

Noa Ofen, Ph.D.

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Academic Appointments

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

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

Faculty Competition for Postdoctoral Award (2014-2016)

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

- Chai, X.J., **Ofen, N.**, Gabrieli, J.D.E., Whitfield-Gabrieli, S. Selective development of anticorrelated networks in the intrinsic functional organization of the human brain (*accepted*). *Journal of Cognitive Neuroscience*
- Chai, X.J., **Ofen, N.**, (*CXJ NO equal contribution*) Gabrieli, J.D.E., Whitfield-Gabrieli, S. Development of deactivation of the default-mode network during episodic memory formation. (*available online 21 September 2013*). *Neuroimage*
- Ofen, N.**, Shing, Y.L. From perception to memory: Changes in memory systems across the lifespan. (*available online 25 April 2013*). *Neuroscience and Biobehavioral Reviews*
- 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.**, (*CXJ NO equal contribution*) 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.
- 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 Research: Cognitive Brain Research* 17, 507-521.

Book Chapter

- Diwadkar, V.A., **Ofen, N.** (*in press*). Disordered brain network function in adolescence: Impact on thought, language and vulnerability for schizophrenia. *Brain evolution, language, and psychopathology in schizophrenia* (P. Brambilla, A. Marini, Eds.). Psychology Press, Taylor & Francis.

Manuscripts

- Ofen, N.**, Whitfield-Gabrieli S., Chai, X.J., Rebecca Schwarzlose, Gray, M.E., Hutchinson, J.B., Gabrieli, J.D.E. Lying about past events and personal beliefs. *in revision*
- Daugherty A.M., **Ofen, N.** The role of metamemory belief in memory development. *in prep*
- Ofen, N.**, Chai, X.J., Mietzsch, C., Gabrieli, J.D.E. Neural correlates of the development of recollection and its relation to strategy use. *in prep*
- Ofen, N.**, Chai, X.J., Gabrieli, J.D.E. Parietal contributions to memory encoding in young children. *in prep*

Conference presentations (*Oral)

- Ofen N.**, Daugherty, A.M. (2013). Hippocampal head and body volumes are related to hippocampal subfield volumes. Abstract submitted to SFN meeting, San Diego, CA.

- Daugherty, A.M., **Ofen N.** (2013). Developmental differences in hippocampal dentate gyrus account for improvement in associative memory. Abstract submitted to SFN meeting, San Diego, CA.
- Hardwick, A., Daugherty, A.M., Serota, R., **Ofen N.** (2013). Perception of effectiveness of mnemonic strategies influence the development of associative memory. SFN MI Chapter, Detroit, MI.
- [^]Marusak, H.A., Stoltman, J.K., Serota, R., Diwadkar, V.A., **Ofen, N.** (2013). Top-down control mediating the successful memory retrieval across development. OHBM meeting, Seattle, WA. ([^], *OHBM Travel Award*)
- ***Ofen, N.** (2013). Memory systems in development, risk and disease: A case-study for R-DoC applications in the schizophrenia diathesis. Symposium Chair and Presenter, Society of Biological Psychiatry Annual meeting, San Francisco, CA.
- ***Ofen, N.**, Chai, X.J., Gabrieli, J.D.E. (2013). Neural correlates of the development of recollection and its relation to strategy use. Paper Symposium, Biennial meeting of the Society for Research in Child Development, Seattle, WA.
- 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.
- *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.
- 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

- Wayne State University**, Psychology Department, Detroit, MI
Guest Lecturer, PSY-3050: Cognitive Psychology Fall 2013
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, 2013
Guest Instructor, PYC-7890: Research Seminar Winter, 2013
- 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**, Rehovot, Isreal

<i>Guest Lecturer, Neurobiology of Memory</i>	Spring 2002
<i>Lab Instructor, Neurophysiology: Intact animal electrophysiology</i>	1998
<i>Lecturer, Youth Science Section, Brain Research</i>	1999 – 2003

University of Haifa

<i>Teaching Assistant, Physiological Basis of Behavior, Philosophy of Science</i>	1994, 1995
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Mentoring

WSU – Postdoctoral:

Mayu Nishimura, PhD	Start: Spring 2013
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Rebecca Schawzelose, PhD	Start: Summer 2013
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WSU – Graduate level:

Qijing Yu, BCN area, Psychology Department, Wayne State University	Start: Fall 2013
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Lingfei Tang, CDS area, Psychology Department, Wayne State University	Start: Fall 2013
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Ana Daugherty, BCN area, Psychology Department, Wayne State University	Fall 2012 – Summer 2013
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Hilary Marusak, Translational Neuroscience Program, Wayne State University	Fall 2012
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Jonatha Nathan, Translational Neuroscience Program/BMS, Wayne State University	Fall 2011 – Summer 2013
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WSU – Undergraduate level:

Nikhil Adapa, Summer Undergraduate Research Experience (SURE)	Summer 2013
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Kirtan Desai, Summer Undergraduate Research Experience (SURE)	Summer 2013
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WSU – PhD Thesis committee:

Brianne Mohl, TNP, SOM

Andrew Bender, BCN, Psychology

Yiqin Yang, BCN, Psychology

Peng Yuan, BCN, Psychology

Karen Schuil, Master Thesis, Leiden University, The Netherlands	2007 – 2008
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Thesis title: ‘The effects of development on the shape of the hemodynamic response function’

Christiane Mietzsch, Bachelor Thesis, Osnabrück, Germany	2009 – 2010
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Thesis title: ‘Signal detection and dual process models of recognition memory’

Elizabeth Gutierrez, MIT Summer Research Program, MIT Graduate Student	Summer 2010 – 2011
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Rebecca Martin, Research Assistant, MIT	2009 – 2011
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Kristen Morin, Visiting Undergraduate Research Assistant, Northeastern University	Summer 2010 – 2011
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Sunil Patel, Visiting Undergraduate Research Assistant, Northeastern University	Summer 2010, 2011
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Kristina Chambers, Visiting Student, Dartmouth College, NH	Fall 2009
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Elizabeth Counterman, MIT Summer Research Program, Psychology at Mt. Holyoke	Summer 2009
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Ayesha Hameed, Undergraduate Research Project, Lab Course, MIT	2008 – 2009
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Tania Abedian, Visiting Undergraduate Student, RPI	Summer 2008
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Boris Volfson, Visiting Undergraduate Student, McGill University, Canada	Summer 2007
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Natalie Rubinstein, Undergraduate Summer Projects, Biology Lab Course, MIT	2006 – 2007
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Undergraduate Research Opportunity Project (UROP), MIT (six students)	2005 – 2008
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Invited Talks

Planned for 05/2014: BRAINS Seminar, Psychiatry, **Wayne State University**, Detroit, MI
Planned for 12/2013: Grand Rounds Department of Pediatrics, **Wayne State University**, Detroit, MI
Planned for 10/2013: Colloquium Speaker **Center for Vital Longevity at UT Dallas**, Dallas, TX
05/2013: NeuroLens Seminar, **University of California San Francisco**, San Francisco, CA
05/2013: **Society of Biological Psychiatry** (chair and speaker in accepted symposium)
04/2013: **Society for Research in Child Development** (chair, speaker and discussant two accepted symposia)
02/2013: fMRI special lecturer series, **University of Michigan**, Ann Arbor, MI
01/2013: Department of Engineering, **Wayne State University**, Detroit, MI
05/2012: Max Plank Institute for Human Development, **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 7th 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

Scientific Membership

Cognitive Development Society (CDS)	2011 – present
Society for Research in Child Development (SRCD)	2008 – present
Organization of Human Brain Mapping (OHBM)	2005 – present
Society for Neuroscience (SFN)	2004 – present
Cognitive Neuroscience Society (CNS)	2002 – present

Ad-Hoc Reviewer

Peer-Review Journals:

Behavioral Neuroscience, Cerebral Cortex, Developmental Cognitive Neuroscience, Developmental Psychology, Developmental Science, Human Brain Mapping, Journal of Cognitive Neuroscience, Journal of the International Neuropsychological Society, Journal of Neuroscience, NeuroImage, Neuron, Neuropsychologia, Neuroreport, Neuroscience and Biobehavioral Reviews, PLOS One, Psychology and Aging, Social Neuroscience, Visual Cognition.

Review Editor:

Frontiers in Cognitive Sciences

Ad-hoc Grant Reviewer:

National Science Foundation (NSF)
Netherlands Organisation for Scientific Research (NWO)
National Institute for Psychobiology in Israel

Abstract Reviewer:

Organization for Human Brain Mapping (OHBM) annual meeting (2008 – 2013)

Program Reviewer:

Soc. Res. Child Dev. (SRCD) Biannual Meeting (2010, 2012)

Research Support

R01 MH-080344-02 Gabrieli (PI) 07/01/08-06/30/13

Development of Declarative Memory in the Human Brain

The goals of this project are to discover the underpinnings of the normal development of declarative memory using cross-sectional and longitudinal studies of memory encoding and retrieval.

Total anticipated award \$1,865,250

Role: Co-Investigator

Additional Relevant Experience

Outreach Committee, MIT, Department of Brain and cognitive Sciences	2008 – 2011
Principal, “Chase Summer Camp for Science, Music and Art”, Weizmann Institute of Science	1998 – 2003
Lecturer, Brain Research, Youth Activity Section, Weizmann Institute of Science	1999 – 2003
Lecturer, “Bashaar”, Academic Community for the Israeli Society	2001 – 2003