

## Noa Ofen, Ph.D.

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### Academic Appointments

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Assistant Professor (2011 – present)  
Wayne State University, Institute of Gerontology, Merrill Palmer Skillman Institute, Pediatrics

Postdoctoral Associate (2005 – 2011)  
Massachusetts Institute of Technology, Department of Brain and Cognitive Sciences

Lecturer (2010)  
Northeastern University, Psychology Department

Teaching Fellow (2008 – 2009)  
Harvard University, Neurobiology Department

Postdoctoral Fellow (2004 – 2005)  
Stanford University, Psychology Department

### Education

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Ph.D., Weizmann Institute of Science (2004)  
Cognitive Neuroscience, Neurobiology (advisors: Yadin Dudai, Avi Karni)

M.Sc., Weizmann Institute of Science (1998)  
Cognitive Neuroscience, Neurobiology (advisors: Yadin Dudai, Menahem Segal)

B.A., University of Haifa (1996)  
Psychology and Honors Program

### Awards and Honors

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Graduate Mentor Award, Wayne State University (2012-2013)

Science Spot appreciation award, MIT School of Science (2009)

Travel Award, Organization of Human Brain Mapping, Annual Meeting (2006)

Fellowship, RIKEN Brain Science Institute, Summer Lecture Course, Saitama, Japan (2004)

Fellowship, Summer Institute in Cognitive Neuroscience, Lake Tahoe, CA (2003)

Fellowship, Summer Institute in Cognitive Neuroscience, Dartmouth College, NH (2001)

Student Travel Fellowship, Katzir Katchalsky (2001)

Joseph Brainin and Sally Brainin Scholarship (1998 - 2003)

Inez P. and David N. Myers Scholarship (1998 - 2003)

Sylvia and Aaron Scheinfeld Scholarship (1998 - 2003)

Feinberg Graduate School Scholarships (1995 - 1998)

Excellence Scholarships, University of Haifa (1993 - 1995)

Interdisciplinary Honor Program, University of Haifa (1993 - 1995)

## Publications

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- 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.
- Ofen, N.** (2012). The development of neural correlates for memory formation. *Neuroscience and Biobehavioral Reviews* 36, 1708-1717.
- 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.
- 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, 218:1-9.
- Chai\*, X.J., **Ofen\***, N., Jacobs, L.F., Gabrieli, J.D.E. (2010). Developmental changes in medial temporal lobe associated with forming complex memories. *Frontiers in Human Neuroscience* 4, 21:1-10. (*\*equal contribution*)
- 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.
- Ofen, N.**, Moran, A. & Sagi, D. (2007). Effects of trial repetition in texture discrimination. *Vision Research* 47, 1094-1102.
- Ofen-Noy, N.**, Dudai, Y. & Karni, A. (2003). Skill learning in mirror reading: How repetition determines acquisition. *Brain Res. Cog. Brain Res.* 17, 507-521.

## Manuscripts

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- \*Chai, X.J., \***Ofen, N.**, Gabrieli, J.D.E., Whitfield-Gabrieli, S. Development of resting-state functional connectivity of the default network: maturation of anticorrelated networks (*\*equal contribution*). *in revision*
- Ofen, N.**, Gray, M.E., Hutchinson, J.B., Chai, X.J., Mazaika, P., Whitfield-Gabrieli S., & Gabrieli, J.D.E. Lying about past events and personal beliefs. *in revision*
- Ofen, N.**, Shing, Y.L. From Perception to Memory: Changes in Memory Systems Across the Lifespan. *in prep*
- Ofen, N.**, Chai, X.J., Mietzsch, C., Gabrieli, J.D.E. Neurocognitive development of detailed memory. *in prep*

## Conference presentations (\*Oral)

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- Ofen, N.**, Chai, X.J., Mietzsch, C., Gabrieli, J.D.E. (2011). Neurocognitive development of detailed memory formation. Society for Neuroscience Meeting, Washington, DC.
- Chai, X.J., **Ofen, N.**, Mietzsch, C., Gutierrez, E., Gabrieli, J.D.E., Whitfield-Gabrieli, S. (2011). Increased anticorrelation between the default mode and task-positive network regions during development. Society for Neuroscience Meeting, Washington, DC.
- \***Ofen, N.** (2011). The development of memory systems in the human brain. Invited Symposia, Cognitive Development Society Biennial Meeting, Philadelphia, PA
- Chai, X., **Ofen, N.**, Gutierrez, E., Ghosh, S., Gabrieli, J.D.E (2011). White matter maturation in prefrontal cortex contributes to the development of declarative memory, OHBM meeting, Quebec, Canada
- Martin, R.E., Chai, X.J., Patel, S., Morin, K.M., Gabrieli, J.D.E. **Ofen, N.** (2011). Relationships between development, cortical thickness, and memory. CNS annual meeting, San Francisco, CA.
- \***Ofen, N.**, Chai, X.J., Gabrieli, J.D.E. (2011). The development of brain systems supporting objective and subjective for declarative memory. Paper Symposium, Chair and Presenter, Biennial meeting of the Society for Research in Child Development, Montreal, Canada.

- Ofen, N.** Chai, X.J. & Gabrieli, J.D.E. (2010). Memory retrieval limits the contribution of prefrontal cortex to successful encoding, CNS annual meeting, Montreal, Canada.
- Ofen, N.** Chai, X.J. & Gabrieli, J.D.E. (2009). The development of memory retrieval in the brain. Society for Neuroscience Meeting, Chicago, IL.
- Chai, X.J., **Ofen, N.** & Gabrieli, J.D.E. (2009). Developmental changes in the medial temporal lobe for the encoding of high complexity scenes. Society for Neuroscience Meeting, Chicago, IL
- \***Ofen N** (2009). The development of declarative memory systems in the brain. *Frontiers in Human Neuroscience*. Conference Abstract: Conference on Neurocognitive Development. *doi: 10.3389/conf.neuro.09.2009.10.020*
- Schuil, K.D.I., **Ofen, N.**, Chai, X.J., Hedden, T., Whitfield-Gabrieli, S., Glover, G.H. & Gabrieli, J.D.E. (2009). Comparison of estimations of the hemodynamic response function in children adolescents and young adults, OHBM meeting, San Francisco, CA.
- \***Ofen, N.** (2009). The development of brain systems for declarative memory. Biennial meeting of the Society for Research in Child Development, paper symposium, Denver, CO.
- Ofen, N.**, Chai, X.J & Gabrieli, J.D.E. (2009). The development of brain systems for episodic memory retrieval. Cognitive Neuroscience Society Meeting, San Francisco, CA.
- Chai, X.J., **Ofen, N.** & Gabrieli, J.D.E. (2008) Developmental changes in the encoding of indoor versus outdoor scenes. Society for Neuroscience Meeting, Washington, DC.
- \*Yoo, J.J., **Ofen, N.**, Hinds, O., Gabrieli S. & Gabrieli, J.D.E. (2008). Predicting Successful Memory Formation using fMRI and Discriminant Analyses. OHBM Meeting, Australia.
- Hinds, O., **Ofen, N.**, Gabrieli, S., Triantafyllou, C., Yoo, J.J., Ghosh, S., Lala, N., Willingham, D. & Gabrieli J.D.E. (2008). Transitions of task-related brain activation during acquisition of a novel perceptual-motor mapping. OHBM Meeting, Australia.
- Ofen, N.**, Chai, X.J., Schuil, K.D.I., Hameed A. & Gabrieli, J.D.E. (2008). The development of brain systems for episodic memory retrieval, Cognitive Neuroscience Society Meeting, San Francisco, CA.
- \***Ofen, N.** & Gabrieli J.D.E. (2007). Development of memory systems in the brain. Israel Society for Neuroscience Meeting, Eilat, Israel.
- \***Ofen, N.**, Whitfield-Gabrieli, S. & Gabrieli J.D.E. (2007). Development of parietal contributions to successful memory encoding. Society for Neuroscience Meeting, San Diego, CA.
- Gaab, N., **Ofen, N.** & Gabrieli J.D.E. (2007). Resting with instructions: Actively ignoring or attending to scanner background noise. Cognitive Neuroscience Society Annual Meeting, NY, NY.
- \***Ofen, N.**, Kim, H., Kao, Y-C., Sokol-Hessner, P. & J.D.E. Gabrieli (2006). Maturation of brain structures supporting successful memory encoding. Society for Neuroscience Meeting, Atlanta, GA.
- Ofen, N.**, Kao, Y-C., Sokol-Hessner, P. & Gabrieli, J.D.E. (2006). Developmental relationship between memory systems underlying successful memory encoding, working memory, source memory and speed of processing. OHBM Meeting, Florence, Italy.
- \***Ofen, N.**, Kao, Y-C. Sokol-Hessner, P. Motsinger, J. & Gabrieli, J.D.E. (2005). Development of memory systems underlying successful memory encoding. ICON9 Meeting, Havana, Cuba.
- Ofen, N.**, Gray, M.E., Mazaika, P., Hutchinson, J.B., Whitfield-Gabrieli, S. & Gabrieli, J.E.D. (2005). Get ready to lie: Neural correlates of deception and its preparation as measured by fMRI. Society for Neuroscience Meeting, Washington, DC.
- \***Ofen, N.**, Dudai, Y. & Karni, A. (2004). Cognitive skill learning: repetition per-se does not determine specificity. Society for Neuroscience Meeting, San Diego, CA.
- Ofen, N.**, Moran, A. & Sagi, D. (2004). Within-session deterioration in texture discrimination. *J Cogn. Neurosci.*, D149, Suppl.

- Ofen-Noy, N.,** Dudai, Y. & Karni, A. (2003). Time in learning: spacing practice sessions across days improve acquisition and transfer performance. *J Cogn. Neurosci.*, B208, Suppl.
- \***Ofen-Noy, N.,** Dudai, Y. & Karni, A. (2002). Time and the learning of a cognitive skill: The spacing of practice sessions across days improves performance. *Neuronal Plasticity*, 9(2), 103.
- Ofen-Noy, N.,** Dudai, Y. & Karni, A. (2001). More practice makes less transfer but no difference to the time course of skill acquisition. *Soc. Neurosci. Abstr.*, 27, 76.8.

## Teaching

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- Wayne State University**, Psychology Department, Detroit, MI  
*Lecturer*, PSY-8050: Cognitive Neuroscience Fall 2012
- Wayne State University**, Translational Neuroscience Program Detroit, MI  
*Instructor*, PYC-7515: Advanced Topics – Imaging, Neurodevelopment and Psychiatric Disorders Winter 2012  
*Guest Instructor*, PYC-7140: Fundamentals of Neuroimaging Winter 2012
- Northeastern University**, Psychology Department, Boston, MA  
*Adjunct Professor, Lecturer*, PSYC-4366: Cognition Spring 2010
- Harvard University**, Faculty of Arts and Sciences, Cambridge, MA  
*Teaching Fellow*, with Prof. Steven Hyman, Neurobiology 130: Drugs and the Brain Fall 2008
- MIT**, Department of Brain and Cognitive Sciences, Cambridge, MA  
*Guest Lecturer*, 9.00: Introduction to Psychology Spring 2006
- Open University Israel**, Ascolot, Tel Aviv, Israel  
*Lecturer*, ‘Selected Topics in Brain Research’, ‘Advanced Brain Research’ Fall 1999 – 2002
- Weizmann Institute of Science**, Feinberg Graduate School Rehovot, Isreal  
*Guest Lecturer*, Neurobiology of Memory Spring 2002  
*Lab Instructor*, Neurophysiology: Intact animal electrophysiology 1998
- Weizmann Institute of Science**, Youth Science Section, Rehovot, Isreal  
*Lecturer*, ‘Brain Research’ 1999 – 2003
- University of Haifa**  
*Teaching Assistant*, Physiological Basis of Behavior, Philosophy of Science 1994, 1995

## Mentoring

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- Jonatha Nathan, Translational Neuroscience Program, Wayne State University Fall 2011 – present
- Elizabeth Gutierrez, MIT Summer Research Program, MIT Graduate Student Summer 2010 – 2011
- Rebecca Martin, Research Assistant, MIT 2009 – 2011
- Kristen Morin, Visiting Undergraduate Research Assistant, Northeastern University Summer 2010 – 2011
- Sunil Patel, Visiting Undergraduate Research Assistant, Northeastern University Summer 2010, 2011
- Kristina Chambers, Visiting Student, Dartmouth College, NH Fall 2009
- Christiane Mietzsch, Bachelor Thesis, Osnabrück, Germany 2009 – 2010  
 Thesis title: ‘Signal detection and dual process models of recognition memory’
- Elizabeth Counterman, MIT Summer Research Program, Psychology at Mt. Holyoke Summer 2009
- Sudhandra Sudandaram, Summer Research Assistant, Brown University Summer 2009
- Ayesha Hameed, Undergraduate Research Project, Lab Course, MIT 2008 – 2009
- Karen Schuil, Master Thesis, Leiden University, The Netherlands 2007 – 2008  
 Thesis title: ‘The effects of development on the shape of the hemodynamic response function’
- Xiaoqian Jenny Chai, Visiting Graduate Student, Berkeley 2006 – 2009

Tania Abedian, Visiting Undergraduate Student, RPI	Summer 2008
Boris Volfson, Visiting Undergraduate Student, McGill University, Canada	Summer 2007
Natalie Rubinstein, Undergraduate Summer Projects, Biology Lab Course, MIT	2006 – 2007
Undergraduate Research Opportunity Project (UROP), MIT (six students)	2005 – 2008
M.Sc. Students during Lab Rotation, Weizmann Institute of Science (seven students)	1999 – 2003

## Selected Invited Talks

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02/2013: **University of Michigan**, Ann Arbor, MI

05/2012: Max Plank Institute, **Berlin**, Germany

04/2012: Institute of Environmental Health Sciences Seminar, **Wayne State University**, Detroit, MI

03/2012: Grand Rounds Department of Pediatrics, **Wayne State University**, Detroit, MI

01/2012: The Center for Human Growth and Development Colloquium, **University of Michigan**, Ann Arbor, MI

01/2012: Psychology Department Colloquium, **Michigan State University**, East Lansing, MI

12/2011: Translational Neuroscience Program Seminar, **Wayne State University**, Detroit, MI

10/2011: Invite Speaker, **Baltes International Conference**, Detroit, MI

10/2011: Invited Symposia Speaker, **Cognitive Development Society's 7<sup>th</sup> Biennial Meeting**, Philadelphia, PA

10/2011: Psychology Department Colloquium, **Wayne State University**, Detroit, MI

05/2011: Greater Boston Cognitive Development Workshop, **Brandeis University**, Waltham, MA

08/2010: Language & Cognition Summer Series, Psychology Department, **Northeastern University**, Boston, MA

06/2010: Psychobiology & Neuropsychology Seminar, Psychology Department, **Haifa University**, Haifa, Israel

06/2010: The New School of Psychology, **Inter Disciplinary Center IDC**, Herzliya, Israel

05/2010: Cognitive Neuroscience Colloquium, **Albert Einstein School of Medicine**, NY

04/2010: Merrill Palmer Skillman Institute / Institute of Gerontology, **Wayne State University**, MI

03/2010: Golby Laboratory Seminar, Brigham and Women Hospital, **Harvard Medical School**, Boston, MA

12/2009: Brain and Cognitive Sciences Departmental Seminar (CogLunch), **MIT**, Cambridge, MA

07/2009: Conference on Neurocognitive Development, **UC Berkeley**, CA

06/2009: **Donders Institute**, Nijmegen, The Netherlands

04/2009: Psychology Department Colloquium, **Hebrew University of Jerusalem**, Jerusalem, Israel

03/2009: **Brandeis University**, Waltham, MA

01/2009: Vision Seminar, Psychology Department, **Stanford University**, Stanford, CA

12/2008: Cognitive & Affective Neuroscience Lab, **MIT**, Cambridge, MA

01/2008: Laboratories of Cognitive Neuroscience at **Children's Hospital**, Boston, MA

09/2007: Cognitive & Affective Neuroscience Lab, **MIT**, Cambridge, MA

05/2007: Cognitive & Affective Neuroscience Lab, **MIT**, Cambridge, MA

11/2006: Charles River Association for Memory Annual Meeting, **MIT**, Cambridge, MA

05/2006: Martinos SCAN Seminar, **MGH**, Charlestown, MA

02/2006: Brain and Cognitive Sciences Departmental Seminar (CogLunch), **MIT**, Cambridge, MA

01/2006: Cognitive Neuroscience Laboratories (Prof. Suzanne Corkin), **MIT**, Cambridge, MA

01/2006: Charles River Association for Memory (CRAM) Inaugural Meeting, **MIT**, Cambridge, MA

07/2005: Detecting Deception meeting held at **University of Wisconsin-Madison**, WI

05/2005: Stanford Psychology Department Cognitive Seminar (FriSem), **Stanford University**, Stanford, CA

02/2005: Laboratories for Cognitive Neuroscience, **Stanford University**, Stanford, CA

05/2004: Laboratories for Cognitive Neuroscience, **Stanford University**, Stanford, CA

