

Noa Ofen, Ph.D.

Wayne State University
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ACADEMIC APPOINTMENTS

Wayne State University (Detroit, MI)

2017- Associate Professor, Dept. of Psychology
2015-2017 Assistant Professor, Dept. of Psychology
2011-2015 Assistant Professor, Dept. of Pediatrics
2011- Faculty, Translational Neuroscience Program
2011- Faculty, Institute of Gerontology and the Merrill Palmer Skillman Institute

Weizmann Institute of Science (Rehovot, Israel)

2018-2019 Visiting Scientist, Neurobiology and Life Science Core Facilities

Massachusetts Institute of Technology (Cambridge, MA)

2005-2011 Postdoctoral Associate, Dept. of Brain and Cognitive Sciences

Northeastern University (Boston, MA)

2010 Lecturer, Dept. of Psychology

Harvard University (Cambridge, MA)

2008-2009 Teaching Fellow, Dept. of Neurobiology

Stanford University (Stanford, CA)

2004-2005 Postdoctoral Fellow, Dept. of Psychology

EDUCATION

1998-2004 **Weizmann Institute of Science** (Rehovot, Israel)
Ph.D. in Cognitive Neuroscience

1996-1998 **Weizmann Institute of Science** (Rehovot, Israel)
M.Sc. in Cognitive Neuroscience

1993-1996 **University of Haifa** (Haifa, Israel)
B.A. in Psychology, Magna Cum Laude, With Honors

HONORS, AWARDS, AND FELLOWSHIPS

2020-2021 Career Development Chair, Wayne State University
2020-2022 Faculty Competition for Postdoctoral Fellows Award, Wayne State University
2019-2020 Faculty Competition for Graduate Student Award, Wayne State University
2018-2019 Visiting Scientist Fellowship, Weizmann Institute of Science
2017 Mentor Award for Junior Faculty, Wayne State University
2015-2016 Faculty Competition for Postdoctoral Fellows Award, Wayne State University
2014 Fellow, German-American Kavli Symposium National Academy of Science, Irvine, CA
2012-2013 Faculty Competition for Graduate Student Award, Wayne State University
2009 Science Spot appreciation award, MIT School of Science
2006 Travel Award, Organization of Human Brain Mapping, Annual Meeting, Florence, Italy
2004 Fellow, RIKEN Brain Science Institute, Summer Lecture Course, Saitama, Japan
2003 Fellow, Summer Institute in Cognitive Neuroscience, Lake Tahoe, CA
2001 Fellow, Summer Institute in Cognitive Neuroscience, Dartmouth College, NH

1996-2003 Feinberg Graduate School Scholarship, Weizmann Institute of Science
1993-1995 Excellence Scholarships, Dean List, University of Haifa
1993-1995 Interdisciplinary Honor Program, University of Haifa

RESEARCH GRANTS

Ongoing

NIH/NIMH Ro1 (MH-107512)

Title: *Development of memory networks in children*

Role: Principle Investigator; Funding term: 06/20/16–03/31/21; Amount: \$1,938,565

WSU Faculty Competition for Graduate Student Award Program

Title: *Environmental and genetic modifiers of the neural substrates supporting cognitive development across the lifespan*

Role: Faculty Mentor; Funding term: 08/15/19–05/15/20; Amount: \$40,000

WSU Faculty Competition for Postdoctoral Fellow Award

Title: *Assessing memory in the developing brain using advanced functional neuroimaging*

Role: Faculty Mentor; Funding term: 08/15/20–08/14/22; Amount: \$60,000

Pending

United States – Israel Binational Science Foundation

Title: *Associative episodic memory across the lifespan: Cognitive processes and brain substrates*

Role: Principle Investigator; Funding term: 10/01/20–09/30/22; Amount: \$250,000

Collaborative project with Dr. D. Levy (Interdisciplinary Center, Herzliya, Israel)

Completed (past 5 years)

Blue Cross Blue Shield of Michigan Foundation Student Award Program

Title: *The Roles of Socioeconomic Status and Brain-Derived Neurotrophic Factor Genotype in Brain and Memory Development in Children*

Role: PI/Faculty Mentor; Funding term: 08/07/18–10/31/19; Amount: \$3,000

WSU Magnetic Resonance Imaging Developmental Time Fund (multiple awards)

Title: *Cognitive and Brain Development in Preterm Born Children*

Role: Principle Investigator; Funding term: 04/01/16–08/30/16; Amount: \$2,920

Title: *Longitudinal Neuroimaging of Memory Systems*

Role: Principle Investigator; Funding term: 03/01/15–08/30/16; Amount: \$19,272

Title: *In Search of Proto syntax in the Brain*

Role: Co-Investigator; Funding term: 10/01/14–08/30/16; Amount: \$12,264

Title: *Neuroimaging of Memory Systems in Young Children*

Role: Principle Investigator; Funding term: 07/01/14–03/01/15; Amount: \$8,760

WSU Faculty Competition for Postdoctoral Fellows Award

Title: *Neural Correlates of Age-Related Differences in Memory: A Life-Span Approach*

Role: Principle Investigator; Funding term: 01/01/15–01/01/17; Amount: \$120,000

WSU University Research Grant

Title: *Cognitive and Brain Development in Preterm Born Children*

Role: Principle Investigator; Funding term: 06/15/14–05/01/15; Amount: \$10,000

PUBLICATIONS

Papers Published in Peer-reviewed Journals

1. Tang, L., Pruitt, P.J., Yu, Q., Homayouni, R., Daugherty, A.M., Damoiseaux, J., **Ofen, N.** (accepted). Differential functional connectivity in anterior and posterior hippocampus supporting the development of memory formation. *Frontiers in Human Neuroscience*
2. Heitzer, A.M., Piercy, J.C., Peters, B.N., Mattes, A.M., Klarr, J.M., Batton, B., **Ofen, N.**, Raz, S. (2020). Cumulative antenatal risk and kindergarten readiness in preterm-born preschoolers. *Journal of Abnormal Child Psychology*, 48, 1-12.
3. Olsen, R.K., Carr, V.A., Daugherty, A.M., ... **Ofen, N.**, ... Wisse, L.E.M. on behalf of the Hippocampal Subfields Group (2019). Progress update from the hippocampal subfield group. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring* 11, 439-449.
4. **Ofen, N.**, Yu, Q., Tang, L., Johnson, E.L. (2019). Memory and the developing brain: From description to explanation with innovation in methods. *Dev Cognitive Neuroscience* 36, 100613.
5. Johnson, E.L., Tang, L., Yin, Q., Asano, E., **Ofen, N.** (2018). Direct brain recordings reveal prefrontal cortex dynamics of memory development. *Science Advances* 4, eaat3702.
6. Progovac, L., Rakhlin, N., Angell, W., Liddane, R., Tang, L., **Ofen, N.** (2018). Neural correlates of syntax and proto-syntax: evolutionary dimension. *Frontiers in Psychology* 9, 2415.
7. Yu, Q., McCall, D.M., Homayouni, R., Tang, L., Chen, Z., Schoof, D., Nishimura, M., Raz, S., **Ofen, N.** (2018). Age-associated increase in mnemonic strategy use is linked to prefrontal cortex development. *NeuroImage* 181, 162-169.
8. Tang, L., Shafer, A.T., **Ofen, N.** (2018). Prefrontal cortex contributions to episodic memory development. *Cerebral Cortex* 28(9), 3295-3308.
9. Yu Q., Daugherty, A.M., Anderson, D.M., Brush, D., Hardwick, A., Lacey, W., Nishimura, M., Raz, S., **Ofen N.** (2018). Socioeconomic status linked to differences in hippocampal volume in childhood. *Developmental Science* 21(3), e12561.
10. Progovac, L., Rakhlin, N., Angell, W., Liddane, R., Tang, L., **Ofen, N.** (2018). Diversity of grammars and their diverging evolutionary and processing paths: Evidence from functional MRI study of Serbian. *Frontiers in Psychology* 9, Article 278.
11. Mohl, B., **Ofen, N.**, Jones L.L., Robin, A.L., Rosenberg, D.R., Diwadkar, V.A., Casey, J.E., Stanley, J.A. (2018). Novel reading index for classifying single word reading tendencies in non-skilled readers. *Applied Neuropsychology: Child* 7(4), 287-297.
12. Hayes, J.M., Tang, L., **Ofen, N.**, Damoiseaux, J.S. (2017). Subjective memory complaints associated with brain activation supporting successful memory encoding. *Neurobiol Aging* 60, 71-80.
13. Nishida, M., Korzeniewska, A., Crone, N., Toyoda, G., **Ofen, N.**, Brown, E.C., Asano, E. (2017). Brain network dynamics of the human articulatory loop. *Clinical Neurophysiology* 128, 1473-1487.
14. Daugherty, A.M., Flinn, R., **Ofen, N.** (2017). Hippocampal CA3-dentate gyrus volume uniquely linked to improvement in associative memory from childhood to adulthood. *NeuroImage* 153, 75-85.
15. Kambara, T., Brown, E.C., Jeong, J-W., **Ofen, N.**, Nakai, Y., Asano E. (2017). Spatio-temporal dynamics of short-term working memory maintenance and scanning of verbal information. *Clinical Neurophysiology* 128, 882-891.
16. Jones, L.L., Wurm, L.H., Calcaterra, R.D., **Ofen, N.** (2017). Integrative priming of compositional and locative relations. *Frontiers in Psychology* 8, Article 359.

17. Wisse, L., Daugherty, A.M., ... **Ofen, N.**, ..., la Joie, R. for the Hippocampal Subfields Group (2017). A harmonized segmentation protocol for hippocampal and parahippocampal subregions: why do we need one and what are the key goals? *Hippocampus* 27, 3-11.
18. **Ofen, N.**, Whitfield-Gabrieli, S., Chai, X.J., Schwarzlose, R.F., Gabrieli, J.D.E. (2017). Neural correlates of deception: lying about past events and personal beliefs. *Social Cognitive and Affective Neuroscience* 12, 116-127.
19. Raz, S., Piercy, J.C., Heitzer, A., Peters, B.N., Newman, J.B., DeBastos, A.K., **Ofen, N.**, Batton, B., Batton, G.G. (2016). Neuropsychological functioning in preterm-born twins and singletons at preschool age. *Journal of International Neuropsychological Society* 22, 865-877.
20. **Ofen, N.**, Yu Q.J., Chen, Z. (2016). Memory and the Developing Brain: Are insights from cognitive neuroscience applicable to education? *Current Opinions in Behavioral Sciences* 10, 81-88.
21. Daugherty, A.M., Bender, A.R., Raz, N., **Ofen, N.** (2016). Age differences in hippocampal subfield volumes from childhood to late adulthood. *Hippocampus* 26, 220-228.
22. Mohl, B., **Ofen, N.**, Jones, L., Robin, A., Rosenberg, D., Diwadkar, V.A., Casey, J.E., Stanley, J. (2015). Neural dysfunction in ADHD with reading disability during a word rhyming continuous performance task. *Brain & Cognition* 99, 1-7.
23. Daugherty, A.M., **Ofen, N.** (2015). That's a good one! Belief in the efficacy of mnemonic strategies contributes to age-related increase in associative memory. *J Exp Child Psychology* 136, 17-29.
24. Daugherty, A.M., Yu, Q.J., Flinn, R., **Ofen, N.** (2015). A Reliable and valid method for manual demarcation of hippocampal head, body and tail. *International Journal of Developmental Neuroscience* 41, 115-122.
25. Matsuzaki, N., Schwarzlose, R., Nishida, M., **Ofen, N.**, Asano, E. (2015). Upright face-preferential high-gamma responses in lower-order visual areas: evidence from intracranial recordings in children. *NeuroImage* 109, 249-259.
26. Chai, X.J., **Ofen, N.**, Gabrieli, J.D.E., Whitfield-Gabrieli, S. (2014). Selective development of anticorrelated networks in the intrinsic functional organization of the human brain. *Journal of Cognitive Neuroscience* 26, 501-513.
27. Chai, X.J., **Ofen, N.** (*CXJ NO equal contribution*), Gabrieli, J.D.E., Whitfield-Gabrieli, S. (2014). Development of deactivation of the default-mode network during episodic memory formation. *NeuroImage* 84, 932-938.
28. **Ofen, N.**, Shing, Y.L. (2013). From perception to memory: Changes in memory systems across the lifespan. *Neuroscience and Biobehavioral Reviews* 37, 2258-2267.
29. **Ofen, N.**, Chai, X.J., Schuil, K.D.I., Whitfield-Gabrieli, S. Gabrieli, J.D.E. (2012). The development of brain systems for successful memory retrieval of scenes. *Journal of Neuroscience* 32, 10012-10020.
30. **Ofen, N.** (2012). The development of neural correlates for memory formation. *Neuroscience and Biobehavioral Reviews* 36, 1708-1717.
31. Yoo, J.J., Hinds, O., **Ofen, N.**, Thompson, T.W., Whitfield-Gabrieli, S., Triantafyllou, C., Gabrieli J.D.E. (2012). When the brain is prepared to learn: Enhancing human learning using real-time fMRI. *NeuroImage* 59, 846-852.
32. Benjamin, C., Lieberman, D.A., Chang, M., **Ofen, N.**, Whitfield-Gabrieli, S., Gabrieli, J.D.E., Gaab, N. (2010). The influence of rest period instructions on the default mode network. *Frontiers in Human Neuroscience* 4, Article 218.

33. Chai, X.J., **Ofen, N.** (*CXJ NO equal contribution*), Jacobs, L.F., Gabrieli, J.D.E. (2010). Scene complexity: influence on perception, memory, and development in the medial temporal lobe. *Frontiers in Human Neuroscience* 4, Article 21.
34. **Ofen, N.**, Kao Y-C., Sokol-Hessner, P., Kim, H., Whitfield-Gabrieli, S., Gabrieli, J.D.E. (2007). Development of the declarative memory system in the human brain. *Nature Neuroscience* 10, 1198-1205.
35. **Ofen, N.**, Moran, A. & Sagi, D. (2007). Effects of trial repetition in texture discrimination. *Vision Research* 47, 1094-1102.
36. **Ofen-Noy, N.**, Dudai, Y. & Karni, A. (2003). Skill learning in mirror reading: How repetition determines acquisition. *Brain Research: Cognitive Brain Research* 17, 507-521.

Book Sections

- Diwadkar, V.A., **Ofen, N.** (2013). Disordered brain network function in adolescence. *Brain evolution, language, and psychopathology in schizophrenia* pp. 73-95 (P. Brambilla, A. Marini, Eds.) Psychology Press, Taylor & Francis.
- Ofen, N.**, co-authored with Ljiljana Progovac (2015). Appendix: Testing Grounds: Neuroimaging. *Evolutionary Syntax* pp. 211-218. (Ljiljana Progovac) Oxford University Press.

TEACHING

- Wayne State University** 2011 – ongoing
 PSY-1010: Introduction to Psychology (Undergraduate, 400 students)
 PSY-8050: Cognitive Neuroscience (Graduate)
 PSY-7991: Current Topics in Behavioral Neuroscience, Psychology (Graduate)
 PYC-7140: Fundamentals of Neuroimaging (Graduate)
 PYC-7515: Imaging, Neurodevelopment and Psychiatric Disorders (Graduate)
- Northeastern University**, Department of Psychology, Boston, MA Spring 2010
 PSYC-4366: Cognition (Lecturer, Undergraduate, 75 students)
- Harvard University**, Faculty of Arts and Sciences, Cambridge, MA Fall 2008
 Neurobiology130: Drugs and the Brain (Teaching Fellow, w/Steven Hyman, Undergraduate)
- Massachusetts Institute of Technology**, Brain and Cognitive Sciences Spring 2006, 2008
 9.00: Introduction to Psychology (Guest Lectures, Undergraduate)
- Open University Israel**, Ascolot, Tel Aviv, Israel Fall, Spring 1999 – 2002
 Introduction to Brain Research, Advances in Brain Research (Lecturer, Continued Education)
- Weizmann Institute of Science**, Rehovot, Israel
 Neurobiology of Memory (Guest Lectures, Graduate) Spring 2002
 Neurophysiology: Intact animal electrophysiology (Lab Instructor, Graduate) Summer 1998
- University of Haifa**, Psychology and Interdisciplinary Honors Program, Haifa, Israel 1994, 1995
 Physiological Basis of Behavior (Peer Mentor, Undergraduate)
 Philosophy of Science (Teaching Assistant, Undergraduate)

MENTORING

Thesis/Qualifying/Dissertation Chair:

- Qin Yin, Behavioral and Cognitive Neuroscience, Psychology (Fall 2016-present)
 Roya Homayouni, Behavioral and Cognitive Neuroscience, Psychology (Fall 2016-present)
 Qijing Yu, Behavioral and Cognitive Neuroscience, Psychology (Fall 2012-present)
 Lingfei Tang, Cognitive-Developmental-Social, Psychology (Fall 2012-2019, Graduated 2019)

Dana McCall, Clinical, Psychology (Fall 2012-2018, Graduated 2019)
Jonatha Nathan, Translational Neuroscience Program, Basic Sciences (Graduated 2013)

Postdoctoral trainees:

Elizabeth Johnson, PhD UC Berkeley (Winter 2017-present)
Andrea Shafer, PhD U Alberta (Winter 2015-Fall 2017)
Rebecca Schwarzlose, PhD MIT (2014-2015)
Mayu Nishimura, PhD McMaster (2013-2014)

Thesis/Qualifying/Dissertation or Mentoring Committee Member:

Raymond Vivano, Psychology: Behavioral Cognitive Neuroscience (Dissertation Committee)
Jessica Hayes, Psychology: Behavioral Cognitive Neuroscience (MA Committee)
Nolan O'Hara, Translational Neuroscience Program (Qualifying & Dissertation Committee) *
Jonathan Lynn, Translational Neuroscience Program (Qualifying & Dissertation Committee)
Youjin Jong, Psychology: Behavioral Cognitive Neuroscience (Mentoring Committee)
Brian Silverman, Translational Neuroscience Program (Qualifying & Dissertation Committee) *
Chaitali Anand, Translational Neuroscience Program (Qualifying & Dissertation Committee) **
Jonathan Sober, Psychology: Clinical (IOG Mentoring Committee & Dissertation Committee)
Diane Sobecki-Ryniak, PhD Candidate, College of Nursing (Graduated 2019)
Muzamil Arshad, MD/PhD, Translational Neuroscience Program (Graduated 2017) **
Ana Daugherty, PhD, Psychology: Behavioral Cognitive Neuroscience (Graduated 2015) *
Brianna Mohl, PhD, Translational Neuroscience Program (Graduated 2015) *
Andrew Bender, PhD, Psychology: Behavioral Cognitive Neuroscience (Graduated 2014)
Peng Yuan, PhD, Psychology: Behavioral Cognitive Neuroscience (Graduated 2013)
Yiqin Yang, PhD, Psychology: Behavioral Cognitive Neuroscience (Graduated 2013)
Submitted a **funded or *non-funded NRSA; Submitted a #non-funded NSF.

Graduate Level Directed Studies and Rotation Sponsorship:

Reyhaneh Jafari (Winter 2018); Chatali Anand (Sp/Su 2015); Lingfei Tang (Fall 2014); Hilary Marusak (Fall 2013); Jonatha Nathan (Fall 2012)

Undergraduate Honors Thesis Mentor:

Asiimwe Naijuma, *'Metamemory influences on associative memory in children'*, in progress.
Natalia Gumma (PSY), *'Linking spatial navigation and hippocampal development'*, 2020.
Da'Jonae Foster (U Detroit Mercy, BUILD Scholar), *'Working memory development'*, 2019.
Rabeya Ali (PSY), *'Vocabulary mediates the development of associative memory'*, 2019.
Sruthi Ramesh (BIO), *'Schizophrenia related differences in hippocampal subfield volumes'*, 2019.
Urvashi Gupta (CHEM), *'KIBRA polymorphism and hippocampal volume in development'*, 2019.
Salma Hassanieh, (CHEM) *'Relevance of BDNF genotype in hippocampal subfield volumes and memory function in development'*, 2018.
Sanaya Irani (PSY), *'Linking spatial navigation and hippocampal development'*, 2017.
Sydney Ann Howard (PSY), *'Development of Spatial Navigation'*, 2016.
Nikhil Adapa (BIO), *'Neural correlates of the development of implicit memory'*, 2016.
Priya Ann Sam (PSY), *'Capacity and chunking in verbal memory'*, 2016.
Sadia Ghazi (PSY), *'Semantic representation of visual stimuli'*, 2015.

Undergraduate Research Opportunity Project (UROP) award Sponsorship:

Gabrielle (Gigi) Gordon, *'In search of a bridge between socioeconomic status and cognitive functioning'*, 2019-2020.
Sruthi Ramesh, *'Correlation between individual variability in false memory and variability in structural components of the hippocampus'*, 2017.
Mohsyn Malik, *'Electrocortigraphy (ECoG) study: theta-gamma coupling between MTL and PFC regions during memory encoding in children'*, 2017.
Sanaya Irani, *'Neurocognitive development of spatial navigation ability'*, 2016.

Mahnour Ahsan, 'How do children process information differently than adults in visual recognition of objects and scenes?' 2016.

Ryan Abbott, 'Visual memory in children and adults: effects of test and stimuli similarity, 2014.

Summer Undergraduate Research Opportunity Sponsorship:

Gabrielle Gordon (BUILD Scholar) 2018, 2019 (ongoing); Asiimwe Najuma (BUILD Scholar), 2018, 2019 (ongoing); Mina Spryszak (BUILD Scholar), 2018, 2019 (ongoing); Da' Jonae Foster (BUILD Scholar), 2017, 2018 (ongoing); Tiara Perkins (BUILD Scholar), 2017; Sanaya Irani (SURE), 2016; Hager Al-Khafani (WSU-APA Scholar), 2016; Zachary Popovich (SURE), 2015; Abhinav Katti (SURP), 2014; Nikhil Adapa (SURE), 2013; Kirtan Dasai (SURE), 2013.

PROFESSIONAL MEMBERSHIP

2017-present	Memory Disorders Research Society (MDRS)
2012, 2017-present	Flux: Developmental Cognitive Neuroscience [2017 Program Committee]
2011, 2013-present	Cognitive Development Society (CDS)
2008-present	Society for Research in Child Development (SRCD)
2007, 2017-present	Israeli Society for Neuroscience
2005-present	Organization of Human Brain Mapping (OHBM)
2004-present	Society for Neuroscience (SFN)
2002-present	Cognitive Neuroscience Society (CNS) [Diversity Outreach Training Committee]

SERVICE ACTIVITIES FOR PROFESSIONAL ASSOCIATIONS

Panelist, National Science Foundation (NSF)

NIH Special Emphasis Study Section member (Cognition Perception, Language Communication)

Ad Hoc Grant Reviewer, UK Economic and Social Research Council (ESRC)

Ad Hoc Grant Reviewer, National Science Foundation (NSF)

Ad Hoc Proposal Reviewer, Singapore Research Excellence Technological Enterprise (CREATE)

Ad Hoc Grant Reviewer, Netherlands Organisation for Scientific Research (NWO)

Ad Hoc Grant Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC)

Ad Hoc Grant Reviewer, National Institute for Psychobiology in Israel

Review Editor, *Frontiers in Cognitive Sciences*

Ad-hoc Journal Reviewer: Aging, Neuropsychology and Cognition, Behavioral Neuroscience, Brain and Cognition, Cerebral, Cortex, Child Development, Cognitive, Affective, Behavioral Neuroscience, Cognitive Development, Current Opinion in Behavioral Sciences, Developmental Cognitive Neuroscience, Developmental Psychology, Developmental Science, eNeuro, Hippocampus, Frontiers in Psychology, Frontiers in Human Neuroscience, Human Brain Mapping, J Clinical and Experimental Neuropsychology, J Cognitive Neuroscience, J Experimental Child Development, J International Neuropsychological Society, J Neurological Sciences, J Neurodevelopmental Disorders, J Neuroscience, Memory, Nature Communications, NeuroImage, Neuron, Neuropsychologia, Neuroreport, Neuroscience and Biobehavioral Reviews, PLOS One, Psychology and Aging, Social Cognitive and Affective Neuroscience, Social Neuroscience, Trends in Cognitive Sciences, Visual Cognition, Wiley Interdisciplinary Review: Cog Science

Professional Society Service:

Program Committee, Flux: Society for Developmental Cognitive Neuroscience (2016-2017)

Program Reviewer, Society for Research in Child Development (SRCD) (2010, 2012, 2014, 2016, 2018)

Abstract Reviewer, Organization for Human Brain Mapping (OHBM) (2008 – 2015)

Program Reviewer, Cognitive Development Society (CDS) Biannual Meeting (2015, 2017)

Invited Chair, Learning and Memory Oral Session (OHBM) annual meeting (2014, 2019)

Invited Chair, Flux: Society for Developmental Cognitive Neuroscience (2017)

Invited Chair, Nano Symposium, Society for Neuroscience Annual Meeting (2019)

INVITED TALKS (selected list, past ~10 years)

03/2020 (postponed): Ohio State University, Psychology Department, Columbus, OH
03/2020 (postponed): Leibniz Institute for Neurobiology, Magdeburg, Germany
10/2019 Memory Disorders Research Society Annual Meeting, New York, NY
07/2019 Cognitive Sciences Colloquium, Central European University, Budapest, Hungary
06/2019 ELSC Seminar, ELSC, Hebrew University in Jerusalem, Jerusalem, Israel
05/2019 Israeli Neuroimaging Inaugural Meeting, ELSC, Jerusalem, Israel
05/2019 Hebrew University in Jerusalem, Psychology Department Seminar, Jerusalem, Israel
05/2019 Basque Center on Cognition Brain and Language Seminar, BCBL, San Sebastian, Spain
04/2019 The Interdisciplinary Center, Department of Psychology, Herzliya, Israel
02/2019 Zlotowski Neuroscience Center Colloquium, Ben Gurion University, Beer Sheva, Israel
01/2019 Goethe University, Psychology Departmental Colloquium, Frankfurt, Germany
11/2018 Haifa University, Psychology Departmental Colloquium, Haifa, Israel
11/2018 Weizmann Institute of Science, Neurobiology Colloquium, Rehovot, Israel
10/2018 Hippocampal Subfield Segmentation Working Group, DZNE, Magdeburg, Germany
05/2018 Eastern Michigan University, Midwest Neuropsychology Group Meeting, Ypsilanti, MI
04/2018 UC Davis, Memory Development Meeting, Davis, CA
11/2017 Ebbinghaus Empire Lecture Series, University of Toronto, Toronto, Canada
11/2017 Psychology Colloquium, Wayne State University, Detroit, MI
10/2017 Interdisciplinary Conference on Memory, Wayne State University, Detroit, MI
10/2017 Neurology Grand Rounds, Wayne State University, Detroit, MI
09/2017 Flux: Developmental Cognitive Neuroscience Meeting, Portland, OR
09/2017 Memory Disorders Research Society Annual Meeting, Chicago, IL
06/2017 Epilepsy Conference, Wayne State University, Detroit, MI
07/2016 International Conference of Memory, Budapest, Hungary
03/2016 The Ohio State University, Developmental Colloquium, Columbus, OH
03/2016 University of Arizona, Cognitive Science Program Colloquium, Tucson, AZ
10/2015 Cognitive Development Society Preconference, Columbus, OH
09/2015 University of Michigan, Functional MRI Seminar, Ann Arbor, MI
04/2015 Stanford University, Cognitive & Systems Neuroscience Seminar, Stanford, CA
03/2015 Society for Research in Child Development, Symposium Speaker, Philadelphia, PA
02/2015 Perinatal Research Branch, Developmental Cognitive Neuroscience Seminar, Detroit, MI
07/2014 International Neuropsychological Society, Symposium Speaker, Jerusalem, Israel
06/2014 American Academy Clinical Neuropsychologists, Workshop leader, New York, NY
12/2013 WSU, Grand Rounds - Department of Pediatrics, Detroit, MI
10/2013 WSU, Institute of Gerontology, Professional Development Seminar, Detroit, MI
10/2013 UT Dallas Vital Longevity Center, Colloquium Speaker, Dallas, TX
05/2013 UC San Francisco, NeuroLens Seminar, San Francisco, CA
05/2013 Society of Biological Psychiatry, Symposium Chair and Speaker, San Francisco, CA
04/2013 Society for Research in Child Development, Chair, Discussant and Speaker, Seattle, WA
02/2013 University of Michigan, fMRI special lecturer series, Ann Arbor, MI
01/2013 WSU, Department of Engineering Seminar, Detroit, MI
05/2012 Max Plank Institute for Human Development, Berlin, Germany
04/2012 WSU, Institute of Environmental Health Sciences Seminar, Detroit, MI
03/2012 WSU, Grand Rounds - Department of Pediatrics, Detroit, MI
01/2012 University of Michigan, The Center for Human Growth and Development, Ann Arbor, MI
01/2012 Michigan State University, Psychology Department Colloquium, East Lansing, MI
12/2011 WSU, Translational Neuroscience Program Seminar, Detroit, MI
10/2011 Baltes International Conference, Invite Speaker, Detroit, MI
10/2011 Cognitive Development Society's Meeting, Invited Speaker, Philadelphia, PA
10/2011 WSU, Psychology Department Colloquium, Detroit, MI
04/2011 Society for Research in Child Development, Chair/Speaker, Montreal, Canada

05/2011 Brandeis University, Greater Boston Cognitive Development Workshop, Waltham, MA
 08/2010 Northeastern University, Language & Cognition Summer Series, Psychology, Boston, MA
 06/2010 Haifa University, Psychobiology & Neuropsychology Seminar, Psychology, Haifa, Israel
 06/2010 Inter Disciplinary Center - IDC, The New School of Psychology, Herzliya, Israel
 05/2010 Albert Einstein School of Medicine, Cognitive Neuroscience Colloquium, New York, NY
 04/2010 Wayne State University, Merrill Palmer Skillman Institute, Detroit, MI
 03/2010 Harvard Medical School, Brigham and Women Hospital, Golby Laboratory, Boston, MA

CONFERENCE PRESENTATIONS (selected list, past 5 years)

[* indicates a student working under my mentorship; first author = lead, last author = senior]

Homayouni, R., Yu, Q., Ramesh, S., Daugherty, A.M., **Ofen, N.** (2020). Test re-test reliability of hippocampal subfield volume measures in a developmental sample: implications for longitudinal developmental studies. *Cognitive Neuroscience Society Meeting*, Boston, MA (Virtual).

Pruitt, P., Tang, L., Hayes, J., **Ofen, N.**, Damoiseaux, J. (2020). Task-context functional connectivity differences across the lifespan. *Organization for Human Brain Mapping*, Montreal, Canada (Virtual).

Yu Q.*, Homayouni, R.*, Ramesh, S.*, **Ofen, N.** (2019). Test re-test reliability of hippocampal subfield volume measures in developing sample: Implications for longitudinal developmental studies. *Society for Neuroscience Meeting*, Chicago, IL.

Johnson, E.*, Yin, Q.*, Tang, L.*, Asano, E., **Ofen, N.** (2019). Medial temporal and frontotemporal theta rhythms predict subsequent memory in the developing brain. *Society for Neuroscience Meeting*, Chicago, IL.

Tang, L.*, Johnson, E.L.*, Yin, Q.*, McCall, D.*, Ramesh, S.*, Thompson, B.*, Agarwal, R., Luat, A., Asano E., **Ofen, N.** (2019). Correspondence between bold signal and iEEG high-frequency activity during memory encoding in a pediatric sample. *Society for Neuroscience Meeting*, Chicago, IL.

Yin, Q.*, Johnson, E.*, Tang, L.*, Auguste, K.L., Knight, R.T., Asano, E., **Ofen, N.** (2019). Direct brain recordings reveal the involvement of the occipital cortex in memory formation in children. *Society for Neuroscience Meeting*, Chicago, IL.

Carr, V., Berron, D., Daugherty, A.M., Olsen, R.K., Wisse, L., Amunts, K.M., Augustinack, J.C., Bakker, A., Bender, R., Boccardi, M., Bocchetta, M., Chakravarty, M., Chetelat, G., De flores, R., DeKraker, J., Ding, S.-L., Insausti, R., Kedo, O., Mueller, S., **Ofen, N.**, Palombo, D.J., Raz, N., Stark, C.E., Wang, L., Yushkevich, P., Yu, Q.*, La Joie, R. (2019). Hippocampal subfields group progress update: harmonization of a protocol for segmenting human hippocampal subfields on MRI. *Society for Neuroscience Meeting*, Chicago, IL.

Daugherty, A.M., Yu, Q., R. Bender, R., Tang, L., Dahle, C.L., **Ofen, N.**, Raz, N. (2019). Age-related shrinkage of medial temporal lobe subfields is differentially exacerbated by arterial hypertension: a six-year longitudinal study of healthy adults. *Society for Neuroscience Meeting*, Chicago, IL.

Wisse, L., Berron, D., Olsen, R., Daugherty, A., Amunts, K., Augustinack, J., Bakker, A., Bender, A., Boccardi, M., Bocchetta, M., Chakravarty, M.M., Chetelat, G., Robin de Florès, DeKraker, J., Ding, S.L., Mueller, S., Ofen, N., Polombo, D., Raz, N., Stark, C., Wang, L., Yushkevich, P., Yu, Q., Carr, V., La Joie, R. (2019). The development of a valid, reliable, harmonized segmentation protocol for hippocampal subfields. *Alzheimer Association International Conference (AAIC)*, Los Angeles, CA.

Pruitt, P., Tang, L., Hayes, J., Ofen, N., Damoiseaux, J. (2019). Differential coupling between subsequent memory BOLD response and performance across the life-span. *Organization for Human Brain Mapping*, Rome, Italy.

Olsen, R., Daugherty, A., La Joie, R., Wisse, L., Amunts, K., Augustinack, J., Bakker, A., Bender, A., Berron, D., Boccardi, M., Bocchetta, M., Chakravarty, M.M., Chetelat, G., Robin de Florès, DeKraker, J., Ding, S.L., Mueller, S., Ofen, N., Polombo, D., Raz, N., Stark, C., Wang, L., Yushkevich, P., Yu, Q., Carr,

- V. (2019). The development of a valid, reliable, harmonized segmentation protocol for the hippocampal subfields. *Organization for Human Brain Mapping*, Rome, Italy.
- Tang, L.*, France, J.*, Yu, Q.*, Yin, Q.*, Homayouni, R.*, Thompson, B.*, Ramesh, S.*, **Ofen, N.** (2019). Assessing the reliability of fMRI measures in characterizing memory development. *Cognitive Neuroscience Society Meeting*, San Francisco, CA.
- Yin, Q.*, Johnson, E.L.*, Tang, L.*, Asano, E., **Ofen, N.** (2019). Scene complexity visual alpha modulations facilitate memory development. *Cognitive Neuroscience Society Meeting*, San Francisco, CA.
- Schwarzlose, R.F.*, Yu, Q.*, Ramesh, S.*, Homayouni, R.*, Chen, Z., **Ofen, N.** (2019). In the Blink of an eye: visual processing, hippocampal subfields, and memory function in children. *Society for Research on Child Development meeting*, Baltimore, MD.
- Yu, Q.*, Ramesh, S.*, Thompson, B.*, Homayouni, R.*, Chen, Z., Nishimura, M., **Ofen, N.** (2019). Roles of the hippocampus and prefrontal cortex in young children. *Society for Research on Child Development meeting*, Baltimore, MD.
- McCall, D.M., Yu, Q., Piercy, P., Heitzer, A., Raz, S., **Ofen, N.** (2019). Hippocampal volumetry and episodic memory in preterm born children. *International Neuropsychological Society Meeting*, New York, NY.
- Carr, V., La Joie, R., Olsen, R., ... **Ofen, N.**, ...Daugherty, A., on behalf of the Hippocampal Subfield Group (2018). Preliminary results of the hippocampal subfields group harmonized protocol for segmenting hippocampal subfields on 3T MRI. *Society for Neuroscience Meeting*, San Diego, CA.
- Schwarzlose, R., Ramesh, S.*, Yu, Q. *, Homayouni, R. *, Chen, Z., **Ofen, N.** (2018). Poor long-term memory in children: A case of mistaken identity? *6th Annual Flux Congress*, Berlin, Germany.
- Yu Q.*, Homayouni, R. *, Ramesh, S. *, **Ofen, N.** (2018). Memory development: Complementary roles of the hippocampus and prefrontal cortex. *Annual Flux Congress*, Berlin, Germany. (Oral presentation, *Flux travel award*)
- Tang, L. *, Yu, Q. *, Homayouni, R. *, Ramesh, S. *, Thompson, B. *, Chen, Z., **Ofen, N.** (2018). Development of associative memory: A latent change score model. *Flux: Little Brain Big Data Conference*, U North Carolina at Chapel Hill, NC.
- Yu, Q.*, Homayouni, R.*, Ramesh, S.*, **Ofen, N.** (2018). Hippocampal DG/CA3 volume is linked to associative memory in young children. *International Conference on Learning and Memory*, Huntington Beach, CA.
- Johnson, E.L.*, **Ofen, N.** (2018). Direct brain recordings from children and adolescents reveal dynamic PFC underpinnings of memory function. *International Conference on Learning and Memory*, Huntington Beach, CA.
- Yu, Q.*, Homayouni, R.*, Ramesh, S.*, Thompson, B.*, Nishimura, M.*, **Ofen, N.** (2018). Functional specialization of hippocampal subfields in young children. *Cognitive Neuroscience Society Meeting*, Boston, MA.
- Johnson, E.L.*, Yin Q.*, Tang L.*, Asano, E., **Ofen, N.** (2018). Direct brain recordings from children and adolescents reveal dynamic PFC underpinnings of memory function. To be presented at the *Cognitive Neuroscience Society Meeting*, Boston, MA.
- Johnson, E.L.*, Yin Q.*, Tang L.*, Malik, M.*, Asano, E., **Ofen, N.** (2017). Direct brain recordings from children and adolescents reveal diverse patterns of PFC involvement in memory formation. *Society for Neuroscience Meeting*, Washington, DC.
- Tang, L. *, Shafer, A.T. *, **Ofen, N.** (2017). Prefrontal cortex contributions to episodic memory development. Symposium, *Biennial Meeting of the Society for Research in Child Development*, Austin, TX.

Yin, Q.* , Tang, L.* , Malik, M.* , Shafer, A.T.* , Chen, D.* , Asano E., **Ofen, N.** (2017). An electrocorticography (ECoG) study of memory formation in children. *Cognitive Neuroscience Society Meeting*, San Francisco, CA.

Yu, Q.* , Homayouni, R.* , Shafer, A.T.* , **Ofen, N.** (2017). Developmental difference in hippocampal segmentation using FreeSurfer compared with manual demarcation. *Cognitive Neuroscience Society Meeting*, San Francisco, CA.

Tang, L.* , Shafer, A.T.* , Liddane, R.* , Alkhafaji, H.* , **Ofen, N.** (2017). Age-related differences in the functional connectivity of the medial temporal lobe support successful memory encoding. *Cognitive Neuroscience Society Meeting*, San Francisco, CA.

Anderson, D.M.* , Yu, Q.* , Roberson, J., Piercy, J.* , Heitzer, A.* , Raz, S., **Ofen, N.** (2017). Systematic review of the relationship between hippocampal volume and memory performance in preterm-born individuals. *International Neuropsychological Society Meeting*, New Orleans, LA.

Jones, L., Calcaterra, R., **Ofen N.** (2016). Complementary role activation and perceptual simulation in compositional and locative relations. *57th Annual Meeting of the Psychonomic Society*, Boston, MA.

Kambara, T., Brown, E.C., Jeong, J.W., **Ofen, N.**, Nakai, Y., Asano, E. (2016). Spatiotemporal dynamics of short-term working memory maintenance and scanning of verbal information. *Society for Neuroscience Meeting*, San Diego, CA.

Daugherty, A.M., Bender, A.R., Yu, Q.* , Shafer, A.T.* , Arshad, M., **Ofen, N.**, Raz, N., (2016). Advanced age, vascular risk and inflammation exacerbate differential shrinkage of hippocampal subfields in healthy adults: a two-year longitudinal study. *Society for Neuroscience*, San Diego, CA.

Ofen, N., Daugherty, A.M.* (2016). Age-related differences in dentate gyrus volume uniquely linked to improvement in associative memory. *International Conference on Memory*, Budapest, Hungary.

Tang, L.* , Shafer, A.T.* , Yu, Q.* **Ofen, N.** (2016). Prefrontal cortex contributions to episodic memory development. *International Conference on Memory*, Budapest, Hungary.

Hayes, J.M., Tang, L.* , **Ofen, N.**, Damoiseaux, J.S. (2016). Subjective memory complaints are associated with brain activation supporting successful memory encoding. *Alzheimer's Association International Conference*, Toronto, Canada.

Tang, L.* , Shafer, A.T.* , Yu, Q.* , Liddane, R.* , **Ofen, N.** (2016). Mapping prefrontal cortex contribution to the development of memory formation. *Cognitive Neuroscience Society Meeting*, New York, NY.

Anderson, D.M.* , Yu, Q.* , Piercy, J.* , Heitzer, A.* , Raz, S., **Ofen, N.** (2016). Assessing the relationship between episodic memory and the volume of the hippocampus in young children born prematurely. *International Neuropsychological Society Meeting*, Boston, MA.

Korzeniewska, A., Crone, N., Nishida, M., Toyoda, G., **Ofen, N.**, Brown, E.C., Asano, E. (2015). Dynamic model of articulatory loop system interactions in human brain. *American Epilepsy Society Meeting*, Philadelphia, PA.

Yu, Q.* , Shafer, A.T.* , Anderson, D.M.* , Heitzer, A.* , Piercy, J.* , Brush, D.* , Angell, W.H.* , Raz, S., **Ofen, N.** (2015). Neural correlates of spatial navigation in young children: Linking brain volumetry and performance on a virtual Morris Water Maze task. *Society for Neuroscience Meeting*, Chicago, IL.

Shafer, A.T.* , Schwarzlose, R.F.* , Asano, E., **Ofen, N.** (2015). Spatial-temporal dynamics of memory formation in children: An electrocorticography (ECoG) investigation. *Society for Neuroscience Meeting*, Chicago, IL.

Yu, Q.* , Anderson, D.M.* , Nishimura, M.* , **Ofen, N.** (2015). Medial temporal lobe maturation related to the development of verbal memory. *Cognitive Neuroscience Society Meeting*, San Francisco, CA.

Asano, E., Matsuzaki, N., Schwarzlose, R.F.* , Nishida, M., **Ofen, N.** (2015). Upright face-preferential high-gamma responses in lower-order visual areas: evidence from intracranial recordings in children. *Cognitive Neuroscience Society Meeting*, San Francisco, CA.

Ofen, N., Daugherty, A.M. (2015). Regional hippocampus measures through development. Symposium, *Biennial Meeting of the Society for Research in Child Development*, Philadelphia, PA.

Chai, X.J., **Ofen, N.**, Martin, R.E.*, Whitfield-Gabrieli, S. Gabrieli, J.D.E. (2015). Development of amygdala and hippocampal resting-state functional connectivity between 8 to 24 years of age. Symposium, *Biennial Meeting of the Society for Research in Child Development*, Philadelphia, PA.

Anderson, D.M.*, Daugherty, A.M.*, Brush, D.*, Piercy, J.*, Heitzer, A.*, Raz, S., **Ofen, N.** (2015). Age-related differences in free recall and mnemonic strategy use. *International Neuropsychological Society Meeting*, Denver, CO.

SELECT LIST OUTREACH ACTIVITIES

2019	Outreach activity delivering talks in local elementary and middle-schools
2017 -	STEM Day (held annually, 1000 middle school children visit WSU, Detroit, MI)
2015, 2016	Go-GIRL, WSU program, workshop organizer 'your brain on STEM' (sponsored by NIH)
2013-	Brain Day (held annually at the Michigan Science Center, Detroit, MI)
2013-	Future Docs (held annually, organized by WSU School of Medicine, Detroit, MI)
2008-2011	Outreach Committee, MIT Department of Brain and cognitive Sciences
2001-2003	Lecturer, "Bashaar", Academic Community for the Israeli Society
1998-2003	Head, "Summer Camp for Science, Music and Art", Weizmann Institute of Science
1999- 2003	Lecturer, Youth Activity Section, Weizmann Institute of Science

LIST OF SELECT MENTIONS IN POPULAR OR PROFESSIONAL MEDIA

<http://wis-wander.weizmann.ac.il/science-education-science-culture/mirrors-and-memory>

<http://www.economist.com/node/9616794>

<http://news.mit.edu/2007/memory-0805>

<http://research.wayne.edu/news.php?id=9510>

<https://psychcentral.com/news/2012/07/25/memory-connections-change-from-childhood-to-adulthood/42218.html>

<https://www.med.wayne.edu/news/2014/04/09/national-academy-of-sciences-selects-dr-noa-ofen-as-kavli-frontiers-fellow/>

<http://www.news-medical.net/news/20160713/Researcher-receives-2419-million-grant-to-study-development-of-memory-networks-in-children.aspx>

<https://www.sciencenewsforstudents.org/article/teen-brains-may-have-advantage-better-learning>

<https://sciencetrends.com/why-are-you-better-than-your-kids-in-remembering-the-grocery-list/>

https://www.eurekalert.org/pub_releases/2018-12/ws-u--nms121918.php

<https://www.ohbmbrianmappingblog.com/blog/bringing-great-minds-together-and-signaling-to-ohbm-in-rome-human-brain-mapping-israel-1st-conference>

<https://www.fatherly.com/health-science/childhood-memory-crisis-pandemic-natural-disaster/>