Yael Salzer Ph.D. Eng.

Human Factors and Decision Making in Agriculture Lab

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ACADEMIC EMPLOYMENT

2017-today	Tenure-Track Research Scientist – Volcani Center	Israel
	Head of Human Factors and Decision Making in Agriculture Lab	
	Department of Growing, Production and Environmental Engineering	, Institute of
	Agricultural Engineering, Agricultural	
	Research Organization (ARO)	
2015-2017	Postdoctoral Fellow - University of Amsterdam	The Netherlands
	Department of Psychology	
	Integrative Model-based Cognitive Neuroscience Research Unit	
	Advisor: Prof. Birte Forstmann	
2014-2015	Postdoctoral Fellow - Ben-Gurion University of the Negev	Israel
	Department of Psychology, Cognitive Neuropsychology Lab	
	Advisor: Prof. Avishai Henik	
EDUCATION		
2008-2013	Ph.D. – Ben-Gurion University of the Negev	Israel
	Department of Industrial Engineering and Management, Human Fac	
	Department of Psychology, Cognitive Neuropsychology Lab	
	Title: Cognitive Control and the Tactile Simon Task: The Unique Role	of Tactile Spatial
	Advisors: Prof. Tal Oron-Gilad and Prof. Avishai Henik	
2005-2008	M.Sc. – Ben-Gurion University of the Negev	Israel
2003-2008	Industrial Engineering and Management, Human Factors Lab	151 401
	Title: Development and Evaluation of a Thermoelectric Tactile Displa	w Based on the
	Thermal Grill Illusion	ay based on the
	Advisor: Prof. Tal Oron-Gilad	
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1998-2002	B.Sc. Electronic Engineering – Tel-Aviv University	Israel
	Faculty of Engineering, Department of Electronic Engineering, Tel-A	-
1992-1995	Galilee High School - Kefar-Sava	Israel
	Physics and Biology	

RESEARCH GRANTS

2019-2020 The Office of the Chief Scientist, Ministry of Agriculture and Rural Development Research proposal: Research and development of physiological sensor system for assessing pain in dairy cows (PI: Yael Salzer, CI: Dr. Hen Honing, Dr. Ariel Shabtay, Dr. Barak Fishbain). 470,000 NIS

SCHOLARSHIPS AND AWARDS

2017	Itzhak Shamir Postdoctoral Fellowship by Ministry of Science, Technology and Space (waived)
2017	Postdoctoral Fellowship by University of Haifa (waived)
2015-2016	Postdoctoral Fellowship Program in Social Sciences Founded by the Israel Foundations
	Trustees (IFT) - Israel Science Foundation (ISF) No 93/15
2009-2013	Negev Scholarship for Excellence by Ben-Gurion University, for doctoral students.
2012	Departmental outstanding lecturer award.
2011	Ministry of Science and Technology Scholarship ; program of Promotion of Women in Science and Technology.
2007-2011	Scholarship of the Combined Technologies for Excellence by the Council of Higher Education of Israel , for masters and doctoral students.
2010	Israel Foundations Trustees – Competition for Research Grants for Doctoral Students in the Social Sciences No29 (2009/2010).
2007	Departmental outstanding teaching assistant award .

ACADEMIA

University Teaching Experience

Ben-Gurion University of the Negev, Israel

2008-2015	15 Adjunct Lecturer	
	2015	Physiology and Human Factors of Safety for MA
	2013-2015	Introduction to Human Factors Engineering
	2009-2015	Information Technologies – Infrastructure
	2009	Automation
2006-2010	10 Teaching Assistant	
	2010	Neuropsychology of Attention
	2006-2008	Automation
	2006-2008	Automation and Medical Devices

Academic Instructorship Experience

2008-2015 Department of Industrial Engineering and Management, Human Factors Lab. Guiding undergraduate students in their final projects. Sahar Karat, Limor Rohald, Shlomi Dagan, Tamir Kabun, Adi Oren, Assaf Bar-Gil, Amichai Cohen, Or Ben-David, Shira Yossef, Nuphar Katzman, Ortal Cohen, Shiri Libman, Yossef Falkovich.

> Department of Psychology, Cognitive Neuropsychology Lab. **Guiding undergraduate psychology students** undergoing full year training as instructed research assistants. Tamar Ayalon, Galia Paz, Inbar Mazouz, Ittay Mannheim, Moran Hayut, Tomer Bruckner, Tom Fruchtman.

Journal Reviews

Cortex; Human Factors and Ergonomics Society (HFES) International Annual Meeting 2014; IEEE Transactions on Haptics; Journal of Experimental Psychology: Human Perception and Performance; Brain Research Methods; Psychonomic, Bulletin & Review; Psychological Research; IEEE Transactions on Automation Science and Engineering; Frontiers Psychology; Transactions on Haptics

Technical skills

E-prime, STATISTICA, MATLAB, LabView, Cadence, Brain Voyager, R, Python, FSL

NON-ACADEMIC EXPERIENCE

Employment

1998-2005 2000-2005 Electronics Engineer - IBM Research and De Haifa, Tel Aviv		Electronics Engineer - IBM Research and Development Laboratories, Haifa, Tel Aviv
	1999-2000	Software QA - Nice Inc., Ra'anana
	1998-1999	Tutor. Alumim Boarding School, Kefar-Sava
Military Servic	e	
1996-1997	1997 1996-1997	Air cadet, Flight Academy, Air Force Intelligence

Languages Hebrew & English full proficiency

PUBLICATIONS, PEER-REVIEWED

2017	<u>Salzer, Y.</u> , de Hollander, G., & Forstmann, B. U., (<i>Available online 24 February 2017</i>) Sensory neural pathways revisited to unravel the temporal dynamics of the Simon effect: A model-based cognitive neuroscience approach. <i>Neuroscience & Biobehavioral</i> <i>Reviews</i> . <u>http://dx.doi.org/10.1016/j.neubiorev.2017.02.023</u>
	Fruchtman, T., <u>Salzer, Y.</u> , Henik, A., & Cohen, N., (2017) The interaction between emotion and executive control - comparison between visual, auditory and tactile modalities, <i>Quarterly Journal of Experimental Psychology</i> , 70(8), 1661-1674. <u>DOI:</u> <u>10.1080/17470218.2016.1199717</u>
2015	Salzer, Y., & Oron-Gilad, T. (2015) Evaluation of an "on-thigh" vibrotactile collision avoidance alerting component in a simulated flight mission. <i>IEEE Transactions on Human-Machine Systems, 45(2),</i> 251-255. DOI:10.1109/THMS.2014.2364721.
	<u>Salzer, Y.</u> , Oron-Gilad, T., & Henik, A. (2015) Evaluation of the Attention Network Test using vibrotactile stimulations. <i>Behavior Research Methods</i> , <i>47</i> , 395-408. DOI:10.3758/s13428-014-0479-6
	Freud, E., Aisenberg, D., <u>Salzer, Y.</u> , Henik, A. & Ganel, T. (2015). Simon in action: The effect of spatial congruency on grasping trajectories. <i>Psychological Research, 79(1),</i> 134-142. <u>DOI: 10.1007/s00426-013-0533-5</u>
2014	<u>Salzer, Y.</u> , Aisenberg, D., Oron-Gilad, T., & Henik, A. (2014). In touch with the Simon effect. <i>Experimental Psychology, 61</i> (3), 165-179. <u>DOI:10.1027/1618-3169/a000236</u>
2011	<u>Salzer, Y.</u> , Oron-Gilad, T., Ronen, A., & Parmet, Y. (2011). Vibrotactile "on-thigh" alerting system in the cockpit. <i>Human Factors: The Journal of the Human Factors and</i> <i>Ergonomics Society, 53</i> (2), 118–131. <u>DOI: 10.1177/0018720811403139</u>

In preparation /Under review

<u>Salzer, Y.</u> & Friedman, J., Simon effect decays slower for somatosensory than visual task: evidence from reaching trajectories (under review)

<u>Salzer, Y.</u>, & Gotler, A., A conscious dissociation between proactive and reactive control: a somatosensory study (in preparation)

<u>Salzer, Y.</u>, de Hollander, G., van Maanen, L., Forstmann, B. U., Decoding early response capture in conflict tasks (Neuropyschologia, revised and resubmitted)

CONFERENCES AND PROCEEDINGS

2017	<u>Salzer, Y.,</u> de Hollander, G., & Forstmann, B. U., Tracing the Dynamics of the Simon Effect: A Model-Based Cognitive Neuroscience Approach, <i>ISCOP</i> , Akko, Israel, February 21-23, 2017
2016	<u>Salzer, Y.,</u> de Hollander, G., van Maanen, L., Salti, M., & Forstmann, B. U., Comparing visual and tactile Simon effects: a model-based analysis, Annual Meeting of the Society of Neuroscience, November 12-16, San Diego, CA, 2016
	de Hollander, G., <u>Salzer, Y.</u> , Forstmann, B., van Maanen, L., A linear ballistic accumulator model with a fast-guess process accounts for empirical findings in the Simon task, 49th Annual Meeting of the Society of Mathematical Psychology, 4-7 August, New Brunswick, New Jersey, USA, 2016
	Friedman, J. & <u>Salzer, Y.</u> , Elucidating the differences between the tactile and visual Simon effect using arm movements, <i>ISCOP</i> , Akko, Israel, 16-18 February, 2016.
2015	<u>Salzer, Y.</u> , Gotler, A., & Henik, A., Consciousness is mandatory for proactive control, but not reactive control: A somatosensory study, <i>NVP</i> , Egmand aan Zee, The Netherlands, 17-19 December, 2015.
	Katzman, N., Oron-Gilad, T. & <u>Salzer, Y.</u> , Tactile interfaces for dismounted soldiers: User-perceptions on content, context and loci. <i>Human Factors and Ergonomic Society</i> <i>Conference</i> , Los Angeles, 26-30 October, 2015.
2014	<u>Salzer, Y.</u> , Theoretical and applied aspects of attention to the tactile modality. <i>German-Israeli Minerva School on Cognitive Robotics</i> , Berlin, Germany, 24-27 February, 2014.
2013	Fruchtman, T., <u>Salzer, Y.</u> , Cohen, N., & Henik, A., The links between emotion and executive control: a comparison between visual and tactile modalities. <i>Emotional, All Too Emotional – Neuroscientific Views on Affect and its Regulation in Humans,</i> Tel-Aviv, 19 March, 2013.
2012	<u>Salzer, Y.</u> , & Oron-Gilad, T., A comparison of "on-thigh" vibrotactile, combined visual- vibrotactile, and visual-only alerting systems for the cockpit under visually demanding conditions. <i>Human Factors and Ergonomic Society Conference</i> , Boston, 22-26 October, 2012.
	<u>Salzer, Y.</u> , & Oron-Gilad, T., It's burning cold! Visual and tactile events become thermal concepts, <i>European Society of Cognitive and Affective Neuroscience (ESCAN)</i> , Marseille, France, 9-12 May, 2012.
2011	<u>Salzer, Y.</u> , Oron-Gilad, T., & Henik, A., Do different modalities alert tactile Simon differently? <i>20th Israeli Society for Neuroscience (ISFN) Annual Meeting</i> , Eilat, 11-13 December, 2011.
	Aisenberg, D., <u>Salzer, Y.</u> , Gotler, A., Mannheim, I., & Henik, A., Cross modal processing

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	and cognitive control. <i>The 27th Meeting of the International Society for Psychophysics</i> , Herzliya, Israel, October 24-27, 2011.
	Yosef, S., <u>Salzer, Y.</u> , Oron-Gilad, T., Vibrotactile 'on thigh' alerting system in the cockpit <i>16th International Symposium on Aviation Psychology</i> , Dayton, Ohio, USA, 2-5 May, 2011.
2010	<u>Salzer, Y.</u> , Aisenberg, D., Oron-Gilad, T., & Henik, A., In touch with the Simon Effect. <i>Cognitive Science Association for Interdisciplinary Learning (CSAIL)</i> , Hood River, Oregon, USA, 24-28 July, 2010.
	<u>Salzer, Y.</u> , Oron-Gilad, T., & Ronen, A., Vibrotactor-belt on the thigh – Directions in the vertical plane. <i>EuroHaptics</i> , Amsterdam, Holland, 7-10 July, 2010. (poster)
	Salzer, Y., Aisenberg, D., Oron-Gilad, T., & Henik, A., In touch with the Simon Effect. Selection and Control Mechanisms in Perception and Action, Jerusalem, Israel, 12-16 April, 2010.
2008	Oron-Gilad, T., <u>Salzer, Y.</u> , & Ronen, A., Thermoelectric tactile display based on the thermal grill illusion, <i>EuroHaptics,</i> Madrid, Spain, 10-13 October, 2008.
2007	<u>Salzer, Y.</u> , Oron-Gilad, T., & Ronen A., Thermoelectric tactile display based on the thermal grill illusion, <i>European Conference on Cognitive Ergonomics</i> , London, UK, August 28-31, 2007.