

Date: October 28, 2018

TECHNION – RUTH & BRUCE RAPPAPORT FACULTY OF MEDICINE
RESUME (for physicians only)

1. PERSONAL DETAILS

Full Name: Abraham Peled
Identification number: 55691349
Date and place of birth: April 22, 1959; Haifa, Israel
Marital status: married
Tel.: +972-52-2844050
Email: neuroanalysis@gmail.com

2. ACADEMIC DEGREES

1988 MD. University of Rome, La Sapienza, Italy

3. ACADEMIC APPOINTMENTS

2014- Assistant Clinical Professor, Rappaport Faculty of Medicine, Technion – Israel
Institute of Technology, Haifa, Israel
2011 Senior Clinical Lecturer, Rappaport Faculty of Medicine, Technion – Israel
Institute of Technology, Haifa, Israel
2005 Clinical Lecturer, Rappaport Faculty of Medicine, Technion – Israel Institute of
Technology, Haifa, Israel
2003 Clinical Instructor, Rappaport Faculty of Medicine, Technion – Israel Institute of
Technology, Haifa, Israel
1995 Clinical Instructor, Rappaport Faculty of Medicine, Technion – Israel Institute of
Technology, Haifa, Israel

4. PROFESSIONAL EXPERIENCE

2016 - Department Head, Forensic Psychiatry Dept, Maximum Security Unit,
Sha'ar Menashe Mental Health
2009 to 2016 Department Head, Closed Ward Unit, Sha'ar Menashe Mental Health
Center, Sha'ar Menashe, Israel
2009 Department Head, Rehabilitation Department III, Sha'ar Menashe
Mental Health Center, Sha'ar Menashe, Israel
1998 Post-Doctorate, UC Davis Medical Center, Sacramento, California, USA

- 1998 Department Head, Forensic Department IV, Sha'ar Menashe Mental Health Center, Sha'ar Menashe, Israel
- 1996 EEG laboratory set-up, Napa Research Program, Napa State Hospital, California, USA
- 1995 Senior psychiatrist, Department of Psychiatry, Rambam Medical Center, Haifa, Israel
- 1995 Board certificate license #14656: Psychiatry
- 1990 Psychiatric Resident, Department of Psychiatry, Rambam Medical Center, Haifa, Israel
- 1990 Board certificate license #24977: General Practitioner
- 1989 Board certificate pre-internship foreign medical degree

5. RESEARCH INTERESTS

1. Application of complex-systems theories and neural-computation to psychiatric diagnosis.
2. TMS and cognitive enhancement for the treatment of schizophrenia.
3. VR applications for psychiatric diagnosis and EEG signal analysis for schizophrenia research.

6. TEACHING EXPERIENCE

Courses

- 2014-2016 Head of Residency committee Sha'ar Menashe Mental Health Center, Sha'ar Menashe, Israel
- 2008 – 2009 Psychiatry Course, graduate student occupational therapists, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel
- 2007 Psychiatry Course, Nursing School, Emek Medical Center, Afula, Israel
- 2006 – 2008 Continuous education, professional nurses, Sha'ar Menashe Mental Health Center, Pardes Hanna, Israel
- 2003 – 2005 Integrative course, pre-clinical program medical students, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel
- 1993 – 1996 Psychiatry course, board qualification immigrant (USSR) medical doctors, Psychiatric Department, Rambam Medical Center, Haifa, Israel

1993 – 1996 Psychiatry course, Nursing School, Rambam Medical Center, Haifa, Israel

Clerkships

2006 - 2016 Head, Clerkship Program, Sha’ar Menashe Mental Health Center, Sha’ar Menashe, Israel

1998 to present Teaching Psychiatry Clerkship, medical students, Sha’ar Menashe Mental Health Center, Sha’ar Menashe, Israel

1994 – 1996 Psychiatry Clerkship, Department of Psychiatry, Rambam Medical Center, Haifa, Israel

7. TECHNION ACTIVITIES

1998 to present Teaching Psychiatry Clerkship, medical students, Sha’ar Menashe Mental Health Center, Sha’ar Menashe, Israel

8. FACULTY ACTIVITIES

1998 to present Teaching Psychiatry Clerkship, medical students, Sha’ar Menashe Mental Health Center, Sha’ar Menashe, Israel

9. PUBLIC PROFESSIONAL ACTIVITIES

2012 Founder, NeuroAnalysis Institute, Sha’ar Menashe Mental Health Center, Sha’ar Menashe, Israel

2011 December 18th IBT (Israel brain technologies) meeting with President Shimon Peres

2005 – 2008 Annual Popular Lectures in Neuroscience, Gesher Program

2005 – 2006 Lectures, “Brain Week” public talks at public schools in Ort Shomron and Or Akiva

10. MEMBERSHIP IN PROFESSIONAL SOCIETIES

NATIONAL

Israel Medical Association
Israel Neuroscience Association
Israel Psychiatric Association
Israel Society of Biological Psychiatry
Israel Society of Forensic Psychiatry

12. GRADUATE STUDENTS

PhD AND MSC

COMPLETED

- 2016 TRON T. Non-verbal assessment of mental status examination in patients with Schizophrenia: Part 2 Motor behavioral assessments using wearable sensors.
Weinshall D, **Peled A.**
- 2014 Tron T. Part 1- Face voice recognition for computerized mental status examination, Weinshall D, **Peled A**
- 2012 Maxomov T. Gestures and schizophrenia. Co-supervisors: Lavodor M, **Peled A**
- 2011 Weltman K. Hemispheric interaction during semantic processing in schizophrenia, Co-supervisors: Lavodor M, **Peled A**
- 2007 Sorkin A. Virtual reality for diagnosis of schizophrenia, Co-supervisors: Weinshall D, **Peled A**
- 2008 Levit-Binnun N. TMS-EEG for schizophrenia treatment, Co-supervisors: Elisha M, **Peled A**
- 2005 Bismoot A. EEG during cognitive tasks in schizophrenia, Co-supervisors: Geva BA, **Peled A**
- 2004 Fromovich M. McGurk effect: an audio visual integration in schizophrenia compared with normal subjects, Co-supervisors: **Peled A**, Modai I
- 2002 Pressman A. Synchronization of neural networks during working memory task in schizophrenia: an EEG study, Co-supervisors: Geva BA, **Peled A**

MD Theses

COMPLETED

- 2016 **Bezmin M.** At-rest Repeated EEG measurements during length of hospitalizations.
Basic science supervision in collaboration with Computational Psychiatry Lab Ben
Gurion University of the Negev Beer-Sheva. Peled A.
- 2010 Nacshon Y. Semantic network in schizophrenia (additional study), Supervisor:
Peled A.
- 2003 Alon E. Multiple constraint organization of semantic networks in schizophrenia,
Co-supervisors: Peled A, Modai I.
- 2000 Netzer I. Semantic networks in schizophrenia, Co-supervisors: Peled A, Modai I.

14. PUBLICATIONS

14.1 Theses

- 1988 Vascular Aneurysms in Visceral Arteries. Department of Vascular Surgery,
University of Rome, Italy

14.2 Refereed papers in professional journals

BASIC RESEARCH

BASIC RESEARCH IN PREPARATION

BASIC RESEARCH SUBMITTED

BASIC RESEARCH ACCEPTED

BASIC RESEARCH PUBLISHED

1. Geva AB, **Peled A**. Simulation of cognitive disturbances by a dynamic threshold neural network model. *Journal of International Neuropsychology* 2000 Jul; 6(5):608-619.
2. **Peled A**, Geva AB. The perception of Rorschach inkblots in schizophrenia: a neural network model. *International Journal of Neuroscience* 2000 Sep-Oct; 104(1-4):49-61.
3. **Peled A**, Ritsner M, Hirschmann S, Geva AB, Modai I. Touch-feel illusion in schizophrenic patients. *Biological Psychiatry* 2000 Dec 1; 48(11):1105-1108.
4. **Peled A**, Geva AB, Kremen WS, Blankfeld HM, Esfandiari R, Nordahl TE. Functional connectivity and working memory in schizophrenia: an EEG study. *International Journal of Neuroscience* 2001 Jan; 106(1-2):47-61.
5. Hiemke C, **Peled A**, Jabarin M, Hadjez J, Weigmann H, Hartter S, Modai I, Ritsner M, Silver H. Fluvoxamine augmentation of olanzapine in chronic schizophrenia: pharmacokinetic interactions and clinical effects. *Journal of Clinical Psychopharmacology* 2002 Oct; 22(5):502-506.
6. Ku J, Cho W, Kim JJ, **Peled A**, Wiederhold BK, Wiederhold MD, Kim IY, Lee JH, Kim SI. A virtual environment for investigating schizophrenic patients' characteristics: assessment of cognitive and navigation ability. *Cyberpsychology Behaviour* 2003 Aug; 6(4):397-404.
7. **Peled A**, Pressman A, Geva AB, Modai I. Somatosensory evoked potentials during a rubber hand illusion in schizophrenia. *Schizophrenia Research* 2003 Nov 15; 64(2-3):157-163.
8. Sorkin A, **Peled A**, Weinshall D. Virtual reality testing of multi-modal integration in schizophrenic patients. *Stud Health Technol Inform.* 2005; 111:508-514.
9. **Peled A**, Netzer I, Modai I. Rating textual associations in organized and non-organized sentences for the assessment of semantic networks in schizophrenia. *Comprehensive Psychiatry* 2005 May-Jun; 46(3):176-180.
10. Sorkin A, Weinshall D, Modai I, **Peled A**. Improving the accuracy of the diagnosis of schizophrenia by means of virtual reality. *American Journal of Psychiatry* Mar 2006; 163:3.

11. Barkan T, **Peled A**, Modai I, Weizmann A, Rehavi M. Characterization of the serotonin transporter in lymphocytes and platelets of schizophrenia patients treated with atypical or typical antipsychotics compared to healthy individuals *Eur Neuropsychopharmacol*. 2006 Jan 19; 16(6) 429-36.
12. Barkan T, **Peled A**, Modai I, Peretz B, Weizmann A, Rehavi M. Characterization of the serotonin transporter in lymphocytes and platelets of aggressive schizophrenia patients compared to non-aggressive schizophrenia patients. *European Neuropsychopharmacology* 2006 May 17; 16(8) 572-9
13. Levit-Binnun N, Handzi N, **Peled A**, Modai I, Moses E. Transcranial magnetic stimulation in a finger-tapping task separates motor from timing mechanisms and induces frequency doubling. *Journal of Cognitive Neuroscience* 2007 May; 19(5):721-733.
14. Levit-Binnun N, Nestor H, Moses E, Modai I, **Peled A**. Transcranial magnetic stimulation at M1 disrupts cognitive networks in schizophrenia. *Schizophrenia Research* 2007 Jul; 93(1-3):334-344. Epub 2007 Apr 12.
15. Sorkin A, Weinshall D, **Peled A**. The distortion of reality perception in schizophrenia patients, as measured in virtual reality. *Stud Health Technol Inform*. 2008; 132:475-480.
16. Levit-Binnun N, Litvak V, Pratt H, Moses E, Zaroor M, **Peled A**. Differences in TMS-evoked responses between schizophrenia patients and healthy controls can be observed without a dedicated EEG system. *Clinical Neurophysiology* 2010 Mar; 121(3):332-339.
17. Fogelson N, Ribolsi M, Fernandez-Del-Olmo M, Rubino IA, Romeo D, Koch G, **Peled A**. Neural correlates of local contextual processing deficits in schizophrenic patients. *Psychophysiology* 2011 Sep; 48(9):1217-1226.
18. Fogelson N, Li L, Li Y, Fernandez-Del-Olmo M, Santos-Garcia D, **Peled A**. Functional connectivity abnormalities during contextual processing in schizophrenia and in Parkinson's disease. *Brain Cogn*. 2013 Aug; 82(3):243-253.
19. Arzouan Y, Moses E, **Peled A**, Levit-Binnun N. Impaired network stability in schizophrenia revealed by TMS perturbations. *Schizophrenia Research* 2014 Jan; 152(1):322-324.

20. Fogelson N, **Peled A**, Marmor S, Fernandez-Del-Olmo M, Klein E. Local contextual processing in major depressive disorder. *Clin Neurophysiol.* 2014; 125(3):476-483.
21. Fogelson N, Litvak V, **Peled A**, Fernandez-Del-Olmo M, Friston K. The functional anatomy of schizophrenia: a dynamic causal modeling study of predictive coding. *Schizophr Res.* 2014 Jul 206:011
22. Dvey-Aharon Z, Fogelson N, **Peled A**, Intrator N. Schizophrenia detection and classification by advanced analysis of EEG recordings using a single electrode approach. *PLoS One.* 2015 Apr 2;10(4)
23. Tron T, **Peled A**, Grinsphoon A, Weinshall D. Automated Facial Expressions Analysis in Schizophrenia: a Continuous Dynamic Approach. *MindCare*, Sept 2015 .
24. Tron T, **Peled A**, Grinsphoon A, Weinshall D. Differentiating facial incongruity and flatness in schizophrenia, using structured light camera data. *Conf Proc IEEE Eng Med Biol Soc.* 2016 Aug;2016:2427-2430.
25. Sauer A, Zeev-Wolf M, Grent-'t-Jong T, Recasens M, Wacongne C, Wibrat M, Helbling S, **Peled A**, Grinsphoon A, Singer W, Goldstein A, Uhlhaas PJ. Impairment in predictive processes during auditory mismatch negativity in ScZ: Evidence from event-related fields. *Hum Brain Mapp.* 2017 Jul 5
26. Katz R, **Peled A**, Grinsphoon A. Development of Technology for Assisting Violent Psychiatric Patients. *Stud Health Technol Inform.* 2017;242:389-395.
27. Rubinson M, Levit-Binnun N, **Peled A**, Naim-Feil J, Freche D, Moses E. Hierarchy measurement for modeling network dynamics under directed attacks. *Phys Rev E.* 2017 Nov;96(5-1)
28. Dvey-Aharon Z, Fogelson N, **Peled A**, Intrator N. Connectivity maps based analysis of EEG for the advanced diagnosis of schizophrenia attributes. [PLoS One.](#) 2017 Oct 19;12(10):e0185852.
29. Naim-Feil J, Rubinson M, Freche D, Grinsphoon A, **Peled A**, Moses E, Levit-Binnun N. Altered Brain Network Dynamics in Schizophrenia: A Cognitive Electroencephalography Study. *Biol Psychiatry Cogn Neurosci Neuroimaging.* 2018 Jan;3(1):88-98
30. Freche D, Naim-Feil J, **Peled A**, Levit-Binnun N, Moses E. A quantitative physical model of the TMS-induced discharge artifacts in EEG. *PLoS Comput Biol.* 2018 Jul 17;14(7):e1006177

31. Zeev-Wolf M, Levy J, Jahshan C, **Peled A**, Levkovitz Y, Grinshpoon A, Goldstein A. MEG resting-state oscillations and their relationship to clinical symptoms in schizophrenia. *Neuroimage Clin.* 2018 Sep 17;20:753-761

REVIEW PAPERS

1. **Peled A**, Geva AB. Brain organization and psychodynamics. *J Psychotherapy Practice and Research* 1999 Winter; 8(1):24-39.
2. **Peled A**. Multiple constraint organization in the brain: a theory for serious mental disorders. *Brain Research Bulletin* 1999; 49:245-250.
3. **Peled A**. A new diagnostic system for psychiatry. *Medical Hypothesis* 2000; 54(3): 367-380.
4. **Peled A**. From plasticity to complexity. A new diagnostic method for psychiatry. *Med Hypotheses* 2004; 63(1):110-114.
5. **Peled A**. Plasticity imbalance in mental disorders the neuroscience of psychiatry: Implications for diagnosis and research. *Medical Hypothesis* 2005 July 1; 65(5)947
6. **Peled A**. Brain profiling and clinical neuroscience. *Medical Hypothesis* 2006; 67:941-946.
7. **Peled A**. Neuroscientific psychiatric diagnoses. *Medical Hypothesis* 2009; 73:220-229.
8. **Peled A**. The paradigm shift for psychiatry is already here! *AAP&P* 2010; 2(3)17:51.
9. **Peled A**. The neurophysics of psychiatric diagnosis: Clinical brain profiling. *Med Hypotheses* 2010 Jan;76(1):34-49
10. **Peled A**. Optogenetic neuronal control in schizophrenia. *Med Hypotheses* 2011 Jun,76(6):914-21
11. **Peled A**. NeuroAnalysis: A Method for brain-related neuroscientific diagnosis of mental disorders. *Med Hypotheses* 2012 May; 78(5):636-640.

12. **Peled A.** Personality disorders disturbances of the physical brain. *Med Hypotheses* 2012 Oct;79(4):487-92
13. **Peled A.** Connectivity cognition and psychosis in the physical brain. *Functional Neurology, Rehabilitation and Ergonomics* 2012; 2(3) Nova Pub NY.
14. **Peled A.** Brain “globalopathies” cause mental disorders. *Med Hypotheses* 2013 Dec;81(6):1046-55
15. **Peled A, Geva A.** Clinical brain profiling: a neuroscientific diagnostic approach for mental disorders. *Med Hypotheses* 2014 Aug 8. pii: S0306-9877.

14.3 BOOKS

Peled A. Brain dynamics and mental disorders, a project for a scientific psychiatry. Yozmot Heiliger 2004.

1. **Peled A, Brand D.** Optimizers 2050. Saga Books 2005.
2. **Peled A.** NeuroAnalysis, Bridging the gap between neuroscience psychoanalysis and psychiatry: Psychology Press; Routledge; July 2008 Europe, September 2008 USA.
3. **Peled A.** Mental disorders explained and cured: a new psychiatry called NeuroAnalysis. Amazon 2012.

14.4 BOOK CHAPTERS

Peled A. Functional connectivity and EEG. In: V Ng, GJ Barker and T Hendler (eds.), *Psychiatric Neuroimaging*, IOS Press, 2003, 264 pp.

14.5 Letters to the Editor

Book Reviews

1. Brain dynamics and mental disorders, a project for a scientific psychiatry. Yozmot Heiliger 2004. Reviewed for the *American J Psychiatry* 162:1396-1397, July 2005 by David V Forrest MD.

Patents

- 2001 **Peled A.** Virtual experience plasticity: a therapy for schizophrenia. Disclosure document NO: 487750, US PTO.

- 2003 **Peled A.** Evaluation of mental functions (EMF) using virtual reality technology. PCT/IL NO: 02/00858.

14.6 Refereed papers in conference proceedings

2. Tron T, **Peled A**, Grinsphoon A, Weinshall D. Facial Expressions and Flat Affect in Schizophrenia, Automatic Analysis from Depth Camera Data .Proceedings: IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), pp. 220-223, Feb 2016.
3. Tron T, **Peled A**, Grinsphoon A, Weinshall, D. Differentiating Facial Incongruity and Flatness in Schizophrenia using Structured Light Camera Data. Proceedings: IEEE Annual International Conference of the Engineering in Medicine and Biology Society (EMBC), Aug 2016.
4. Pressman A, **Peled A**, Geva AB. Synchronization analysis of multi-channel EEG of schizophrenic during working memory task. IEEE Proceedings of the 21st Convention of the Electronics Engineering in Israel. Tel Aviv, Israel, April 2000, pp. 337-341.
5. Hirschmann S, Lamstein C, **Peled A**, Ritsner M, Modai I. Prolonged time lapse in repeated rubber hand illusion in schizophrenia. Supplement Israel Journal of Psychiatry 2000 138:18.
6. Geva AB, **Peled A**. A dynamic threshold neural network for modeling interference in a sequence of associative memories. 1996 Proceedings of IEEE International Conference on System, Man and Cybernetics, Beijing, China, October 1996, vol. 2, pp. 1309-1314.

15. CONFERENCES

15.1 Plenary, keynote or invited talks

INTERNATIONAL

1. Concept formation in schizophrenia. Research Luncheon, UC Davis, Sacramento California, USA, March 5, 1997.
2. System theory and psychiatry. Continuing Medical Education Program, Napa Psychiatric State Hospital, California, USA, July 11, 1997.
3. Cortical connectivity in schizophrenia. Research Lunch, UC Davis, Sacramento California, USA, June 3, 1998.

4. System theory and schizophrenia. Department of Biomedical Engineering, Hanyang University, Seoul, South Korea, March 2, 2002.
5. System theory and schizophrenia. 4th Annual Meeting of the South Korea Association for Anxiety Disorders, Seoul, South Korea, March 2002.
6. Neural-computation and psychophysics deficits in schizophrenia. New Understanding of Schizophrenia Congress, Seoul, South Korea, March 5, 2002.
7. Functional connectivity and EEG. Psychiatric Neuroimaging; Nato Advanced Research Workshop, Chivari, Italy, September 29-October 2, 2002.
8. Complexity science and new diagnosis for psychiatry. Karolinska Institute, Stockholm, Sweden, September, 2004.
9. Virtual reality in psychiatry. European FET (future emergent technologies) project "Precencia." 5th and 6th Annual Meetings of the Wellcom Institute of Neurology, London, UK, December 2004.
10. System theory applications to mental disorders. 7th Annual Meeting of the Wellcom Institute of Neurology, London, UK, December 2004.
11. Sydney University Brain Research Company (BRC) Seminar. Sydney, Australia, September 15, 2006.
12. Sydney University Department of Psychology. Sydney, Australia, September 15, 2006.
13. NeuroAnalysis: bridging the gap between neuroscience psychoanalysis and psychiatry. Stony Brook Hospital, NY, USA, June 12, 2008.
14. NeuroAnalysis: bridging the gap between neuroscience psychoanalysis and psychiatry. Mount Sinai Hospital, NY, USA, June 12 2008.
15. NeuroAnalysis: bridging the gap between neuroscience psychoanalysis and psychiatry. Metropolitan Hospital, NY, USA, June 13, 2008.
16. NeuroAnalysis: bridging the gap between neuroscience psychoanalysis and psychiatry. University of California, Davis Medical Center, California, USA, June 16, 2008.
17. NeuroAnalysis: bridging the gap between neuroscience psychoanalysis and psychiatry. University of California, Los Angeles Psychoanalysis Study Group, California, USA, June 19, 2008.
18. NeuroAnalysis. University of California, Irvin, California, USA, October 14, 2008.

19. NeuroAnalysis. Symposium Day, Sha'ar Menashe Mental Health Center Pardes Hanna, Israel, December 17, 2008.
20. NeuroAnalysis. Biopsychology, Tel Aviv University, Israel, April 21, 2009.
21. NeuroAnalysis. Interdisciplinary Center, Herzelia, Israel, May 3, 2009.
22. Clinical brain profiling: a future brain-related psychiatric diagnosis. Wellcom Institute of Neurology, Neuroscience Lab, London, UK, October 19, 2010.
23. Clinical brain profiling: a future brain-related psychiatric diagnosis. IOP Institute of Psychiatry, London, UK, October 20, 2010.
24. Clinical brain profiling: a future brain-related psychiatric diagnosis. East England Psychiatry Meeting, Cambridge Adenbrook Hospital, UK, October 22, 2010.
25. NeuroAnalysis psychiatric diagnosis IOP Institute of Psychiatry, London, UK, May 2011.
26. NeuroAnalysis psychiatric diagnosis, Queen Mary University, London, UK, May 2011.
27. Multimodal brain organization and mental disorders. University of Liverpool, UK, October 2011.
28. Clinical brain profiling. Psychiatric Department, Manchester, UK, October 2011.
29. NeuroAnalysis: future psychiatric diagnosis. NHS UK, Liverpool UK, March 20, 2012.
30. NeuroAnalysis: future psychiatric diagnosis. University of Sheffield, UK, March 21, 2012.
31. NeuroAnalysis: is the future of psychiatric diagnosis already here, Meeting Fano, Italy, March 30, 2012.
32. Neuroscientific psychiatry. Stanford, October 16, 2012.
33. Neuroscientific psychiatry. IAFN Phoenix meeting, Phoenix October 25, 2012.
34. Clinical brain profiling. Liverpool NHS, UK, April 2014.
35. Clinical Brain Profiling: A novel brain-related psychiatric diagnosis. UCD IRC January 21, 2015
36. Clinical Brain Profiling: A novel brain-related psychiatric diagnosis. Leanne Williams Pan lab Stanford January 22, 2015
37. Clinical Brain Profiling: A novel brain-related psychiatric diagnosis. Redwood Center for Theoretical Neuroscience January 26, 2015 Clinical Brain Profiling: A novel

brain-related psychiatric diagnosis Etkins lab Palo Alto VA Stanford January 30, 2015

38. Clinical Brain Profiling. Verily (GoogleX) Googleflex Palo alto Tom Insel Group February 2016
39. Brain Brofiler app Wellcom Institute of Neurology, Neuroscience Lab, London, UK, November 17, 2016.

NATIONAL

1. Brain research and psychotherapy reconciled. Emek Medical Center, Afula, Israel, November 3, 1999.
2. Brain research and system theory approach to schizophrenia research. Rambam Medical Center, Haifa, Israel, January 6, 1999
3. Brain research and system theory approach to schizophrenia research. Flugelman Mental Health Center, Aco May 23, 2000.
4. Schizophrenia a disorder of neural-computation: curing the incurable. The Neuralcomputation Brain Seminars. Hebrew University of Jerusalem, Israel, December 27, 2001.
5. Virtual reality in psychiatry. Society of Psychotherapy and Feedback Therapy. Tel-Hashomer Medical Center, Ramat Gan, Israel, August 28, 2003.
6. System theories and psychiatry. Emek Medical Center, Afula, Israel, February 2004.
7. New diagnosis for psychiatry. Staff meeting. Psychiatry Department, Sheba Medical Center, Ramat Gan, Israel, June 2004.
8. NeuroAnalysis psychiatric diagnosis. Israel Society for Neurofeedback, Tel Aviv April 2011.

15.2 Contributed Talks and Posters

1. **Peled A**, Geva AB. Schizophrenia: a neural computation model. Second Meeting of the Israeli Society of Neuroscience, Eilat, Israel, December 1993.
2. **Peled A**, Geva AB. Neural networks and schizophrenia. Second Meeting of the Israeli Society of Biological Psychiatry, Tiberia, Israel, April 1994.

3. **Peled A**, Geva AB. A dynamic neural network model to correlate synaptic modulation with thought disorders in schizophrenia. Second Annual Meeting of the Israeli Society of Biological Psychiatry, Kfar Giladi, Israel, March 1995.
4. **Peled A**, Geva AB. A dynamic neural network model to correlate synaptic modulation with thought disorders in schizophrenia. Cortical Dynamics in Jerusalem International Conference of Neural Computation, Jerusalem, Israel, June 1995.
5. **Peled A**, Geva AB. Dynamic neural network model to correlate synaptic modulation with thought disorders in schizophrenia. 22nd International Conference on New Directions in Affective Disorders, Jerusalem, Israel, September 1995.
6. **Peled A**, Geva AB. Schizophrenia: pathological responses to Rorschach test. A neural network model. 4th Meeting of the Israeli Society of Neuroscience, Eilat, Israel, December 1995.
7. **Peled A**. A unifying theory for psychiatry. 6th Annual Meeting of the Israeli Society of Biological Psychiatry, Kfar Giladi, Israel, March 1999.
8. Peled A, Geva AB. Disorders of concept formation in schizophrenia: a neural network model. 52nd Annual Scientific Meeting & Convention of the Society of Biological Psychiatry, San Diego CA, USA, May 1997.
9. **Peled A**, Geva AB, Kremen WS, Blankfeld HW, Hoff AL, Esfandiarfard R, Espinoza S, Nordahl TE. Functional connectivity and working memory: an EEG study. Annual Meeting of the Cognitive Neuroscience Society, San Francisco, USA, April 1998.
10. **Peled A**, Kremen WS, Geva AB. Correlation analysis of EEG from schizophrenic patients performing a working memory task. Israel Society for Neuroscience, Eilat, Israel, December 1998.
11. **Peled A**, Geva AB, William S. Kremen HM. Blankfeld A, Hoff L, Esfandiarfard R, Espinoza S. Nordahl TE. Functional connectivity and working memory in schizophrenia: an EEG study. Biennial Meeting International Congress on Schizophrenia Research, Santa Fe, New Mexico, April 17-21, 1999.
12. **Peled A**, Geva AB. EEG study in schizophrenia. 6th Annual Meeting of the Israeli Society of Biological Psychiatry, Kfar Giladi, Israel, March 1999.
13. **Peled A**. Multiple constraint satisfaction: a theory for psychiatry. XI World Congress of Psychiatry, Hamburg, Germany, August 11-6 1999.

14. **Peled A**, Geva AB. Nonlinear dynamics and pathological Rorschach responses. 3rd Annual Meeting of the Israeli Society of Biological Psychiatry. Kfar Giladi, Israel, March 1996.
15. **Peled A**, Geva AB. A neural network model for PTSD: a disease of enhanced connectivity and impaired habituation in neural assemblies of the hippocampus. Oholoh Conference on Stress and Anxiety, Zichron Yacov, Israel, March 1996.
16. **Peled A**, Geva AB. A dynamic threshold neural network model for thought disorders in schizophrenia. International Congress on Schizophrenia Research, Colorado Springs, USA, April 1997.
17. **Peled A**, Ritsner M, Hirshman S, Geva AB, Modai I. Context and proprioception in schizophrenia: a rubber hand touch-feel illusion. 9th Meeting of the Israel Society for Neuroscience, Eilat, Israel, November 1999.
18. **Peled A**, Ritsner M, Hirschman S, Geva AB, Modai I. Context and proprioception in schizophrenia: a rubber hand touch-feel illusion. 10th Congress of the Israeli Psychiatric Association, Jerusalem, Israel, April 2000.
19. **Pressman A**, **Peled A**, Geva AB. Synchronization analysis of multi-channel EEG of schizophrenic during working-memory tasks. 21st IEEE Convention of the Electrical and Electronic Engineers in Israel, Tel Aviv, Israel, April 11-12, 2000.
20. **Pressman A**, **Peled A**, Geva AB. Touch-feel illusion, multi-channel EEG analysis. 10th Meeting of the Israel Society for Neuroscience, Eilat, Israel, November 2000.
21. **Peled A**, Pressman A, Geva AB, Modai I. The rubber hand illusion in schizophrenia; an EEG study. 6th Annual Meeting of the Israeli Society of Biological Psychiatry, Kfar Giladi, Israel, March 2001.
22. **Hirschmann S**, Lamschtein C, **Peled A**, Ritsner M, Modai I. Prolonged time lapse in repeated rubber hand illusion in schizophrenia. Annual Meeting of the American Psychiatric Association, New Orleans, Louisiana, USA, May 5-10, 2001.
23. **Peled A**, Netzer I, Modai I. Rating textual associations in organized and non-organized sentences for the assessment of semantic networks in schizophrenia. Annual Meeting of the American Psychiatric Association, New Orleans, Louisiana, USA, May 5-10 2001.
24. **Peled A**, Alon E, Ben Avi I, Modai I. Multiple constraint organization in semantic networks of schizophrenic patients. WCBP World Congress of Biological Psychiatry, Berlin, Germany, July 2001.

25. **Peled A**, Pressman A, Geva AB, Modai I. The rubber hand illusion in schizophrenia: an EEG study. WPA World Psychiatric Association, Madrid, Spain, September 2001.
26. **Peled A**. Neuroscience the science for psychiatry. 11th Meeting of the Israel Society for Neuroscience, Eilat, Israel, December 2002.
27. **Sorkin A**, **Peled A**, Weinshel D. Virtual reality and schizophrenia. 13th Meeting of the Israel Society for Neuroscience, Eilat, Israel, December 2003.
28. **Fromivich M**, **Peled A**, McGurk effect in schizophrenia. 13th Meeting of the Israel Society for Neuroscience, Eilat, Israel, December 2003.
29. **Peled A**. Plasticity and complexity: a neuroscience model for Psychiatry. 14th Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel, November 2004.
30. **Levit-Binnun N**, **Peled A**, Moses E. Probing synchronous internal processes by precisely controlled transcranial magnetic stimulation. 14th Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel, November 2004.
31. **Levit-Binnun N**, **Peled A**, Modai I. Moses E. To “close the loop” between measurement and perturbation – first steps toward a “brain pacemaker.” 14th Annual Meeting of the Israeli Society for Neuroscience, Eilat, November 2004.
32. **Levit-Binnun N**, **Peled A**, Modai I. Moses E. Coupling TMS with EEG brain pacemaker. 10th Annual Meeting of the Israeli Society of Biological Psychiatry, Hagoshrim, Israel, March 2005.
33. **Nestor H**, Levit-Binnun N, **Peled A**, Modai I. Moses E. Transcranial magnetic stimulation at M1 disrupts relations in schizophrenia patients. 10th Annual Meeting Israeli Society of Biological Psychiatry, Hagoshrim, Israel, March 2005.
34. **Barkan T**, **Peled A**, Modai I, Barak P, Weizman A, Rehavi M. Characterization of the serotonin transporter in lymphocytes and platelets of male aggressive schizophrenia patients compared to non-aggressive schizophrenia patients. 10th Meeting of the Israel Society for Biological Psychiatry, Hagoshrim, Israel, March 21-23, 2006.
35. **Barkan T**, **Peled A**, Modai I, Weizman A, Rehavi M. Serotonin transporter characteristics in lymphocytes and platelets of schizophrenia patients treated with atypical or typical antipsychotics compared to normal individuals. 10th Meeting of the Israel Society for Biological Psychiatry, Hagoshrim, Israel, March 21-23, 2006.
36. **Peled A**. Using virtual reality diagnosis in schizophrenia 6th International Neuropsychiatry Congress, Sydney, Australia, July 10-14 2006.

37. **Peled A.** Brain dynamics and the future of psychiatry. 6th International Neuropsychiatry Congress, Sydney, Australia, July 10-14 2006.
38. **Peled A.** Optimizers 2050. 16th Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel, November 2006.
39. **Peled A.** NeuroAnalysis Annual Meeting of the Israel Society for Biological Psychiatry, Hagoshrim, Israel, 2009.
40. **Peled A.** Copernican Revolution: The New Psychiatry. Annual Meeting of the Israel Society for Biological Psychiatry, Hagoshrim, Israel, 2016.
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15.3 Participation in organizing conferences

1. Digital Mental Health. Shaar-Menashe 18 December 2016
2. Interdisciplinary Psychiatry: From basic Science to Clinical Applications. Marking a year long (Neuroanalysis monthly meetings at Seminar Hakbuzim) Hebrew University 23 Jun 2016
3. Neuroanalysis monthly meetings of Interdisciplinary group at Seminar Hakbuzim 2015 – 2016
4. Neuroanalysis Meeting. Shaar-Menashe 24 December 2015
5. Brain Research in Psychiatry Workshop. A series of lectures from leading Israel neuroscientists MONTHLY 12 LECTURES 2013 -2014
6. The Psychiatric Brain. Shaar-Menashe April 4, 2013
7. Brain Pacer. Shaar-Menashe 6 March 2012
8. NeuroAnalysis workshop. London, UK, March 26, 2012 Organizer
9. NeuroAnalysis workshop. Herzelia, Israel, February 28, 2012 Organizer
10. 1st Neurofeedback meeting on brain plasticity: April 2011, Organizer.
11. 7th Meeting of the Israel Society for Biological Psychiatry, Kfar Giladi, Israel, March 19-21, 2002, Chairperson.
12. 6th Meeting of the Israel Society for Biological Psychiatry, Kfar Giladi, Israel, March 27-29, 2001, Chairperson.

SIGNIFICANT PROFESSIONAL PROJECTS/ACTIVITIES

2017- to present Co-Funder Brain Profiler <http://www.brainprofiler.com/>

2014 to 2015 advanced seminar interdisciplinary psychiatry

2013 to 2014 Advanced Seminar of Psychiatric Neuroscience

2000 to present Founder of NeuroAnalysis <http://neuroanalysis.org.il/>