

Name Tomer Gazit

Degree PhD

CV updated 18.12.2018

CURRICULUM VITAE

NAME Tomer Gazit PhD 036382265

(First) (Last) Academic Degree I.D No.

HOSPITAL/DEPT Tel Aviv Sourasky Medical Center/ Sagol Brain Institute

Tel: 03-6972566

HOME ADDRESS Bnei Efraim 203/A, ap. 7 Tel-Aviv 6998407

EMAIL* tomerg@tlvmc.gov.il

Mobile Phone* 054-4545037

DATE AND PLACE OF BIRTH 30.12.1978, Israel

ZAHAL (ISRAELI) MILITARY SERVICE

1997 – 2000

(Enlisted Discharged)

MARITAL STATUS common-law couple

A. Education

PERIODS OF STUDIES

Hebrew University, Jerusalem, Israel 2001-2005

(Name of University, City, Country) Period

Subject Mathematics & Psychology

Degree or Professional License BSc *Date Awarded* 2005

Bar Ilan University, Ramat Gan, Israel 2005-2011

Name Tomer Gazit

Degree PhD

CV updated 18.12.2018

(Name of University, City, Country)

Period

Subject Neuroscience

Degree or Professional License PhD

Date Awarded 2011

Title of Doctoral Dissertation Wavelet Analysis of Electrographic recordings of brain activity: From Local Field Potentials to Electrocorticography

Supervised by: Prof. Eshel Ben Jacob and Prof. Mina Teicher

Date Awarded 2011

C. ACADEMIC & PROFESSIONAL ACTIVITIES & ACHIEVEMENTS

C1.ACADEMIC EXPERIENCE

- 2006-2009 Teaching Assistant in mathematics and neural networks courses for graduate studies.
The Gonda Multidisciplinary Brain Research Center, Bar Ilan University.
- 2009-2018 Teacher in mathematics course for graduate studies.
The Gonda Multidisciplinary Brain Research Center, Bar Ilan University.
- 2017-present Invited Teacher at Technion continuing medical education unit as a part of the imaging in MRI course.
- 2017-present Invited Teacher at Tel Aviv University and as a part of the Advanced Imaging in neuropathology course (course 0116-5936-01).
- 2018-present Invited Teacher at Tel Aviv University and as a part of the Bioinformatics in Medical Imaging - focusing on cancer research (course 0103-5059-01).

C2. PROFESSIONAL EXPERIENCE.

- 2011-2013 fMRI Presurgical mapping clinician, Sagol Brain Institute, Tel Aviv Sourasky Medical Center.

2014-2018 Researcher, Sagol Brain Institute, Tel Aviv Sourasky Medical Center.

2017-present Head of function pre-surgical mapping unit, Sagol Brain Institute, Tel Aviv Sourasky Medical Center.

2018-present Head of the Brain Informatics and Imaging Lab, Sagol Brain Institute, Tel Aviv Sourasky Medical Center.

C3. ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS*

Date	Country	Subject	Role (Speaker, Member of Steering Committee, Active Participation etc.)
2007	USA	From Microscopic to Macroscopic: Mechanisms Underlying Epileptic Seizures	Speaker
2008	Israel	Annual Gonda Center Graduate Student (Bar Ilan University) Conference	Speaker
2009	Israel	5 th Israel Human Brain Mapping Meeting, Brain Signals	Speaker
2009	USA	Society For Neuroscience Annual Meeting	Poster
2012	Italy	Annual ACTIVE FP7 Project Meeting	Active Participant
2013	Germany	ACTIVE FP7	Speaker

		Project PCC Meeting	
2014	UK	ACTIVE FP7 Project PCC Meeting	Speaker
2014	Israel	Joint TASMCMC-POLIMI ACTIVE Meeting	Speaker
2014	Germany	Annual Human Brain Project Meeting	Speaker
2015	Italy	Final ACTIVE FP7 Project Meeting	Speaker
2015	Spain	Annual Human Brain Project Meeting	Speaker
2016	USA	3 rd Human Single Unit Conference	Speaker
2016	Israel	Insights from Inside, Intracranial Studies of the Human Brain	Speaker
2017	Israel	Intractable Epilepsy in Children Conference	Speaker

C4. MEMBERSHIP IN PROFESSIONAL SOCIETIES*

Years (period)	Name of Organization		
2009	Society for Neuroscience		
2016	Society for Neuroscience		

D. DOCTORAL STUDENTS MENTORED BY CANDIDATE*

Years (period)	Name of Student	Subject	Academic Institute	Ph.D/ M.D	In collaboration with
2015-2018	Noa Cohen	Interictal epileptiform discharges and the epileptogenic network	Tel Aviv University	PhD	Prof. Talma Hendler, Prof. Itzhak Fried and Dr. Firas Fahoum

E. M.A./M.Sc. STUDENTS:

Years (period)	Name of Student	Subject	Academic Institute	In collaboration with
2016-2018	Guy Gurevitch	Motivation and reward, analysis of intracranial recordings	Tel Aviv University	Prof. Talma Hendler

F. Grants

Years	Investigator (Principal/,other)	Granted by Institute/Company	Total Amount
2014-2016	Investigator	EU Horizon 2020, The Human Brain Project	\$150,000
2014-2015	Principal Investigator	Tel Aviv Sourasky Medical Center, Brain grant for young researcher	\$20,000
2016-2017	Investigator	Tel Aviv Sourasky Medical Center, Brain grant for young researcher	\$20,000
2018-2019	Investigator	Alrov Fund, Advancing tomorrow's medicine grant	\$12,000

Name Tomer Gazit

Degree PhD

CV updated 18.12.2018

G. AWARDS

Nov 2016 Best abstract award, 3rd Human Single Unit Conference. Los Angeles, USA.

Dec 2017 Best abstract award, Israeli Neurological Association Annual Conference. Emek Ahula, Israel

SCIENTIFIC PUBLICATIONS

A. BOOKS AND MONOGRAPHS

B. TEXTBOOKS (not for MDs)

B.1. ORIGINAL ARTICLES*

(Including IF; No. of Citations; Rank of Journal in Discipline)

B.1. Articles Published

1. Ben-Jacob E, Doron I, **Gazit T**, Rephaeli E, Sagher O, Towle VL.
Mapping and assessment of epileptogenic foci using frequency-entropy templates.
Phys Rev E Stat Nonlin Soft Matter Phys. 2007;76(5 Pt 1):051903.
IF 2.366; PHYSICS, FLUIDS & PLASMAS 10/31 – Q2; PHYSICS, MATHEMATICAL 6/55 – Q1; Cited: 11.
2. **Gazit T**, Doron I, Sagher O, Kohrman MH, Towle VL, Teicher M, Ben-Jacob E.
Time-frequency characterization of electrocorticographic recordings of epileptic patients using frequency-entropy similarity: a comparison to other bi-variate measures.
J Neurosci Methods. 2011;194(2):358-73.
IF 2.554; BIOCHEMICAL RESEARCH METHODS 35/78 – Q2; NEUROSCIENCES 147/259 – Q3; Cited: 2.
3. **Gazit T**, Friedman A, Lax E, Samuel M, Zahut R, Katz M, Abraham L, Tischler H, Teicher M, Yadid G.
Programmed deep brain stimulation synchronizes VTA gamma band field potential and alleviates depressive-like behavior in rats.
Neuropharmacology. 2015;91:135-41.
IF 5.012; NEUROSCIENCES 44/259 – Q1; PHARMACOLOGY & PHARMACY 24/257 – Q1; Cited: 12.
4. Medvedovsky M, Nenonen J, Koptelova A, Butorina A, Paetau R, Mäkelä JP, Ahonen A, Simola J, **Gazit T**, Taulu S.
Virtual MEG Helmet: Computer Simulation of an Approach to Neuromagnetic Field Sampling.
IEEE J Biomed Health Inform. 2016;20(2):539-48.
IF 3.451; COMPUTER SCIENCE, INFORMATION SYSTEMS 20/146 – Q1; COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS 16/105 – Q1; MATHEMATICAL & COMPUTATIONAL BIOLOGY 7/51 – Q1; MEDICAL INFORMATICS 5/24 – Q1; Cited: 0.
5. **Gazit T**, Andelman F, Glikmann-Johnston Y, Gonen T, Solski A, Shapira-Lichter I, Ovadia M, Kipervasser S, Neufeld MY, Fried I, Hendler T, Perry D.
Probabilistic machine learning for the evaluation of presurgical language

dominance.

J Neurosurg. 2016;125(2):481-93.

IF 4.059; CLINICAL NEUROLOGY 39/194 – Q1; SURGERY 16/197 – Q1; Cited: 1.

6. Bruchim-Samuel M, Lax E, Gazit T, Friedman A, Ahdoot H, Bairachnaya M, Pinhasov A, Yadid G.
Electrical stimulation of the vmPFC serves as a remote control to affect VTA activity and improve depressive-like behavior.
Exp Neurol. 2016;283(Pt A):255-63.
IF 4.706; NEUROSCIENCES 52/259 – Q1; Cited: 0.
7. Klovatch-Podlipsky I*, Gazit T*, Fahoum F, Tsirelson B, Kipervasser S, Kremer U, Ben-Zeev B, Goldberg-Stern H, Eisenstein O, Harpaz Y, Levy O, Kirschner A, Neufeld MY, Fried I, Hendler T, Medvedovsky M.
*Equal Contribution
Dual array EEG-fMRI: An approach for motion artifact suppression in EEG recorded simultaneously with fMRI.
Neuroimage. 2016;142:674-86.
IF 5.835; NEUROIMAGING 1/14 – Q1; NEUROSCIENCES 32/259 – Q1; RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING 6/127 – Q1; Cited: 1.
8. Gonen T*, Gazit T*, Korn A, Kirschner A, Perry D, Hendler T, Ram Z.
*Equal Contribution
Intra-operative multi-site stimulation: Expanding methodology for cortical brain mapping of language functions.
PLoS ONE. 2017;12(7):e0180740.
IF 2.806; MULTIDISCIPLINARY SCIENCES 15/64 – Q1; Cited: 0.
9. Shahar T, Korn A, Barkay G, Biron T, Hadanny A, Gazit T, Nosssek E, Ekstein M, Kesler A, Ram Z.
Elaborate mapping of the posterior visual pathway in awake craniotomy.
J Neurosurg. August 2017:1-9.
IF 4.059; CLINICAL NEUROLOGY 39/194 – Q1; SURGERY 16/197 – Q1; Cited: 0.
10. Shapira-Lichter I, Strauss I, Oren N, Gazit T, Sammartino F, Giacobbe P, Kennedy S, Hutchison W, Fried I, Hendler T, Lozano AM.
Conflict monitoring mechanism at the single-neuron level in the human ventral anterior cingulate cortex.
Neuroimage. 2018.
IF 5.426; NEUROSCIENCES 36/261 – Q1; NEUROIMAGING 1/14 – Q1; RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING 13/128 – Q1; Cited: 0.
11. Admon R, Vaisvaser S, Erlich N, Lin T, Shapira-Lichter I, Fruchter E, Gazit T, Hendler T.
The role of the amygdala in enhanced remembrance of negative episodes and acquired negativity of related neutral cues.

Biol Psychol. 2018;139:17-24.

**IF 2.891; PSYCHOLOGY 19/78 – Q1; PSYCHOLOGY,
EXPERIMENTAL 16/85 – Q1; Cited: 0.**

Summary - 10 out of 11 articles are Q1 rated.

B.1. Articles Accepted

12. Cohen N, Tsizin E, Fried I, Fahoum F, Hendler T, **Gazit T***, Medvedovsky M.*

*Equal Contribution.

Conductive Gel Bridge Sensor for Motion Tracking in Simultaneous EEG-fMRI Recordings.

Epilepsy Res. 2018. doi: 10.1016/j.epilepsyres.2018.12.008 [ahead of print].

IF 2.491; CLINICAL NEUROLOGY 107/197 – Q3; Cited: 0.

B.1. Articles Submitted

1. Andelman M, **Gazit T**, Andelman F, Kipervasser S, Kramer U, Neufeld M, Fried I, Fahoum F. Spatial distribution and hemispheric asymmetry of experiential phenomena evoked by electrical stimulation of the human brain. Submitted to: **Journal of Neurosurgery**
2. Erdman A, Abend R, Jalon I, Arzi M, **Gazit T**, Avirame K, Diego Ais E, Levokovitz H, Gilboa-Schechtman E, Hendler T, Harel EV. Ruminative Tendency Relates to Ventral Striatum Functionality: Evidence from Task and Resting-State fMRI. Submitted to **Biological Psychology**

B.2. CASE REPORTS

B.2. Case Reports published

B.2. Case Reports Accepted

B.2. Case Reports Submitted

1. Biran I, Admon R, **Gazit T**, Fahoum F. Inter - Modulation of Temporal Lobe Epilepsy and Posttraumatic Submitted to **Epilepsy & Behavior Case Reports**

Disorder: Network Analysis of a Single Case

B.3. REVIEW ARTICLES

B.3. Review Articles Published***B.3. Review Articles Accepted******B.3. Review Articles Submitted for Publication*****C. CHAPTERS IN BOOKS****D.1. INVITED PAPERS IN SCIENTIFIC MEETINGS****D.2. PAPERS PRESENTED AT SCIENTIFIC MEETINGS PUBLISHED AS PROCEEDINGS**

1. **Gazit T**, Doron I, Teicher M, Towle VL, Kohman MH, Sagher O, Ben-Jacob E.
A New Method for Localization and Assessment of Epileptic Foci.
From Microscopic to Macroscopic: Mechanisms Underlying Epileptic Seizures. Michigan, USA. May 8-10, 2007. Speaker
2. **Gazit T**, Doron I, Teicher M, Towle VL, Kohman MH, Sagher O, Ben-Jacob E.
Wavelets Can Aid in Localization and Assessment of Epileptic Foci.
Annual Gonda Center Graduate Student (Bar Ilan University) Conference. Shavei Tzion, Israel. April 29, 2008. Speaker
3. **Gazit T**, Doron I, Teicher M, Towle VL, Kohman MH, Sagher O, Ben-Jacob E.
A comparison of synchronization and spectral similarity measures in the analysis of electrocorticographic recordings.
5th Israel Human Brain Mapping Meeting, Brain Signals. Ramat Gan, Israel. September 7-9, 2009. Speaker
4. **Gazit T**, Doron I, Teicher M, Towle VL, Kohman MH, Sagher O, Ben-Jacob E.
Detecting Epileptic Features in Electrocorticographic Recordings: The Frequency-Entropy Similarity Method
Society For Neuroscience Annual Meeting. Chicago, USA. October 17-21, 2009. Poster.
5. **Gazit T**, Friedman A, Lax E, Samuel M, Zahut R, Katz M, Abraham L, Tischler H, Teicher M, Yadid G.
Deep brain stimulation in the VTA increases gamma band synchronization in depressive rats.
Israeli Society for Neuroscience, Eilat, Israel, December 12-14, 2010
6. **Gazit T**, Gonen T, Fried I, Hendler T.
Mapping motivational decision making process at a multi-level approach
Annual Human Brain Project Meeting. Heidelberg, Germany. December, 30, 2014. Speaker

7. Gonen T, **Gazit T**, Akiva K, Kirschner A, Perry D, Hendlar T, Ram Z.
Intraoperative mapping of neural networks.
The Israeli Neurosurgery Society Annual Meeting, Israel, March 11-13, 2015.
Co-author
8. **Gazit T**, Berghoefer, E, Klovatch, I, Kirshner, A, Hendler T, Medvedovsky,
Kassahum, Y,
Presurgical EEG-fMRI for Epilepsy
Final ACTIVE FP7 Project Meeting. Milano, Italy. March, 26, 2015. Speaker
9. **Gazit T**, Gonen T, Fried I, Hendler T.
Human neural responses to punishment and reward
Annual Human Brain Project Meeting. Madrid, Spain. September, 27-30,
2015. Speaker
10. Yamin HG, **Gazit T**, Tchemodanov N, Raz G, Jakont G, Charles F, Cavazza
M, Fried I, Hendler T.
Neurofeedback via intracranial depth electrodes.
Proceedings of the 6th International Brain-Computer Interface Meeting,
organized by the BCI Society. California, USA. May 30 to June 3, 2016.
11. Biran I, Admon R, **Gazit T**, Fahoum F.
Post Traumatic Stress Disorder Manifested as Temporal lobe Epilepsy.
Annual Congress of the International Neuropsychanalysis Society. Chicago,
July 7-10, 2016. Winning Poster.
12. **Gazit T**, Gonen T, Gurevitch G, Yamin H, Neufeld M, Kippervasser S,
Fahoum F, Hendler T, Fried I.
Depicting the neural dynamics of human motivational decision making:
evidence from intracranial recordings
3rd Human Single Unit Conference. Los Angeles, USA. November, 10-11,
2016. Speaker
13. **Gazit T**, Gonen T, Gurevitch G, Yamin, H, Neufeld M, Kippervasser S,
Fahoum F, Hendler T, Fried I.
Depicting the neural dynamics of human motivational decision making:
evidence from intracranial recordings
Society For Neuroscience Annual Meeting. San Diego, USA. November 12-
16, 2016. Poster.
14. **Gazit T**, Gonen T, Gurevitch G, Yamin, H, Neufeld M, Kippervasser S,
Fahoum F, Hendler T, Fried I.
Depicting the neural dynamics of human motivational decision making:
evidence from intracranial recordings.
Insights from Inside, Intracranial Studies of the Human Brain. Tel Aviv,
Israel. November, 30, 2016. Speaker
15. Cohen N, **Gazit T**, Neufeld M, Hendler T, Fried I, Fahoum F.
Single neuron activity preceding human epileptic seizures.

Annual Meeting of the American Epilepsy Society, Huston, TX, USA,
December, 2-6, 2016. Poster.

16. Cohen N, **Gazit T**, Neufeld M, Hendler T, Fried I, Fahoum F.
Single neuron activity precedes ictal EEG changes.
Annual Meeting of the Israeli Society for Neuroscience, Eilat, Israel,
December 4, 2016.
17. **Gazit T**, Cohen N, Levy O, Lovatch, I, Fahoum F, Hendler T, Medvedovsky M.
EEG-fMRI
Intractable Epilepsy in Children Conference. Tel Aviv, Israel. November 8,
2017. Speaker
18. Cohen N, **Gazit T**, Fried I, Fahoum F.
Single neuron activity precedes ictal EEG changes.
Israeli Neurological Association Annual Conference. Emek Ahula, Israel,
December 6, 2017. Winning abstract and oral presentation.
19. Andelman M, **Gazit T**, Andelman F, Kipervasser S. Kramer U, Neufeld M.
Fried I, Fahoum F.
Experiential phenomena elicited by electrical brain stimulation: neuroanatomy
revised with modern tools.
Israeli Neurological Association Annual Conference. Emek Ahula, Israel,
December 6, 2017. Poster
20. Cohen N, **Gazit T**, Neufeld M, Hendler T, Fried I, Fahoum F.
Single neuron activity preceding human epileptic seizures.
Annual Meeting of the Israeli Epilepsy Society, Herzlia, Israel, January, 24,
2018. Poster.

D.3. ABSTRACTS

1. Klovatch-Podlipsky I, Medvedovsky M, **Gazit T**, Tsirelson B, Fahoum F,
Kipervasser S, Ben-Zeev B, Neufeld MY, Fried I, Hendler T.
Dual array EEG-fMRI for optimal separation between brain signal and
artifact.
J Mol Neurosci. 2014; 53: S71.
2. Medvedovsky M, Artzi M, Zadicario E, Levy Y, Tlusty T, Foroni R, Ricciardi
GK, Nicolato A, Aizenstein O, Fahoum F, Kipervasser S, Hendler T, Klovatch
I, **Gazit T**, Neufeld MY, Fried I, Ben Bashat D.
Combined focused ultrasound and gamma knife treatment of medial temporal
lobe epilepsy: computer simulation study.
Epilepsia. 2014; 55:171-2.
3. Vaisvaser S, Erlich N, **Gazit T**, Lin T, Admon R, Bar-Haim Y, Tarrasch R,
Fruchter E, Shapira-Lichter I, Hendler T. The Role of the Amygdala and its
Prefrontal Functional Connections in Cued Recall of Aversive Events.
Biol Psychiatry. 2015; 77(9).

4. Medvedovsky M, Ekstein D, Inbar D, **Gazit T**, Klovach I, Fahoum F, Nissenkorn A, Ben-Zeev B, Neufeld MY, Kipervasser S, Kramer U, Fried I, Harpaz Y.
MEG beamformer for ictal fast activity mapping: amplitude vs. kurtosis.
Epilepsia. 2015; 56:127.

E. ITEMS IN ENCYCLOPEDIAS

F. BOOKS EDITED

G. OTHER PUBLICATIONS (Encyclopedias; Reports; Letter to Editors)

1. Yamin HG, **Gazit T**, Tchemodanov N, Raz G, Jackont G, Charles F, Fried I, Hendler T, Cavazza M.
Depth electrode neurofeedback with a virtual reality interface.
Brain-Computer Interfaces (Abingdon). 2017;4(4):201-13.
IF NOT INDEXED.

H. Member of Editorial Board/ Reviewer (International Journals)