

CURRICULUM VITAE

Maya Weinstein

PERSONAL DATA

Address: Derech Ramatayim 11/48 Hod-Hasharon 45323
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I.D : 036241859
Place of Birth: Israel
Date of Birth: 18.06.1979
Marital Status: Married+2

EDUCATION

| Year | Degree | Institution |
|-------------|----------------------------|---|
| 2001-2004 | B.A. | Psychobiology The Hebrew University of Jerusalem |
| 2005-2008 | M.A | Clinical Neuropsychology (with honors) The Hebrew University of Jerusalem |
| 2009-2014 | Ph.D. (Thesis approved) | Psychology Bar Ilan University |

THESIS: Abnormal Brain Development: A longitudinal study of advanced MRI and neuropsychological outcome

SUPERVISORS: Professor Ronny Geva –Bar Ilan University
Professor Varda Gros-Tsur – Shaare Zedek Medical Center
Dr. Dafna Ben-Bashat- Tel Aviv University

MAIN RESEARCH INTERESTS

1. Brain imaging and behavior
2. Abnormal development
3. Pediatric rehabilitation
4. White matter development
5. Functional and structural connectivity

PROFESSIONAL EXPERIENCE

Apr. 2014-present: Post-doctoral research fellow at Oxford Brookes University at Oxford, United Kingdom. Researcher in the Department of Health and Life Science, working on a research project of children with hemiplegia in collaboration with Dr. Dido Green.

2013 – present: Lowenstein Rehabilitation Hospital

Internship in Rehabilitation Psychology

2008-2010: Clinic for Functional Brain Mapping for Neurosurgery

Functional Brain Imaging Unit, Wohl Institute for Advanced Imaging, Tel Aviv Sourasky Medical Center under Prof. Talma Hendler. Functional Mapping for neuro-surgery using FMRI and DTI Data analysis (SPM, SPSS, DtiStudio, Brainvoyager, FSL)

2007-2009: Neuro-psychologist in Multi-disciplinary Tourette Clinic

Department for Pediatric Neurology, Shaare Zedek Medical Center in Jerusalem

2007-2008: Neuro-psychology Student Internship

Pediatric Rehabilitation Department, Sheba Medical Center at Tel-Hashomer

2006-2007: Neuro-psychology Student Internship

Department for Pediatric Neurology, Shaare Zedek Medical Center in Jerusalem

2006-2007: Research Assistant- Prof. Jacob Goldenberg's Business Lab

School of Business Administration, The Hebrew University of Jerusalem, Israel..

2004 Research Assistant: Prof. Shaul Hochstein's Neurobiology Lab

the Institute of Life Sciences and the Interdisciplinary Center for Neural Computation at the Hebrew University of Jerusalem

2003-2004 Research Assistant: Prof. Shlomo Bentin's Electrophysiology Lab

Psychology Department at the Hebrew University of Jerusalem

CLINICAL COURSES

Autism Diagnostic Observation Schedule (ADOS) course (2009)- Hebrew University of Jerusalem, Dr. Cory Shulman

Griffith Mental Developmental Scales (GMDS) (2010)- Weinberg Child Development, Sheba Medical Center, Dr. Denise Challice.

Brief Mindfulness course (2014)- Loewenstein Hospital, Dr. Yair Avraham

Hypnosis (2015)- Loewenstein Hospital, Dr. Gabi Golan

ACADEMIC TEACHING EXPERIENCE

Feb. 2015-June. 2016: Lecturer at Beit Berl College at the M.Teach program. Teaching a course in "Brain, memory and learning" for M.A. students.

Oct. 2015-Jan. 2016: Lecturer at the Hebrew University of Jerusalem in the Department of Occupational Therapy. Teaching a course in "Neuropsychology" for B.A. students.

Sept. 2015-Nov. 2016: Teaching a course in "Neuropsychology" to psychologists at Lowenstein Rehabilitation Hospital

2012-2015: Guest Lecturer in Pediatric Neuropsychology course under Prof. Ronny Geva at Bar-Ilan University.

LIST OF PUBLICATIONS

ARTICLES IN REFEREED JOURNALS/PERIODICALS

1. Weinstein, M, M, Meijer SW, Baas CM, Zielinski IM, Hoare B, Van Cappellen van Walsum, Steenbergen B, Caeyenberghs K, van Rijn CM, Green D, Jongsma M. (In Preparation). Corticospinal tract development in relation to complex motor behaviour in adolescents with unilateral cerebral palsy; significance of asymmetry.
2. Weinstein, M, Green, D., Rudisch, J., Zielinski I, Benthem-Munuz, M., Jongsma, M., McLellend, V., Steenbergen, B., Ben Bashat, D., Barker, G. (In Preparation). Understanding the relationship between brain and upper limb function in children with unilateral motor impairments: A multimodal approach.

3. Weinstein, M., Ben Sira, L., Moran, A., Berger, I., Marom, R., Geva, R., Gross-Tsur, V., Leitner, Y., Bashat, D.B., 2016. The motor and visual networks in preterm infants: an fMRI and DTI study. *Brain Res.*
4. Weinstein, M., Myers, V., Green, D., Schertz, M., Shiran, S.I., Geva, R., Artzi, M., Gordon, A.M., Fattal-Valevski, A., Ben Bashat, D., 2015. Brain Plasticity following Intensive Bimanual Therapy in Children with Hemiparesis: Preliminary Evidence. *Neural Plast.* 2015, 798481.
5. Shapira-Lichter, I., Weinstein, M., Lustgarten, N., Ash, E., Litinsky, I., Aloush, V., Anouk, M., Caspi, D., Hendler, T., Paran, D., 2016. Impaired diffusion tensor imaging findings in the corpus callosum and cingulum may underlie impaired learning and memory abilities in systemic lupus erythematosus. *Lupus.*
6. Schertz, M., Shiran, S.I., Myers, V., Weinstein, M., Fattal-Valevski, A., Artzi, M., Ben Bashat, D., Gordon, A.M., Green, D., 2015. Imaging Predictors of Improvement From a Motor Learning-Based Intervention for Children With Unilateral Cerebral Palsy. *Neurorehabil Neural Repair.*
7. Leitner*, Y., Weinstein*, M., Myers, V., Uliel, S., Geva, K., Berger, I., Marom, R., Bashat, D.B., Ben-Sira, L., Geva, R., Gross-Tsur, V., 2014. Diffuse excessive high signal intensity in low-risk preterm infants at term-equivalent age does not predict outcome at 1 year: a prospective study. *Neuroradiology.* 56, 669-78.
*Equal contributors
8. Shiran, S.I., Weinstein, M., Sirota-Cohen, C., Myers, V., Ben Bashat, D., Fattal-Valevski, A., Green, D., Schertz, M., 2014. MRI-based radiologic scoring system for extent of brain injury in children with hemiplegia. *AJNR Am J Neuroradiol.* 35, 2388-96.

9. Weinstein, M., Ben Bashat, D., Gross-Tsur, V., Leitner, Y., Berger, I., Marom, R., Geva, R., Uliel, S., Ben-Sira, L., 2014a. Isolated mild white matter signal changes in preterm infants: a regional approach for comparison of cranial ultrasound and MRI findings. *J Perinatol*.
10. Weinstein*, M., Green*, D., Geva, R., Schertz, M., Fattal-Valevski, A., Artzi, M., Myers, V., Shiran, S., Gordon, A.M., Gross-Tsur, V., Bashat, D.B., 2014b. Interhemispheric and intrahemispheric connectivity and manual skills in children with unilateral cerebral palsy. *Brain Struct Funct*. 219, 1025-40.
*Equal contributors
11. Weinstein, M., Marom, R., Berger, I., Ben Bashat, D., Gross-Tsur, V., Ben-Sira, L., Artzi, M., Uliel, S., Leitner, Y., Geva, R., 2014c. Neonatal neuropsychology: emerging relations of neonatal sensory-motor responses to white matter integrity. *Neuropsychologia*. 62, 209-19.
12. Zachor, D.A., Curatolo, P., Participants of Italian-Israeli Consensus*, C., 2014. Recommendations for early diagnosis and intervention in autism spectrum disorders: an Italian-Israeli consensus conference. *Eur J Paediatr Neurol*. 18, 107-18.
* Vig A, Benvenuto A, Battan B, Manzi B, Eytan D, Eldar E, Cherubini E, Muratori F, Meiri G, Vivanti G, Dinstein I, Gialloreti LE, Gabis L, Elia M, Weinstein M, Bauminger N, Stolar O, Ovadia-Yampolsky R, Militerni R, Shifman S, Shachar SB.
13. Green, D., Schertz, M., Gordon, A.M., Moore, A., Schejter Margalit, T., Farquharson, Y., Ben Bashat, D., Weinstein, M., Lin, J.P., Fattal-Valevski, A., 2013. A multi-site study of functional outcomes following a themed approach to hand-arm bimanual intensive therapy for children with hemiplegia. *Dev Med Child Neurol*. 55, 527-33.

14. Weinstein, M., Ben-Sira, L., Levy, Y., Zachor, D.A., Ben Itzhak, E., Artzi, M., Tarrasch, R., Eksteine, P.M., Hendler, T., Ben Bashat, D., 2011. Abnormal white matter integrity in young children with autism. *Hum Brain Mapp.* 32, 534-43.
15. Nossek, E., Korn, A., Shaha, T., Kanner, A.A., Yaffe, H., Marcovici, D., Ben-Harosh, C., Ben Ami, H., Weinstein, M., Shapira-Lichter, I., Constantini, S., Hendler, T., Ram, Z., 2011. Intraoperative mapping and monitoring of the corticospinal tracts with neurophysiological assessment and 3-dimensional ultrasonography-based navigation. Clinical article. *J Neurosurg.* 114, 738-46.
16. Artzi, M., Ben Sira, L., Bassan, H., Gross-Tsur, V., Berger, I., Marom, R., Leitner, Y., Bental, Y., Shiff, Y., Geva, R., Weinstein, M., Ben Bashat, D., 2011. Brain Diffusivity in Infants With Hypoxic-Ischemic Encephalopathy Following Whole Body Hypothermia: Preliminary Results. *Journal of Child Neurology.* 26, 1230-1236.
17. Hochstein, S., Barlasov, A., & Weinstein, M. (2005). Illusory shape pop out: Effects of perceptual learning [Abstract]. *Journal of Vision*, 5(8):572.

PAPERS PRESENTED AT SCIENTIFIC CONFERENCES

1. Rehab Science & Technology Update (RSTU): Tel Aviv Feb 7-10, 2016. Lecture in Didactic Track: "Brain Plasticity in Children with Hemiplegia: What Can We Learn from Structural and Functional MRI Parameters".
2. International Conference of Psychological Science (ICPS): Amsterdam, 12-14 March 2015. Lecture in symposium: "Motion perception and motor organization: insights from infants born preterm,"
3. Italian-Israeli Consensus Conference: Jerusalem Apr-25 2013
Lecture: "Altered brain connectivity and ASD".
4. Society for Research in Child Development 2013 Biennial Meeting- Seattle, Washington Apr.18-20 2013. Poster: "White Matter Integrity as Predictor of Neonatal Behavioral Performance in Preterms".

5. Student Researchers Conference- Department of Psychology- Bar Ilan University
March 6 2013 Lecture: "The relationship of advanced brain imaging and motor behavior in children with Hemiplegia". *Received best lecture award.
6. Gonda Brain Research Center Young Researchers Conference- Kfar Giladi Feb. 18-20 2013 Lecture: "White Matter Tract Integrity and Its Relation to Neuro-behavioral Performance of Low Risk Preterm Neonates".
7. Child Development and Rehabilitation Conference: Nov. 21-22 2012. Dead Sea
Poster: "White Matter Integrity as Predictor of Neonatal Behavioral Performance in Preterms".
8. Organization of Human Brain Mapping (OHBM) 2012- Beijing China June 10-14 2012. Poster: "The Corpus Callosum and its relation to Motor Function in Children with Hemiplegic Cerebral Palsy".
9. Student Researchers Conference- Department of Psychology- Bar Ilan University
March 4 2012. Lecture: "Neuro-developmental Outcome in Preterm infants with Mild White Matter Abnormalities". *Received best lecture award.
10. Gonda Brain Research Center Young Researchers Conference- Kfar Giladi Feb. 27-29 2012. Poster: "The Corpus Callosum and its relation to Motor Function in Children with Hemiplegic Cerebral Palsy".
11. Annual Meeting of Biological-Psychiatry Foundation- HaGoshrim Kibutz March 29-31 2011. Lecture:" DTI study of young children with autism: whole brain comparison and correlation with behavior".
12. The 13 Annual Meeting of Biological-Psychiatry Foundation- HaGoshrim Kibutz
March 3-5 2009. Poster: "A DTI tractography study of young children with autism".
13. Israeli Neuropsychology Conference - Tel Aviv-Jaffa February 26, 2009. Lecture: "A DTI tractography study of young children with autism".
14. The Israel Society for Neuroscience 17th Annual Meeting Eilat, Dec. 7-9, 2008.
Lecture: "A DTI tractography study of young children with autism".
15. 4th Annual Meeting Israeli Human Brain Mapping in Tel Aviv. 13 – 14 July, 2008.
Poster: "A DTI tractography study of young children with autism".

16. International Meeting for Autism Research: London May 15-17,2008. Poster: "A DTI tractography study of young children with autism".

TRAVEL AWARDS:

International Convention for Psychological Science (ICPS)- Amsterdam, March 2015