay, S.**, & Henik, A., (under review). Interactions between Alertness, Foreperiod Effect and Task Demands.

**Gabay, S.**, Kalanthroff, E., Henik, A., & Gronau, N. (under review). Representation of conceptual size in ventral visual cortex: An fMRI investigation.

**Gabay, S.**, & Behrmann, M. (in preparation). Implications of Subcortical Mechanisms in cognitive processes.

**Gabay, S.**, & Chica, A. B. (in preparation). Reconceptualizing inhibition of return as

habituation of neural respons.

**Gabay, S., Soloveichick, M & Kimchi, R.** (in preparation). Subcortical Involvement in Global and Local Processing.

### **Lectures and Presentations at Meetings**

- Gabay, S., Kalanthroff, E., Henik, A., & Gronau N (2015). Shared neural substrates for conceptual size and numerical magnitudes. Oral presentation at the 2<sup>nd</sup> Conference on Cognition Research of the Israeli Society for Cognitive Psychology (ISCoP), Akko, February.
- Gabay, S. and Behrmann, M (2013). Attentional Dynamics Mediated by Subcortical Mechanisms. Poster presented at the 20th Annual Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, April.
- Gabay, S., Pertzov, Y., Gradstein L., Henik, A., & Avidan, G. (2009). Linking the ocular motor system and reflexive allocation of attention: An fMRI investigation. Oral presentation at the Workshop on the Functions of the Parietal Lobes, Jerusalem, March.
- Gabay, S., Pertzov, Y., Gradstein L., Henik, A., & Avidan, G. (2009). Linking the ocular motor system and reflexive allocation of attention: An fMRI investigation. Poster presented at the 16th Annual Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, March.
- Gabay, S., & Henik, A. (2007). The effect of expectancy on inhibition of return: detection vs. discrimination tasks. Poster presented at the Cognitive Neuroscience Society (CNS), New York, U.S.A., May.
- van Koningsbruggen, M., Gabay, S., Henik, A., & Rafal, R. (2007). Disruption of remapping of IOR after TMS stimulation of the parietal cortex. Poster presented at the Cognitive Neuroscience Society (CNS) Annual Meeting, New York, U.S.A, May.
- Gabay, S., & Henik, A. (2004). The effect of expectancy on inhibition of return. Poster presented at the European Society for Cognitive Psychology (ESCoP) Annual Meeting, Leiden, The Netherlands, September.

### *Lectures at colloquia*

- Interactivity between high and low level systems plays a key role in visual cognition. (2014). Invited talk at the psychology department, Ben-Gurion University of the Negev, Beer-Sheva, Israel, April.
- The effect of expectancy on inhibition of return. (2005). Invited talk at the psychology department, Bangor University, Wales, UK, August.