

Date: 20.12.20

Curriculum Vitae

1. Personal Data

Name in Hebrew: ד"ר ריידר חן
Name in English: Dr. Ryder Chen
E-Mail: ChenR@wgalil.ac.il

2. Education Certificates and Degrees

<u>Education</u>	<u>Institute</u>	<u>Department</u>	<u>From - To</u>
Post-Doctoral Internship , “Hemispheric lateralization and Immunological Biomarkers in Ischemic Stroke Patients”	University of Lille, Lille, France	Prof. Yoram Gidron’s SCALab-Cognitive and Affective Sciences, Department of Psychology	2018-2019
Post-Doctoral Internship (Neuro-Regulation of Diabetes Research)	Assuta Medical Center, Tel Aviv, Israel	Prof. Shmuel (Boris) Levit’s Institute of Endocrinology, Metabolism & Diabetes	2017-2018
Post-Doctoral visiting fellow (“Electrophysiology of visuospatial and auditory working memory deficiencies in ADHD”)	Technion- Israel institute of technology, Haifa, Israel	Faculty of Education in Science and Technology. Prof. Miriam Reiner’s Virtual-Reality & Neuro-Cognition Lab	2015-2017
Neurofeedback therapist certification	IBNA–Israel Biofeedback-Neurofeedback Association.	Dr. Anat Barnea’s Bio-Keshev Clinic for Neurofeedback therapy	2015-2017
PhD (Direct program for outstanding Research students)	The Institute for the Study of Affective Neuroscience (ISAN), University of Haifa, Israel	Psychology (Brain and Behavior / Cognitive Neuropsychology program)	2011-2015
MA (Summa Cum Laude, GPA 96.3)	The Institute for the Study of Affective Neuroscience	Psychology	2008-2010

<u>Education</u>	<u>Institute</u>	<u>Department</u>	<u>From - To</u>
	(ISAN), University of Haifa, Israel		
BA (Summa Cum Laude, GPA 98.8)	Bar-Ilan University, Ramat-Gan, Israel	Psychology	2005-2008

3. **Title of Master's Thesis:** "Classification of Anxious and Depressive Subclinical Tendencies through Neuro-cognitive and Emotional Diagnostic Implements".
Supervisor: Prof. Gal Richter-Levin.

Title of Doctoral Thesis: "Neurocognitive Models for PTSD Subtype Classification According to Anxiety and Depressive Dominant Symptomatology".
Supervisor: Prof. Gal Richter-Levin.

4. **Academic Ranks**

<u>Rank</u>	<u>% Position</u>	<u>From – To</u>	<u>Institute</u>
Lecturer	30%	2020-current position	Western Galille College, Acre, Israel
Lecturer & Neuroscientist & Clinical Research Instructor for Medical Students (Head of the Brain Research Laboratory, Department of Neurology, Ziv Medical Center, Safed)	100%	2013-2020	Ziv Medical Center, Affiliated to the Bar-Ilan Faculty of Medicine, Safed, Israel.
Clinical Research Instructor (in collaboration with Dr. Anat Dahan)	30%	2017-2020	Department of Software engineering Ort Braude College, Karmiel, Israel.
Academic teaching Staff & Research Instructor	20%	2019-2020	Faculty of Education & Psychology, The Open University, Israel.
Behavioral & Clinical Neuroscience Advisor In collaboration with Dr. Noa Zecharya, head of the national Neuroscience program for high excellent school students.	25%	2018-2019	Davidson Institute of science education, Weizmann Institute of science, Rehovot, Israel.

<u>Rank</u>	<u>% Position</u>	<u>From – To</u>	<u>Institute</u>

5. Supervising Graduate and Post-Graduate Students

a. Names of M.A./M.Sc Students (supervised by the lecturer)

<u>Name of Student</u>	<u>Year of Completion</u>	<u>Co-Supervisor</u>
Ronen Zilber	2020	In collaboration with Dr. Anat Dahan & Prof. Zeev Volkovich from Ort Braude College of Engineering, Karmiel
Lior Israelov	2019	In collaboration with Dr. Anat Dahan & Prof. Zeev Volkovich from Ort Braude College of Engineering, Karmiel
Yaakov Fain	2019	In collaboration with Dr. Anat Dahan & Prof. Zeev Volkovich from Ort Braude College of Engineering, Karmiel

b. Names of Doctoral (PhD/MD) Students (supervised by the lecturer)

<u>Name of Student</u>	<u>Year of Completion</u>	<u>Co-Supervisor</u>
Refael Israeli, MD student	2020	Dr. Naaim Simaan & Dr. Radi Shahien
Dana Azaria, MD student	2020	Dr. Radi Shahien
Amit Moses, MD student	2020	Dr. Radi Shahien
Roni Almog, MD student	2020	Dr. Naaim Simaan & Dr. Radi Shahien
Shirly Yossef, MD	2020	Dr. Radi Shahien
Chen Deshe, MD student	2020	Dr. Radi Shahien
Yair Shmidt, MD student	2020	Dr. Radi Shahien & Prof. Yoram Gidron
Naomi Dovrat, MD student	2019	Dr. Radi Shahien
Dr. Kari Ohana, Basic Science Research Project	2019	Dr. Radi Shahien
Dr. Hanna Zdravka, Basic Science Research Project	2019	Dr. Radi Shahien
Matan Segalovich, MD student	2019	Dr. Radi Shahien
Ziv Sarusi, MD	2019	Dr. Radi Shahien

<u>Name of Student</u>	<u>Year of Completion</u>	<u>Co-Supervisor</u>
student		
Noam Walder, MD student	2019	Dr. Radi Shahien
Daniel Marmur, MD student	2018	Dr. Radi Shahien
Dr. Albina Bronov, Basic Science Research Project	2016	Dr. Radi Shahien

6. **Grants and Awards**

<u>Year</u>	<u>Name of Grant/Award</u>
2019	Women's empowerment excellence award, donated by Mr. Maurice Kahn, founder of the "Genesis" project.
2010	Excellence award for outstanding academic achievements, GPA (96.3), University of Haifa
2008	Academic Excellence Award – donated by the "Center for Society, Culture and Economy"
2008	Excellence Award for outstanding academic achievements, GPA (98.8), Bar-Ilan University

7. **Research Grants**

<u>From-To</u>	<u>Funding Agency</u>	<u>Title of Research</u>	<u>Amount</u>	<u>Names of Research Partners</u>
2015	Bar-Ilan's Faculty of Medicine	Electrophysiology of ADHD subtypes	20000	Dr. Radi Shahien
2010-2013	University of Haifa	Models for PTSD Subtypes Classification According to Anxiety and Depressive Dominant Symptomatology	244000	Prof. Gal Richter-Levin

8. Active Participation in Conferences (Only from 2001)

1. The effect of triple therapy (DPP4I-PPI- GABA) in T1DM. A proof-of-concept. Advanced Technologies & Treatments for Diabetes Conference (ATTD), Madrid, Spain, 2020.
2. Differences in age and comorbidities of stroke patients from the galilee according to sex and ethnicity. WCN 2019, XXIV World Congress of Neurology, Dubai, United Arab Emirates, Oct 2019.
3. The relations between abnormal sensory processing patterns and ADHD subtypes compared with a healthy control group. WCN 2019, XXIV World Congress of Neurology, Dubai, United Arab Emirates, Oct 2019.
4. Prospective study evaluating clopidogrel resistance in ischemic stroke patients from different ethnic groups in Northern Israel (Abstract), The 5th European Stroke Organization Conference (ESOC), Milan, Italy, 2019.
5. The relations between abnormal sensory processing patterns and ADHD subtypes compared with a healthy control group (Poster), The 8th Translational research Day. Bar-Ilan Faculty of Medicine in the Galilee, Safed, Israel, 2019.
6. Comorbidity of sensory processing disorder & ADHD subtypes compared with a healthy control group (Abstract), The 2nd Research Day, Ziv Medical Center, Safed, 2019.
7. The relations between abnormal sensory processing patterns and ADHD subtypes compared with a healthy control group (Abstract). The Israel Neurological Association Meeting, Rishon Le Zion, 2018.
8. CGM may serve as a “Gold Standard” tool, confirming metabolic recovery & restoration of functional ability and secretion of endogenous Insulin in T2DM patients (Abstract). The 11th International Conference on Advanced Technologies & Treatments for Diabetes. Vienna, Austria, 2018.
9. Integrated virtual reality for an immersive distance learning (Lecture). “Brain-research Inspired Technologies for Education” Conference & Hackathon. Technion - Department of Education in Science & Technology, Israel, 2015. Member of the organizing committee.
10. Post-Traumatic Stress Disorder in the Post-War Arab Population: Characterization of Socio-demographics and Comorbidities of Anxiety and Depression (Abstract). The 4rd Translational research Day. Bar-Ilan Faculty of Medicine in the Galilee, Safed, Israel, 2015.
11. Models for PTSD Subtypes Classification According to Anxiety and Depressive Dominant Symptomatology (Abstract + Poster). American Academy of Neurology. Philadelphia, Pennsylvania, USA, 2014.
12. A New Classification of Anxiety and Depressive Subtypes in Post-Traumatic Stress Disorder (Poster). The 2014 Joint Conference of The Israeli Neurological Association and The Israel Society of Neuro-Immunology. Kfar Blum, Israel, 2014.
13. Models for PTSD Subtypes Classification According to Anxiety and Depressive Dominant Symptomatology (Abstract). The 3rd Conference for Translational Research. Bar-Ilan Faculty of Medicine in the Galilee, Safed, Israel, 2014.
14. Classification of Anxious and Depressive Subclinical Tendencies through Neurocognitive, Emotional and Electrophysiological Diagnostic Implements

(Abstract). The 1st Conference for Translational Research. Bar-Ilan Faculty of Medicine in the Galilee, Safed, Israel, 2012.

15. Evoked Potentials in Population with Post-Traumatic Clinical Tendencies (Poster). The 1st Ph.D. Student Conference for Brain Research. University of Haifa, Haifa, Israel, 2010.
16. Novel Approaches for Classifying Post-Traumatic Sub-Populations (Poster). The 3rd International Meeting of The Haifa Forum for Brain and Behavior. University of Haifa, Haifa, Israel, 2009.

9. Positions Held

<u>From-To</u>	<u>Institute</u>	<u>Position</u>	<u>% Position</u>
2020-current	Western Galilee College, Acre	Cognitive Neuropsychology Lecturer & Behavioral Neuroscientist at Department of Criminology	30%
2020-current	Educational Psychology Services, Municipality of Acre.	Psychologist	70%
2016-2017	BrainLabWorks Ltd. Karmiel.	Behavioral Neuroscience Advisor	33%
2013-2020	Ziv Medical Center, Safed.	Chief Neuroscientist & Head of the Brain Research Lab at Department of Neurology	100%
2012-2014	Educational Psychology Services, Marom HaGalil Regional Council.	Psychologist	50%
2012-2013	Educational Psychology Services, Municipality of Karmiel.	Psychologist	50%
2010-2011	Educational Psychology Services, Municipality of Safed.	Psychologist	50%

10. Additional Professional Experience (Public Positions)

Behavioral & Clinical Neuroscience Advisor at the national Neuroscience program for high excellent school students, Davidson Institute of science education, Weizmann Institute of science, Rehovot, Israel (2018-2019).

11. Scientific Areas of Specialization

- a. Cognitive Neuropsychology and Behavioral Neuroscience
- b. Classification and prediction models for brain disorders using electrophysiological methods: Virtual Reality therapy, Augmented Reality, Eye Tracking, GSR, HRV, Neurofeedback, Biofeedback, Vagal Nerve Stimulation, CNS & Peripheral Activation.
- c. Psychoneuroimmunology of stress related disorders and PTSD.
- d. ADHD and Sensory Processing Disorder
- e. Neuro-Education- Learning enhancement, Peak performance, Memory enhancement.
- f. Neuropsychology – Neurocognition.
- g. Affective and Behavioral Neuroscience.
- h. Psychiatry and psychophysiology.
- i. Brain and Mind in Education.
- j. Neuroendocrinology (Neuro-Regulation of Diabetes).
- k. Limbic System.
- l. Pathophysiology.
- m. Neuro-Cognition and Memory Functions.
- n. Psychiatric and Brain Disorders (PTSD, ADHD, Anxiety, Depression, etc.)

12. Miscellaneous (Professional Activities and Memberships)

2020	Scientific member
2018	Scientific member of the annual research authority conference of the Ziv medical center, Safed, Israel.
2017–present	Professional member, IBNA – Israel Biofeedback-Neurofeedback Association.
2016	Manuscript Reviewer, Neuroscience Journal, Elsevier
2015	Organizing committee member. Brain-research Inspired Technologies for Education” Conference & Hackathon. Technion – Department of Education in Science & Technology, Israel.
2012–Present	Member, The Israeli Neuro-Analysis Forum for Clinical Brain Profiling (CBP), Sha’ar Menashe Mental Health Center, Hadera, Israel.
2010–2015	Member, The Israeli Psychological Association.
2008–2014	Student Member, The Israel Society for Biological Psychiatry (Part of the World Federation of Societies of Biological Psychiatry).
2008–2012	Student Member, The Israel Society for Neuroscience.

13. Academic Profile

As a Behavioral Neuroscientist my research focuses on mapping human Neuropsychological responses in various mental disorders such as PTSD, Anxiety & ADHD via integrated electro-physiological methods (Neurofeedback, Biofeedback, Eye-Tracker, Wearable Sensors), computerized neurocognitive tasks & virtual reality technologies. My research is clinical-applicative as well as theoretical, dealing with both diagnosis and treatment.

Publications

Dr. Chen Hanna Ryder

Refereed Publications

פרסומים שפויטים

1. Levit, S., Torban, N., Boaz, M., Weichman, M., Azuri, J., Merzon, E., ... **Ryder, C. H.** (2020). Gravitentric approach to Type 2 Diabetes therapy. The success prediction. A proof-of-concept. *Pharmacy Formulas*, 2(2), 48–60. <https://doi.org/10.17816/phf34728>.
2. Dahan, A.*, **Ryder, C. H.***, & Reiner, M. (2018). Components of motor deficiencies in ADHD and possible interventions. *Neuroscience*, 378, 34-53. (***Equal contribution**). doi: <https://doi.org/10.1016/j.neuroscience.2016.05.040>.
3. Levit, S., Torban, N., Abadi, I. K., Barnea, R., Musin, I. N., Levit, V., & **Ryder, C. H.** (2020, February). The Effect of Triple Therapy (DPP4I-PPI-GABA) in T1DM. A Proof-of-Concept. In *Diabetes Technology & Therapeutics* (Vol. 22, pp. A25-A25). 140 HUGUENOT STREET, 3RD FL, NEW ROCHELLE, NY 10801 USA: MARY ANN LIEBERT, INC.
4. Beiruti, K., Abu Awad, A., Keigler, G., **Ryder, C. H.**, & Shahien, R. (2019). Atypical development of neurosyphilis mimicking limbic encephalitis. *International journal of STD & AIDS*, 30(2), 194-197. doi: <https://doi.org/10.1177/0956462418797873>.
5. Levit, S., Giveon S., Musin I.N, Barnea, R., Korek-Abadi, I., Levit, V., & **Ryder, C. H.** (2019). Continuous glucose monitoring - proved hypogly-cemia in sodium-glucose co-transporter-2 inhibitors treated type 2 diabetes patients: a link to ketosis development. *Pharmacy Formulas*. 1(1), 52-69. doi: <https://doi.org/10.17816/phf18536>.

Books (as author)

ספרים (מחבר)

Ph.D. Models for PTSD Subtype Classification According to Anxiety and Depressive Dominant Symptomatology. University of Haifa, (2014).

M.A. Classification of Anxiety and Depression Subclinical Tendencies through Neuro-cognitive and Emotional Diagnostic Implements, University of Haifa, (2010).

Conference Articles and Chapters in Books

מאמרים בכנסים ופרקים בספרים

1. Shahien Radi, **Ryder Chen** & Zarka Salman. (2019). Differences in age and comorbidities of stroke patients from the galilee according to sex and ethnicity. *Journal of the Neurological Sciences*, 405, 112-113. <https://doi.org/10.1016/j.jns.2019.10.646>.
2. **Ryder Chen**, Ohana Kari, & Shahien Radi (2019). The relations between abnormal sensory processing patterns and ADHD subtypes compared with a healthy control

group. *Journal of the Neurological Sciences*, 405, 52.
<https://doi.org/10.1016/j.jns.2019.10.1654>.

3. Levit, S., Torban, N., Korek-Abadi, I., Barnea, R., Musin, I. N., Levit, V., & **Ryder, C. H.** (2020). The effect of triple therapy (DPP4I-PPI- GABA) in T1DM. A proof-of-concept. *Diabetes Technology & Therapeutics*, 22(S1), 26.
<https://doi.org/10.1089/dia.2020.2525>.
4. **Ryder, C.**, Richter-Levin, G., & Shahien, R. (2014). Models for PTSD Subtypes Classification According to Anxiety and Depressive Dominant Symptomatology, *American Academy of Neurology*, 82, (P2. 160).
https://n.neurology.org/content/82/10_Supplement/P2.160.short.

Under Review Papers

מאמרים שמצויים בהליך שיפוט

1. **Ryder, C.H.**, Zidan, H., Dovrat, N., Ryder, D., & Shahien, R. Differences in age and comorbidities of stroke patients from the Galilee according to sex and ethnicity.
2. **Ryder, C.H.**, Dahan, A., Ramsted-Ohana, K., Ryder, D., & Shahien, R. (2020) The relations between abnormal sensory processing patterns and ADHD subtypes compared with a healthy control group.
3. Dahan, A., **Ryder, C.H.** Shahien, R., Israelov, L., Fain, Y. & Volkovich, Z. (2020) Classification of ADHD using Machine Learning algorithm based on Riemannian Geometry.

Papers presented at scientific conferences

הרצאות בכנסים מדעיים

1. The effect of triple therapy (DPP4I-PPI- GABA) in T1DM. A proof-of-concept. Advanced Technologies & Treatments for Diabetes Conference (ATTD), Madrid, Spain, 2020.
2. Differences in age and comorbidities of stroke patients from the galilee according to sex and ethnicity. WCN 2019, XXIV World Congress of Neurology, Dubai, United Arab Emirates, Oct 2019.
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8. CGM may serve as a “Gold Standard” tool, confirming metabolic recovery & restoration of functional ability and secretion of endogenous Insulin in T2DM patients (Abstract). The 11th International Conference on Advanced Technologies & Treatments for Diabetes. Vienna, Austria, 2018.
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