

Name: Zohar Eviatar

Date: November 2014

CURRICULUM VITAE

1. Personal Details

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2. Higher Education

A. Undergraduate and Graduate Studies

| Period of Study | Name of Institution and Department | Degree | Year of Approval of Degree |
|------------------------|--|-------------------------|-----------------------------------|
| 1981-83 | Psychology, University of Minnesota. | BA (Summa Cum Laude) | 1983 |
| 1983-85 | Psychology, UCLA | MA | 1985 |
| 1985-1990 | Psychology, UCLA | PhD | 1990 |
| 2005-2009 | Social Work, University of Haifa | MSW | 2009 |

B. Post-Doctoral Studies

| Period of Study | Name of Institution, Department and Host | Degree | Year of Completion |
|------------------------|---|---------------|---------------------------|
| 1990-92 | USC, Psychology, Joseph Hellige | | 1992 |
| 1992-1994 | IIPDM, University of Haifa | | 1994 |

3. Academic Ranks and Tenure in Institutes of Higher Education

| Dates | Name of Institution and Department | Rank/Position |
|-------------------|--|----------------------------------|
| 1991-92 | Psychology Dept., UCLA | Extramural Lecturer |
| 1993-94 | Psychology Dept., University of Haifa | Extramural Lecturer |
| 1994-99 | Psychology Dept., University of Haifa | Lecturer |
| 2000-2008 | Psychology Dept., University of Haifa | Senior Lecturer |
| 2001-02 | Psychology Dept. Carnegie-Mellon University | Visiting Researcher (sabbatical) |
| 2009- | Psychology Dept., University of Haifa | Associate Professor |
| Jan –August, 2013 | Dept. of Language, Speech and Hearing, Graduate Center, CUNY | Visiting Researcher (sabbatical) |

4. Offices in University Academic Administration

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| 1994-2001 | Chair, departmental seminar committee, Psychology, University of Haifa. |
| 1997-2001 | Member of University Ethics Committee for Animal Experimentation |
| 2004- 2011 | Member of BA Committee, Psychology Dept. |
| 2004- 2012 | Head of Cognitive Teaching Lab, Psychology Dept. |
| 2005-2007 | Member of Laboratory Committee, Psychology Dept. |
| 2006-2008 | Member of University Ethics Committee for Animal Experimentation |
| 2006-2007 | Member of Psychology Dept. Ethics committee for human subjects |
| 2008-2011 | Chair, Psychology Dept. Ethics committee for human subjects |
| *2009- 2012 | Member, University Graduate Research Council |
| *2010-2013 | Member, PhD Committee, Psychology Dept. |
| *2011- | Head, Unit for the Study of Reading in Arabic, The Edmond J. Safra Brain Research Center for the Study of Learning Disabilities |
| *2011-2012 | Chair, BA Committee, Psychology Dept. |
| *2013- | Member, BA committee Psychology Dept. |

5. Scholarly Positions and Activities outside the University

Occasional reviewer for the journals *Neuropsychology*, *Neuropsychologia*, *Brain and Language*, *Brain and Cognition*, *Language Learning*, *Reading and Writing*, *Neurocase*, *Memory and Cognition*, *Human Brain Mapping*, *Psychonomic Bulletin and Review*, *Brain*, *Neuroscience & Behavioral Reviews*, *Perspectives on Psychological Science*, *PLOS-One*, *Reading Research Quarterly*, *Laterality*

Grant reviewer for The National Institute of Psychobiology; Israel Foundation Trustees, Israel Science Foundation, National Science Foundation

PhD Committee to evaluate the dissertation of Nicola Spotorno, Universite Lumiere Lyon-2. France, November 2012.

On the Editorial Board for the journal *Writing Systems Research* from Oxford University Press

On the Senior Academic Council for the Academic Institute of Nazareth.

Member : American Psychological Society; Israel Society for Biological Psychiatry, Psychonomic Society, Society for the Neurobiology of Language

6. Participation in Scholarly Conferences

a. Active Participation

International

| Date | Name of Conference | Place of Conference | Subject of Lecture/Discussion | Role |
|--------------|--|---------------------|--|--|
| Feb. 1990 | International Neuropsychological Society | Orlando FL. | The effects of word length on perceptual asymmetry in a lexical decision task | Paper (with Eran Zaidel) |
| June, 1992 | American Psychological Society | San Diego CA | Differences in hemispheric division of labor for left and right handers | Poster (with Joe Hellige & Eran Zaidel) |
| Jan. 5, 1995 | Language and the Brain: Focus on the Right Hemisphere | Bar Ilan, Israel | Orthographic effects on reading | Invited address |
| Feb. 1995 | International Neuropsychological Society | Seattle WA | A cross linguistic test of hemispheric differences in processing letter trigrams | Poster |
| Aug. 1996 | Theoretical and Experimental Neuropsychology (TENNET) | Montreal Canada | Orthography/phonology relations in hemispheric functioning | Poster |
| Feb. 1998 | International Neuropsychological Society | Honolulu Hawaii | 1. Cross language tests of hemispheric strategies in reading nonwords 2. Dot enumeration in dyscalculic children | 1. Poster 2. Poster (with A. Barnea & D. Segal) |
| Sept. 1999 | 11 th Conference of European Society for Cognitive Psychology | Ghent Belgium | Effects of diacritics on visual word recognition in Hebrew: Differential effects in the left and right cerebral hemispheres | Poster (presented by E. Smolka) |
| Feb 2000 | International Neuropsychological Society | Denver, CO. | 1. Performance asymmetries in a language and visuo-spatial task in women with and without eating disorders 2. Do the characteristics of Arabic letters impede their | Poster, (with P. Viksman & Y. Even-Chen) 2. Poster (with R. Ibrahim & |

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| | | | processing? 3. Short-term and long-term social skills of children with developmental linguistic and social-emotional pathologies | Y. Aharon-Perez) 3. Poster (with S. Perlman-Avni & B. Berger) |
| June 2002 | Theoretical and Experimental Neuropsychology (TENNET) | Montreal CA | Is lateral asymmetry apparent with error monitoring? | Poster (with E. Hochman) |
| June 2003 | Theoretical and Experimental Neuropsychology (TENNET) | Montreal CA | Does each hemisphere monitor activity in the other one? | Poster (with E. Hochman) |
| Nov. 2003 | 44 th Annual meeting of the Psychonomic Society | Vancouver, CA | 1. Speech perception in a second language by late bilinguals 2. The neural basis of metaphor interpretation | 1. Poster (with R. Ibrahim, M. Leikin, & S. Sapir) 2. Poster (with M. Just & R. Mason) |
| Feb. 2004 | International Neuropsychological Society | Baltimore, MD | Cortical connectivity in autism | Paper (with V. Cherkassky, T. Keller, P. Carpenter, N. Minshew M.A. Just) |
| June 2005 | Theoretical and Experimental Neuropsychology (TENNET) | Montreal CA | Frequency and hemispheric asymmetry in the disambiguation of homographs in Hebrew | Poster (with O. Peleg) |
| Nov. 2006 | 47 th Annual meeting of the Psychonomic Society | Houston TX | Phonological, lexical, and contextual effects in the disambiguation of Hebrew homographs in the cerebral hemispheres | Poster (presented by O. Peleg) |
| May 2007 | Cognitive Neuroscience Society | New York NY | 1. Hemispheric sensitivities to sentential information: Evidence from lexical ambiguity resolution 2. Using Neural Network Models to Model Cerebral Hemispheric Differences in Processing Ambiguous Words | 1. Poster (with O. Peleg) 2. Poster (with O. Peleg, H. Hazan, & L. Manevitch) |
| Oct. 2007 | Formal Approaches to Language Acquisition | Haifa Israel | Reading with two hemispheres: neuropsychological and computational models | Invited talk |
| Nov. 2007 | 48 th Annual meeting of the Psychonomic Society | Long Beach CA | Reading with two hemispheres | Paper (presented by O. Peleg) |
| Dec. 2007 | International Workshop on The Cognitive Basis of Nonlinguistic and Linguistic Skills: Regular and Impaired | University of Haifa | The interaction of language structure and hemispheric abilities in the functional architecture of reading | Invited talk |

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| | Processes, | | | |
| Oct. 2008 | 16 th International Conference on Eating Disorders | Alpbach, Austria | Sisters of women with eating disorders: Neurocognition and personality profiles | Paper (presented by M. Hason – Rozenstein with Y. Latzer) |
| Nov 2008 | 49 th Annual meeting of the Psychonomic Society | Chicago IL | Semantic asymmetries are modified by phonological ambiguity | Poster (with O. Peleg) |
| *Oct. 2009 | Neurobiology of Language | Chicago IL | Hemispheric asymmetry for meaning: Evidence from lexical ambiguity resolution in Hebrew | Poster (with O. Peleg) |
| *Aug. 2010 | 11th International Science of Aphasia Conference | Potsdam, Germany | Reading Asymmetries: Phonological, lexical, and contextual effects | Poster (presented by O. Peleg) |
| *Sept. 2011 | New Trends in Experimental Psycholinguistics | Madrid, Spain | Resolution of Semantic Ambiguity: The Role of Phonology | Paper |
| *Nov. 2011 | Neurobiology of Language | Annapolis, Maryland | The resolution of semantic ambiguity depends on phonological ambiguity | Poster (presented by Tali Bitan with Orna Peleg) |
| *Dec 2011 | Early Bilingualism: Language and Literacy | Haifa, Israel | The Effects of Diglossia and Arabic Script on Reading Acquisition | Paper |
| *April 2012 | Haifa Writing Systems Workshop | Haifa, Israel | What Scripts Demand and What the Brain can Give | Paper |
| *July 2012 | Cognitive Science Association for Interdisciplinary Learning | Mt. Hood, Oregon | Why is it hard to read Arabic? | Paper |
| *Oct. 2012 | Neurobiology of Language | San Sebastian Spain | Why is it hard to read Arabic? | poster |
| * Nov. 2013 | Neurobiology of Language | San Diego, California | 1. The relationship between orthographic, phonological and semantic representations in the two cerebral hemispheres 2. The dynamic relationship between orthography, phonology and meaning: Eye-tracking measures in reading homophones and heterophones in Hebrew 3. Cross Language Influences in Bilingual Speakers: The Effect of a Partial Shared Translation | Poster (with Orna Peleg) Poster (with Hamutal Kreiner) Poster (with Tamar Degani) |
| *Nov 2013 | Brain, Mind & Fluency Conference | Haifa, University of Haifa | 1. The effect of Arabic orthography on retrieval times and automatic reading in adult skilled readers 2. Language effects on processing verbal numbers in Arabic – Hebrew bilinguals: The case of inversion in the Arabic number system. | Poster (with Abeer Hellow and Raphiq Ibrahim) Poster (with Suha Musa and Raphiq Ibrahim) |
| *May 14- | Historical Linguistics | Hebrew | How readers of different | Invited Talk |

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| 15 2014 | meets Experimental Pragmatics | University, Jerusalem | languages use their brains. | |
| *July 21- 23 2014 | The Stuff Words are Made of: An International Conference on the Cross-linguistic Comparison of Indo-Germanic and Semitic Languages | University of Konstanz, Konstanz, Germany | Differential hemispheric involvement in reading in English, Hebrew, and Arabic | Invited Talk |

National

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|-----------------|--|--------------------------|--|---|
| Feb. 1993 | Israel Association for Cognitive Psychologists | Bar Ilan University | Physical and nominal same/different judgments on letter pairs | Paper |
| Dec. 1996 | Israel Society for Neuroscience | Eilat | Effects of language characteristics on hemispheric functioning during the reading of nonwords | Paper |
| Oct. 1997 | 24 th meeting of the Israel Association for Applied Linguistics | Tel Aviv | Organization of language abilities in the cerebral hemispheres | Invited Paper |
| April 26, 1999. | Annual Conference in memory of Professor Dina Feitelson | University of Haifa | Effects of Language Structure on Hemispheric Functioning in Reading | Keynote Address |
| March 29, 2001 | Language and the Brain | Gordon Teacher's College | Hemispheric Differences in Reading | Invited Address |
| Dec. 2002 | Israel Society for Neuroscience | Eilat | Brain correlates of discourse processing | Paper |
| Feb. 13, 2003 | Annual Meeting of the Israel Society for Neuropsychology | Tel Aviv | Cortical Connectivity in Autism | Invited Paper |
| May 15, 2005 | 2 nd Conference 'Contemporary Aspects in Assessment, Research, and Treatment of Children with Communication Disorders | Tel Aviv University | Cortical Connectivity in Autism | Invited address |
| July 2005 | 21 st Annual meeting of The Israeli Society for Computational Linguistics | Technion, Haifa | The disambiguation of heterophonic and homophonic homographs in Hebrew: a PDP account | Paper (presented by H.Hazan, with O.Peleg & L. Manevitch) |
| Aug. 2005 | 8 th Biannual Israeli Symposium on the Foundations of AI | University of Haifa | The disambiguation of heterophonic and homophonic homographs in Hebrew: a PDP account | Paper (presented by H.Hazan, with O.Peleg & L. Manevitch) |
| Feb., 2006 | Israel Society for Neuropsychology | Hebrew University | BMI and hemispheric functioning: Differential effect in women with eating disorder and their sisters | Poster (with M. Hason-Rozenstein, Y. Latzer, D. |

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| | | | | Stein, & E. Gur) |
| March 2006 | Annual Workshop on Brain & Language | Bar Ilan University | Two Hemispheres Two Networks: Access to the meaning of ambiguous words | Poster (with O. Peleg, H. Hazan, & L. Manevitch) |
| April 10, 2008. | Annual Conference in memory of Professor Dina Feitelson | University of Haifa | Hemispheric contribution to reading as a function of language structure | Invited talk |
| Sept. 2008 | 3 rd Conference to Promote Women's Health | Beer Sheva | Size evaluation in anorexia nervosa | Poster (with M. Hason-Rozenstein & Y. Latzer) |
| Sept.3-4, 2008. | Literacy and Language Conference | University of Haifa | The Effects of Language Structure and Hemispheric Abilities on Reading | Keynote Address |
| *December 29, 2009. | Annual Workshop for Developmental Psychology : Neurology and Development, 2009-2010, State of Israel Ministry of Health, Health Division | Tel Hashomer Medical Center, | Neuropsychology of Language The relationship between the brain, language, and emotions | Invited talk |
| *May 5, 2009 | Annual Conference of the Graduate Program in Language Studies | Oranim | Diglossia: One language or two | Invited talk |
| *March 25, 2010. | Israel Association for Literacy and Language | Beyt Berl | Why is it hard to read Arabic? | Invited talk |
| * May 2, 2010 | Annual Conference in memory of Professor Dina Feitelson | University of Haifa | Why is it hard to read Arabic? | Invited talk |
| *May 7, 2010 | Israel Association for Psychoanalytic Psychotherapy | Tel Aviv | 'The relevance of the brain to psychoanalysis' | Invited Workshop |
| *June 1, 2010. | Israel Psychological Association- Developmental Section Summer Conference | Neve Ilan | Development of the narrative Self | Invited talk |
| *July 2013 | Israel Association for Literacy and Language | Beyt Berl | Cross-Language effects in bilinguals: Effects of the phonological status of translational equivalents | Talk (given by Tamar Degani) |
| * Jan.9, 2014 | 4 th Conference on Communication Disorders in Multilingual and Multicultural Populations | Hadassa Academic College, Jerusalem | Bilingualism or Diglossia? The situation of Arabic | Invited talk |

b. Organization of Conferences or Sessions

* Writing Systems Workshop, Haifa University, April 16-18, 2012.

* Mini-conference at the Institute for Information Processing and Decision Making (IIPDM), University of Haifa: Reading in Deaf and Hearing Multilinguals, April 9, 2014

7. Invited Lectures

| Date | Place of Lecture | Name of Forum | Presentation/Comments |
|---------------------|--|---|--|
| 2004 | Tel Aviv University | Adams Super Center for Brain Studies | Panel on 'Literal and Nonliteral Language' |
| April, 2005. | Sheba Medical Center | Mental Health Section, Edmond and Lilly Safra Children's Hospital | Cortical connectivity in autism |
| Oct.7, 2007 | University of Haifa | Haifa Workshop on Formal Approaches to Language Acquisition | Reading with two hemispheres: neuropsychological and computational models |
| Jan.23, 2008. | Gonda Center for Brain Research, Bar Ilan University | Workshop for Brain, Metaphors, and Consciousness | Understanding language requires both hemispheres |
| *March 25, 2009 | University of Haifa | Ethics and Research | Panel participant |
| *April 2, 2009 | University of Haifa | Haifa Language Forum | Cross language and within language tests of sensitivity to morphological structure in the cerebral hemispheres |
| *July 7, 2011 | Ma'ale Hachamisha | Israel Academy of Science Workshop on Language and Literacy | Why is it hard to read Arabic: Evidence from Neurocognitive Research. |
| *June 27, 2013 | Yale University | Haskins Lab | Dynamics of Brain Functions and Reading in Different Languages: The Case of Arabic |
| *September 26, 2013 | UCLA | Brain Mapping Center | Resolution of Ambiguity: Clues to the mechanisms of Reading |
| * Nov. 30, 2013 | Georg-August-Universität Göttingen | Bilateral Cooperation Workshop | Getting from Print to Meaning |
| * March 13, 2014 | Tel Aviv University | The Language Education | Dynamics of Brain Functions and Reading in |

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| | | Research Seminar | Different Languages |
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8. Colloquium Talks

| Date | Place of Lecture | Name of Forum | Presentation/Comments |
|------------------|------------------------|---|---|
| Feb. 6, 1995. | University of Winnipeg | Psychology Dept. | Language Experience and Hemispheric Function |
| Feb. 16, 1995 | Cornell University | Developmental group in the Psychology Dept | Language Experience and Hemispheric Function |
| January 17, 2001 | Ben Gurion University | Cognitive Neuroscience group in the Dept. of Human Behavior | Language and the Hemispheres: Universal and Specific Design Characteristics |
| March 14, 2001 | Bar Ilan University | Linguistics and English Department | Language and the Hemispheres: Universal and Specific Design Characteristics |
| *June 22, 2010 | Bar Ilan University | Linguistics and English Department | Language Structure and Hemispheric Involvement in Reading |
| *April 24, 2013 | Graduate Center, CUNY | Dept. of Language, Speech, and Hearing | What scripts demand and what the brain can give |
| * Feb 4, 2014 | Weitzman Institute | Department of Neurobiology | Resolution of Ambiguity: Clues to the mechanisms of Reading |

9. Research Grants

a. Grants Awarded

| Role in Research | Co-Researchers | Topic | Funded by | Year |
|------------------|----------------|---|---|--------|
| PI | | The effects of multilingualism on the organization of cognitive abilities in the cerebral hemispheres | National Institute for Psychobiology in Israel (\$20,000) | 1993-5 |
| PI | | Reading direction and attention: Effects on performance | Research Authority, University of Haifa | 1996-7 |

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| | | asymmetries and hemispheric function | (15,000NIS) | |
| PI | Koriat, Navon, Norman, Kimchi, & Goldsmith | Unconscious Processes in Cognition | Zeit -Stiftung Ebelin Und Gerd Baucerius Foundation. (440,000 DM) | 1998-2000 |
| PI | | Research Award for Young Scientists | Research Authority, University of Haifa. (\$6,000) | 1998-1999 |
| PI | | Temporal processing in dyslexia and its influence on root extraction in Hebrew | Research Authority, University of Haifa. (7,000 NIS) | 1999-2000 |
| PI | Hillel Pratt (Technion) & Shimon Sapir (IIPDM) | Developmental Dyslexia: Deficits in Auditory Processing or Phonologic Coding? | Fund for Cooperative Research between the Technion and the University of Haifa (\$5,000) | 1999-2000 |
| PI | Ruth Kimchi | Perceptual individuation and grouping processes in enumeration: Investigation from cognitive and neuropsychological perspectives | Israel Academy of Science (\$70,821) | 1999-2002 |
| PI | Shiri Perlman-Avni | Social cognition and the use of language in developmental social pathologies. | National Institute for Psychobiology in Israel. (\$30,000) | 1999-2001 |
| PI | Ibrahim, Mark Leikin, and Shimon Sapir | Speech perception in a second language by late bilinguals: Evidence from healthy and brain | Language Learning (\$10,000) | 2000-2001 |

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| | | damaged individuals | | |
| PI | Raphiq Ibrahim | Language structure and hemispheric function: The contribution of the right hemisphere to reading | Israel Foundation Trustees. (\$24,000). | 2000-2002 |
| PI | Orna Peleg and Larry Manevitch | The role of phonology in silent reading: Converging evidence from computational modeling and empirical findings | Cesaeria-Rothchild Research Institute. (\$31,600) | 2004-2006 |
| PI | Orna Peleg | Hemispheric involvement in the disambiguation of homophonic and heterophonic homographs in Hebrew | Research Authority of University of Haifa (9,000 NIS) | 2005-2006 |
| PI | Orna Peleg and Larry Manevitch | The role of phonology in silent reading: Converging evidence from computational modeling and empirical findings | Israel Academy of Science (270,000 NIS). | 2006-2008 |
| PI | Orna Peleg, Consulting Investigators: Larry Manevitch and Tali Bitan | Interhemispheric integration during reading comprehension: An experimental, computational and imaging study | Israel Academy of Science (480,000 NIS). | 2008-2010 |
| * PI | Raphiq Ibrahim, Zur Karelitz, Ruth Fortis, & Anat Ben Simon | Differences in reading rate of Hebrew and Arabic texts used in the Psychometric Entrance Exam | National Institute for Testing and Evaluation (35,000 NIS) | 2011-2012 |
| * PI | Orna Peleg Consulting Investigator: Asaid Khateb | Linguistic factors in conceptual processing: A hemispheric perspective | Israel Academy of Science (510,000 NIS) | 2012-2015 |

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| * PI | Markus Steinbach Nivedita Mani Paul Miller | Priming across Modalities: The Influence of Orthography on Sign and Spoken Language Processing | German Academy of Science: Grant to Support the Initiation of International Collaboration | 2013-2014 |
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b. Submission of Research Proposals – Pending

| Role in Research | Co-Researchers | Topic | Funded by | Year |
|------------------|------------------------------|---------------------------|-----------------------|-----------|
| *PI | Mila Schwartz & Haitham Taha | Bilingual Early Education | Spencer Foundation | 2013-2015 |
| *PI | Mila Schwartz & Haitham Taha | Bilingual Early Education | Ministry of Education | 2013-2015 |

c. Submission of Research Proposals – Denied

| Role in Research | Co-Researchers | Topic | Funded by | Year | Score |
|------------------|--|--|--|------|-----------|
| * PI | Yael Latzer | Brain Connectivity in Eating Disorders: Converging Evidence for a Specific Deficit | Klarman Family Foundation | 2010 | |
| * PI | Yael Latzer, Daniel Stein, Steve Christman | Brain Connectivity in Eating Disorders: Converging Evidence for a Specific Deficit | BSF | 2010 | |
| * PI | Orna Peleg | Linguistic factors in conceptual processes: A hemispheric perspective | Israel Academy of Science | 2011 | Very Good |
| * PI | Hamutal Kreiner, Orna Peleg, & Manon Jones | From print to meaning: Biological and cultural contributions | The British Academy International Partnerships | 2011 | |

10.Scholarships, Awards and Prizes

- 1989 John D. Fells and Sherri Abend-Fells Fellowship
 1989 UCLA Graduate Division Dissertation Research Award
 1989 APA Dissertation Research Award
 1990 Individual National Research Service Award. Department of Health and Human Services, NIH.
 1992 Wolf Foundation Post-Doctoral Award, Israel.
 2005 Excellence in Teaching Award, Psychology, University of Haifa
 2006 Excellence in Teaching Award, Psychology, University of Haifa
 *2012 Fellow, American Psychological Society

11. Teaching

a. Courses Taught in Recent Years

| Year | Name of Course | Type of Course Lecture/Seminar/ Workshop/High Learn Course/ Introduction Course (Mandatory) | Degree | Numbers of Students |
|-----------------|--|--|---------------|--------------------------------|
| 1991,1 992 | Introduction to Psychology | Lecture | BA | 300 |
| 1991,1 992 | Human Information Processing | lab | BA | 20 |
| 1992, 1994-9 | Statistics | Lecture Mandatory | BA | 200 |
| 1994-5 | Language and the Brain | Lecture | BA | 50 |
| 1993,1 994-5 | Cerebral Hemispheres | seminar | MA | 15 |
| 1996- | Cerebral Hemispheres | Research seminar | BA | 10-14 |
| 1994- | Psycholinguistics | seminar | MA | 5-12 |
| 1995- 2007 | Introduction to Neuropsychology | seminar | MA | 8-15 |
| 2002- 2012 | Introduction to Neuropsychology | From 2010 - Mandatory | BA | 150-200 |
| 2006- 2014 | Psychology of Language | lecture | BA | 100 |
| 2007- | Neuropsychology of Language | lecture | MA | 10-25 |
| 2014 | Bilingualism and Second Language Acquisition | lecture | BA | 80 |

b. Supervision of Graduate Students

Post-docs

| Name | Topic | years | Achievements/Publication |
|------|-------|-------|--------------------------|
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| Dr. Raphiq Ibrahim | Reading in Arabic | 1999-2002 | Associate Professor in the Dept. of Learning Disabilities. We continue to write grants and publish together Papers #19, 20, 22, 26, 27, 30, 31,32,44,46 Chapters:#6,8 |
| Dr. Oma Peleg | Ambiguity resolution in the hemispheres during reading | 2004-2008 | Senior Lecturer (tenure track) at Tel Aviv University. We continue to write grants and publish together Papers:#28, 34, 39, 48 Chapters:#3,7 |
| Dr. Tamar Degani | Bilingualism | 2011 - | In progress – Recipient of Marie Curie reintegration grant, Ministry of Absorption Grant, and President's Fellowship |

Ph.D. Students:

| Name | Topic | Date Approved | Achievements/Publication |
|--|---|------------------------------|--|
| Shiri Perlman-Avni (joint supervision with Prof. Barry Berger) | Social interaction and language use in developmental disorders with social pathology | September 2002. | paper #17; chapter #2 post-doc with Helen Tager-Flusberg. Now faculty at Tel Hai College |
| Mati Kaminsky (joint supervision with Dr. Joel Norman) | A deficit in temporal processing in dyslexia and its influence on root extraction in Hebrew | November 2003. | #16 Clinical Neuropsychologist |
| Eldad Hochman | Performance monitoring in the cerebral hemispheres: Laterality patterns in error detection and correction | April 2007, summa cum laude. | #21, 25, 34, 35 Rothschild Post-doc Fellowship |
| Hadar Netz (joint supervision with Prof. Ron Kuzar) | Perception of marked theme constructions in spoken discourse | January 2008 | #40, 47 Fullbright Fellow at Univ. of Virginia |
| Hanan Asaad | Effects of the visual | December, 2010 | #49, 50 |

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| | characteristics of Arabic letters on reading acquisition | | |
| Libby Davidson (joint supervision with Prof. Shimon Sapir) | Cognitive fatigue and attention deficits in adult developmental dyslexics. | January 2014 | In prep |
| Osnat Canaan | Disambiguation of homographs in Hebrew by compensated developmental dyslexics | January 2012 | In prep |
| Michael Nevat (joint supervision with Dr. Tali Bitan) | The role of procedural and declarative systems in learning morphological inflections | November 2013 | Research Fellow, Safra Center for Brain Research, University of Haifa. #57. |
| Shamai Carcom (joint supervision with Dr. Lilly Rothchild) | 'Effects of developmental neuropsychological deficits in social cognition on the comprehension of ambiguous words and object relations as reflected by the Rorschach | November 2013 | Clinician, #58 |
| Michal Hason-Rozenstein (joint supervision with Dr. Lilly Rothchild) | Emotion Recognition in Social Context among Women with Bulimia Nervosa and Their Mothers: Neuropsychology Point of View | March 2012 | Clinical Neuropsychologist |
| Benny Nadler (joint supervision with Dr. Ora Aviezer) | Linguistic and Cognitive Components in the Development of Self-Reflective Consciousness | Gathering data | Clinical Neuropsychologist |
| Andrey Markus | Hemispheric Interaction in the Inhibitory Component of the Supervisory System | Proposal Approved | |
| Lilly Crinitz | Hemispheric | Writing proposal | |

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| | Balance and Individual Differences in Cognitive Abilities | | |
| Aula Khatteb Abu-Leil (joint supervision with Raphiq Ibrahim) | Literacy in multiple Arabics: Effects of diglossia and orthography | Proposal submitted | |
| Latife Maroun (joint supervision with Raphiq Ibrahim) | Dyslexia in the Arabic Orthography | Proposal submitted | |
| Daphna Shahar Yames (joint supervision with Anat Prior) | Academic, Linguistic and Cognitive Aspects of 5 Th Grade Bi-Lingual Students; Russian and Hebrew Speakers with and without Reading Comprehension Difficulties. | Proposal submitted | |
| Naomi Shapira Havron (joint supervision with Inbal Arnon) | The difference between child and adult language learning: the effect of age and literacy on learning a second language | Writing proposal | |

MA Students

| Name | Topic | Date Approved | Achievements/Publication |
|------------------------|--|-----------------|--|
| Eva Smolka | The effects of pointing on visual word recognition in Hebrew: Differential processes in the left and right hemispheres | September, 1999 | # 23. PhD studies in Germany, is now Post-doctoral research fellow at the Linguistics Dept. Universität Konstanz |
| Anat Shapira-Smilovitz | Development of morphological analysis of Hebrew words with meaningful suffixes | January, 2000 | School Psychologist, PhD student with Ainat Painsky, IIPDM |
| Smadar Hart | Phonological perception of a late- | November, 2000. | Clinician |

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| | learned second language by bilingual aphasics | | |
| Tali Maimon | Speech perception in dyslexic and normal readers | September, 2001. | # 18 Clinician |
| Dalia Yechezkel | Hemispheric differences in same/different judgments | January, 2002. | School Psychologist |
| Benny Sand | The effects of reading scanning habits on the Flankers Effect | December, 2002. | |
| Ron Perlman (joint supervision with Prof. Zvia Breznitz) | Distribution of EEG components in dyslexic and normal readers | June 2003. | Clinician |
| Paulina Viksman (joint supervision with Dr. Yael Latzer) | Hemispheric asymmetry in women with and without eating disorders | December 2003. | # 29, PhD completed with Danny Koren, Clinician |
| Shamai Carcom (joint supervision with Dr. Lilly Rothchild) | Hemispheric asymmetry in adolescents diagnosed with non-verbal learning disabilities | March 2005. | PhD completed (with me), Clinician |
| Marina Rogachov | Use of determiners in discourse processes in Russian-Hebrew and Arabic-Hebrew bilingual university students | March 2005. | Ergonomist |
| Olga Plotkin (joint supervision with Dr. Mark Leikin) | Interlanguage as a full language system in comparison to Russian and Hebrew bilingual systems | July 2006 | Speech and Language Clinician |
| Michal Hason-Rozenstein (joint supervision with Dr. Yael Latzer) | Hemispheric lateralization in eating disorder patients and their sisters | June 2007. | #42, #45, Chapters #3 Clinician |
| Benny Nadler | Theory of mind and | July 2007. | #36. |

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| (joint supervision with Dr. Simone Shamai-Tsoory) | autobiographical memory in Asperger Syndrome | | PhD student (with me), Clinician |
| Naftali Israeli | Morphological structure and hemispheric functioning: The contribution of the right hemisphere to reading in English, Hebrew and Arabic | Feb. 2008 | # 37. Clinician |
| Adi Shamai (joint supervision with Dr. Lilly Rothchild) | Social cognition in Anorexia and Bulimia Nervosa (purging type) | Feb. 2009. | #38. Clinician |
| Rachel Tibi (joint supervision with Prof. Avi Karni) | The relationship between finger gnosis and mathematical processing: Does numerical processing interfere with the consolidation of a finger movements sequence skill? | Feb. 2009. | #51 |
| Souad Abdelhadi (joint supervision with Dr. Raphiq Ibrahim) | What affects vowel perception among skilled native Arabic readers | March 2009. | #44 PhD student at Simon Fraser University, Canada |
| Neomi Admon (joint supervision with Dr. Simone Shamai-Tzuri) | The McGurk effect and the mirror neuron system in humans: A TMS study | July 2009 | |
| Judy Segalowicz-Givon (joint supervision with Dr. Assaf Gilboa) | 'Recognition memory for semantic information requires recollection: Evidence from Process Dissociation Procedures and ROC curves' | Jan. 2010 | |
| Amany Saadya | Structural and | March 2010. | submitted |

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| (joint supervision with Dr. Raphiq Ibrahim) | Phonological Factors in Silent Reading: Evidence from the Missing Letter Effect in Arabic | | Clinician |
| Daffy Konis | Effects of information meaningfulness on inter-hemispheric transfer rate | August 2010 | In preparation – running another experiment to strengthen the results |
| Andrey Markus | 'A Common Inhibition Process: A Behavioral Hemispheric Approach' | January 2011 With excellence | #48, In preparation - running another experiment to strengthen the results PhD student with me |
| Rasha Mousa-Kawar | Number representation and the SNARC effect: The case of Arabs in Israel | July 2014 | Clinician |
| Mustafa Asali | 'Ambiguity resolution in Arabic in the two Cerebral Hemispheres' | May 2012 | Clinician |
| Inbal Lavon (joint supervision with Prof. Yossi Atias) | Mental Strain & fatigue during auditory task in Developmental Dyslexics: Behavioral and electrophysiological (ERPs) measures. | Gathering data | |
| Tehila Guigui (joint supervision with Dr. Assaf Gilboa) | Autobiographical Memory and Executive Functions | Feb. 2012 | |
| Meital Beznos | 'Gender differences and Hemispheric Asymmetry in Body Image' | February 2012 | |
| Assaf Kaftory (joint supervision with Dr. Tali Bitan) | Exploring two accounts of hemispheric asymmetries in word processing | February 2012 | |

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| | through semantic and phonologic ambiguity' | | |
| Alona Shulimenko | Inter-hemispheric integration of emotional stimuli in Anorexia Nervosa | submitted | |
| Nitzan Talmi (joint supervision with Dr. Jenny Korman) | Language and Self complexity amongst Monolinguals & Bilinguals | Gathering data | |
| Galit Ben Shimol | Re-examination of the "Lateralized Whorf" effect hypothesis – Hemisphere asymmetry in categorical perception of colors | November 2012 With excellence | submitted |
| Yael Bashari (joint supervision with Dr. David Manor) | Effects of timing and order of stimulus appearance on redundancy gain in lateralized paradigms | January 2013 | In prep |
| Manar Hayadre (joint supervision with Dr. Dennis Kurzon) | Phonological effects on ambiguity resolution in Arabic in the cerebral hemispheres | January 2013 | submitted |
| Noa Zarzif (joint Supervision with Dr. Tirtza Joels) | Attachment style and alexithymia among women with bulimia nervosa and their mothers | January 2013 | In Prep |
| Ruth Senesh (joint supervision with Dr. Lilly Rothchild) | Deficits in Emotion recognition in social contexts in women with bulimia nervosa and their mothers | February, 2013 | In Prep |

12. Miscellaneous

Media

Jerusalem Post: 09/01/2010 :Arab children find Hebrew, English easiest to read

BBC News 10 September 2010: Reading Arabic 'hard for brain'

The Washington Post: May 10, 2010 The Answer Sheet
VALERIE STRAUSS

ScienceDaily (*Feb. 17, 2010*) Teaching a Foreign Language? Best Teach in the Accent of the Listener

PUBLICATIONS

Note: For joint publications, the order of the listed authors appears according to their relative contribution except the *last place*, which is often for the senior author.

A. Ph.D. Dissertation

Speed-Accuracy and Speed-Bias Functions in the Two Cerebral Hemispheres. English. 153 pages. June 1990. Supervised by Eran Zaidel at UCLA. Publications from the dissertation: #3, #4, #5, #6

B. Scientific Books (Refereed) NA

Authored Books – Published NA

Authored Books - Accepted for Publication NA

Edited Books and Special Journal Issues – Published

*Special Issue on Semitic writing systems, co-editor with David Share, *Writing Systems Research*, 5 (2), 2013.

C. Monographs

Published NA

Accepted for Publication NA

D. Articles in Refereed Journals

Published

1. **Eviatar, Z., Menn, L., & Zaidel, E.** (1990) Concreteness: Nouns, verbs, and hemispheres. *Cortex* 26, 611-624. IF 6.1, rank 4/49 Behavioral Neuroscience, Szold-yes
2. **Eviatar, Z. & Zaidel, E.** (1991) The effects of word length and emotionality on right hemisphere contribution to lexical decision. *Neuropsychologia* 29, 415-428. IF 3.5, rank 11/49 Behavioral Neuroscience, Szold-yes
3. **Eviatar, Z. & Zaidel, E.** (1992) Letter matching in the hemispheres: Speed-accuracy tradeoffs. *Neuropsychologia* 30, 699-710. IF 3.5, rank 11/49 Behavioral Neuroscience, Szold-yes
4. **Eviatar, Z.** (1993) Same and different: How can we tell them apart? *Psychology*, 3. 118-125. (Hebrew)

5. **Eviatar**, Z. & Zaidel, E. (1994) Letter matching in the disconnected hemispheres. *Brain and Cognition* 25, 128-137. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
6. **Eviatar**, Z., Zaidel, E., & Wickens, T. (1994) Nominal and physical decision criteria in same/different judgments. *Perception & Psychophysics*, 56., 62- 72. IF 1.97 38/71 Psychology, Szold-yes
7. Hellige, J.B., Bloch, M.I., Cowin, E.L., Eng, T.L., **Eviatar**, Z., & Sergent, V. (1994) Individual variation in hemispheric asymmetry: Multitask study of effects related to handedness and sex. *Journal of Experimental Psychology: General*, 123, 235-256. IF 4.76 rank 4/83 Psychology, Szold-yes
8. **Eviatar**, Z. (1995). Reading direction and attention: Effects on lateralized ignoring. *Brain and Cognition*, 29, 137-150. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
9. **Eviatar**, Z. (1996) Orthography/phonology relations and hemispheric functioning. *Brain and Cognition*, 32 (2), 151-155. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
10. **Eviatar**, Z. (1997) Language experience and right hemisphere tasks: The effects of scanning habits and multilingualism. *Brain and Language*, 58, 157-173. IF 3.39 rank 1/22 Audiology and Speech Pathology, Szold-yes
11. **Eviatar**, Z., Hellige, J.B., & Zaidel, E. (1997). Individual differences in hemispheric specialization: Effects of gender and handedness. *Neuropsychology*, 11, 562-576. IF 3.58 rank 13/75 Psychology, Szold-yes
12. **Eviatar**, Z, Leikin, M, & Ibrahim, R. (1999). Phonological processing of second language phonemes: A selective deficit in a bilingual aphasic. *Language Learning*, 49, 121-141. IF 1.38 rank 36/219 Education Science, Szold-yes
13. **Eviatar**, Z. (1999). Cross-language tests of hemispheric strategies in reading nonwords. *Neuropsychology*, 13 (4), 498-515. IF 3.58 rank 13/75 Psychology, Szold-yes
14. **Eviatar**, Z. (2000). Culture and brain organization. *Brain and Cognition*, 42, 50-52. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
15. **Eviatar**, Z. & Ibrahim, R. (2000). Bilingual is as bilingual does: Metalinguistic abilities of Arabic-speaking children. *Applied Psycholinguistics*. 21(4), 451-471. IF 1.39 rank 21/160 Linguistics, Szold-yes
16. Kaminsky, M., **Eviatar** Z., and Norman J. (2002). The timing deficit hypothesis of dyslexia and its implications for Hebrew reading. *Brain and Cognition*, 48(2/3), 394-398. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
17. Pearlman-Avni, S., & **Eviatar** Z. (2002) Narrative analysis in developmental social and linguistic pathologies: Dissociation between emotional and informational

- language use. *Brain and Cognition*, 48(2/3), 494-499. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
18. Sapir, S., Maimon, T., & **Eviatar**, Z. (2002) Linguistic and nonlinguistic auditory processing of rapid vowel formant (F2) modulations in university students with and without developmental dyslexia. *Brain and Cognition*, 48(2/3), 520-526. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
 19. Ibrahim, R., **Eviatar**, Z., & Aharon-Peretz, J. (2002) The characteristics of Arabic orthography slow its processing. *Neuropsychology* 16 (3) 322-326. IF 3.58 rank 13/75 Psychology, Szold-yes
 20. **Eviatar**, Z., Ibrahim, R. , & Ganayim, D. (2004). Orthography and the hemispheres: Visual and linguistic aspects of letter processing, *Neuropsychology* 18(1), 174–184. IF 3.58 rank 13/75 Psychology, Szold-yes
 21. Hochman, E. Y. & **Eviatar**, Z. (2004). Does each hemisphere monitor the ongoing process in the contralateral one? *Brain and Cognition*, 55 (2): 314-321. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
 22. **Eviatar**, Z., & Ibrahim, R. (2004). Morphological and orthographic effects on hemispheric processing of nonwords: A cross-linguistic comparison. *Reading and Writing*, 17, 691-705. IF 1.163, Szold-yes
 23. Smolka, E. & **Eviatar**, Z. (2006). Phonological and orthographic visual word recognition in the two cerebral hemispheres: Evidence from Hebrew. *Cognitive Neuropsychology*, 23(6), 972-989. IF 1.5, rank 48/75 Psychology, Szold-yes
 24. **Eviatar**, Z., & Just M. (2006). Brain correlates of discourse processing: An fMRI investigation of irony and metaphor processing. *Neuropsychologia*, 44, 2348-2359. IF 3.5, rank 11/49 Behavioral Neuroscience, Szold-yes
 25. Hochman, E. Y., & **Eviatar**, Z. (2006). Do the hemispheres watch each other? Evidence for a between hemisphere performance monitoring. *Neuropsychology*. 20(6), 666-674. IF 3.58 rank 13/75 Psychology, Szold-yes
 26. Ibrahim, R., **Eviatar**, Z., & Aharon-Peretz, J. (2007). Metalinguistic awareness and reading performance: A cross-language comparison. *Journal of Psycholinguistic Research*, 36(4), 297-317. IF 0.875, Szold-yes
 27. **Eviatar**, Z. & Ibrahim R. (2007). Morphological structure and hemispheric functioning: The contribution of the right hemisphere to reading in different languages. *Neuropsychology*. 21(4), 470-484. IF 3.58 rank 13/75 Psychology, Szold-yes
 28. Peleg, O. & **Eviatar** Z. (2008). Hemispheric sensitivities to lexical and contextual information: Evidence from lexical ambiguity resolution. *Brain and Language*, 105(2):71-82. IF 3.39 rank 1/22 Audiology and Speech Pathology, Szold-yes
 29. **Eviatar**, Z., Latzer, Y., & Vicksman, P. (2008). Anomalous lateral dominance patterns in women with eating disorders: Clues to neurobiological bases. *International*

Journal of Neuroscience, 118 (10), 1425-1442. IF 1.2 rank 210/252 Neuroscience, Szold-yes

30. Ibrahim, R., **Eviatar**, Z., & Leikin, M. (2008). Speaking Hebrew with an accent: Emphatic capacity or other non-personal factors. *International Journal of Bilingualism*, 12(3), 195-207. IF 0.880 rank 48/160 Linguistics, Szold-yes
31. Ibrahim, R. & **Eviatar**, Z. (2009). Language status and hemispheric involvement in reading: Evidence from trilingual Arabic speakers tested in Arabic, Hebrew and English. *Neuropsychology*. 23(2), 240-254. IF 3.58 rank 13/75 Psychology, Szold-yes
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33. Hochman , Y., **Eviatar**, Z. ,Breznitz, Z. , Nevat, M. ,& Shaul. S.(2009). Source localization of error negativity: Additional source for corrected errors. *Neuroreport*, 20 (13), 1144-1148. IF 1.4 rank 204/252 Neuroscience, Szold-yes
34. Peleg, O., & **Eviatar**, Z. (2009). Semantic asymmetries are modulated by phonological asymmetries: Evidence from the disambiguation of homophonic versus heterophonic homographs. *Brain and Cognition*, 70(1), 154-162. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
35. Hochman, E., Y., **Eviatar**,Z., Breznitz, Z., Shaul, S., & Nevat, M. (2009). Different laterality patterns of the error-related negativity in corrected and uncorrected errors. *Laterality*, 14(6), 618-634. IF 1.514, Szold-yes
- *36. Adler, N., Nadler, B., **Eviatar**, Z., & Shamay-Tsoory , S.G.(2010). The relationship between theory of mind and autobiographical memory in high functioning autism and Asperger syndrome. *Psychiatry Research*, 178, (1), 214-216. IF 2.5 rank 59/135 Psychiatry, Szold-yes
- *37. Ibrahim, R., **Eviatar**, Z., & Israeli N. (2010). Hemispheric involvement in reading: The effects of language experience. *Journal of Neurolinguistics*, 23(4), 427-442. IF 1.12 rank 215/252 Neuroscience, Szold-yes
- *38. Netz, H., Kuzar, R., & **Eviatar**, Z. (2010) A recipient-based study of the discourse functions of marked topic constructions. *Language Sciences*, 33, 154-166. IF 0.667, Szold-yes
- *39. Peleg, O. , Manevitz, L., Hazan H. & **Eviatar**, Z.(2010). Two hemispheres – two networks: A computational model explaining hemispheric asymmetries while reading ambiguous words. *Annals of Mathematics and Artificial Intelligences*, 59(1), 125-147. IF 0.2 rank 112/115 Computer Science, Szold-yes
- *40. Rothchild, L., **Eviatar**, Z., Shamai A., & Gur, E. (2011) Social cognition in eating disorders: Encoding and representational processes in bingeing and purging patients. *European Eating Disorders Review*, 19, 74-85. IF 1.94 42/114 Clinical Psychology, Szold-yes

- *41. **Eviatar, Z.** & Latzer, Y. (2011). Mind-body relationships: Basic neuropsychology for therapists. *Sichot*, 25(1), 18-28. (Hebrew). , Szold-yes
- *42. Hason-Rozenstein, M., Latzer, Y., Stein, D., & **Eviatar, Z.** (2011). Neuropsychological psychopathology measures in women with eating disorders, their healthy sisters, and nonrelated healthy controls. *Comprehensive Psychiatry*, 52, 587-595. IF 2.38 Rank 61/135 Psychiatry, Szold-yes
- *43. Hochman, E.Y., **Eviatar, Z.**, Barnea, A., Zaaroor, M., & Zaidel, E. (2011). Hemispheric integration is critical for intact error processing. *Neuropsychologia*, 49 (7), 1816-1823. IF 3.5, rank 11/49 Behavioral Neuroscience, Szold-yes
- *44. Abdelhadi, S., Ibrahim, R., & **Eviatar, Z.** (2011) Perceptual load in the reading of Arabic. *Writing Systems Research*. 3, (2), 117–127, Szold-yes
- *45. Hason-Rozenstein, M., Latzer, Y., Stein, D., & **Eviatar, Z.** (2011). Perception of emotion and bilateral advantage in women with eating disorders, their healthy sisters, and nonrelated healthy controls. *Journal of Affective Disorders* 134, 386-395. IF 3.3 rank 48/193 Clinical Neurology, Szold-yes
- *46. Ibrahim, R., & **Eviatar, Z.** (2012). The contribution of the two hemispheres to lexical decision in different languages. *Behavioral and Brain Functions* 8(3). IF 2.8 rank 22/49 Behavioral Neuroscience, Szold-yes
- *47. Netz, H., **Eviatar, Z.** & Kuzar, R. (2012). Do marked topics enhance memory? *Research in Language*, (9.2), 5-17. Szold - no
- *48. Peleg, O., Markus, A., & **Eviatar Z.** (2012). Hemispheric asymmetries in meaning selection: Evidence from the disambiguation of homophonic vs. heterophonic homographs. *Brain and Cognition*. 80(3):328-337. IF 2.8 rank 131/252 Behavioral Neuroscience, Szold-yes
- *49. Assad, H. & **Eviatar, Z.** (2013). The effects of orthographic complexity and diglossia on letter naming in Arabic: A developmental study. *Writing Systems Research*. 5:2, 156-168, DOI: 10.1080/17586801.2013.862163 , Szold-yes
- *50. Assad, H. & **Eviatar, Z.** (2013). Learning to read in Arabic: The long and winding road. *Reading and Writing*. 27:4, 649 -664
- *51. Tibi, R., ***Eviatar, Z.**, & Karni, A. (2013). Fact retrieval and memory consolidation for a movement sequence: Bidirectional effects of 'unrelated' cognitive tasks on procedural memory. *PLOS ONE*, In Press. (*corresponding author) IF 3.73, Szold-yes
- *52. **Eviatar, Z.** & Share, D. (2013) Processing Semitic writing systems: Introduction to a special issue of Writing Systems Research , *Writing Systems Research*, 5:2,131-133, DOI: 10.1080/17586801.2013.863086
- *53. Kreiner H., & **Eviatar Z.**, (2014). The missing link in the embodiment of syntax: Prosody. *Brain and Language*, In Press.

*54. Hayadre, M., Kurzon, D., Peleg, O., & **Eviatar Z.** (2014). Phonological Effects on Ambiguity Resolution in Arabic in the Cerebral Hemispheres. Reading and Writing. In Press

Submitted

*55. Saady, A., Ibrahim, R. & **Eviatar Z.** Language-specific and Language-general Factors in Text Reading in Arabic: Evidence from the Missing Letter Effect.

*56. Benschimol G. & **Eviatar, Z.** Re-examining the "Lateralized Whorf" effect hypothesis: Hemispheric specialization of the influence of language on categorical perception of colors.

*57. Nevat, M., **Eviatar, Z.**, Ullman, M.T, Bitan, T. Morphological inflections in an artificial language: Factors affecting acquisition and generalization.

*58. Rothschild-Yakar, L., Carcom, S., **Eviatar, Z.** Social cognition in Non-verbal Learning Disability (NLD) and Autistic Spectrum Disorder (ASD).

*59. **Eviatar, Z.** (2014). Language and Literacy in the context of Brain, Cognition, and Culture.

E. Articles or Chapters in Scientific Books (which are not Conference Proceedings)

Invited Chapters

Published

1. **Eviatar, Z.** (1998) Attention as a psychological entity and its effects on language and communication. In B. Stemmer & H.A. Whitaker (Eds.) *The handbook of neurolinguistics*. (pp 275-287). London: Academic Press.

2. Pearlman-Avni, S., & **Eviatar, Z.** (2005). Theory of mind in developmental pathologies: Theoretic and methodological issues. In O.T. Ryaskin (Ed.) *Trends in autism research* (pp 89-107). New York: Nova Biomedical Books.

3. Peleg, O., **Eviatar, Z.**, Hazan, H., & Manevitz, L. (2007). Differences and interactions between cerebral hemispheres when processing ambiguous homographs. In L. Paletta and E. Rome (Eds.), *Attention in cognitive systems. Theories and Systems from an Interdisciplinary Viewpoint* (pp. 372-386). Berlin Heidelberg: Springer-Verlag.

*4. Hason-Rosenstein, M., Latzer Y., & **Eviatar, Z.** (2010) Sisters of women with eating disorders: A neurocognitive and personality profile. In O.Sarid, D. Segal-Engelchin, & J. Cwikel (Eds.) *Mind Body Mosaic: Women's Health in Israel* (pp 260-285). Ben Gurion University of the Negev Press: Beer Sheva. (Hebrew).

*5 **Eviatar, Z.** & Latzer Y. (2011). Hemispheric asymmetry in eating disorders. In: Y. Latzer & D. Stein (Eds.). *Epidemiology, etiology, & specific clinical perspectives in eating disorders*. (pp 169-180) New York: Nova Publishing.

*6. **Eviatar, Z.** & Ibrahim, R. (2012). Multilingualism among Israeli Arabs and the neuropsychology of reading in different languages. In M. Leikin, Y. Tobin, & L. Schwartz

(Eds) *Current issues in bilingualism: Cognitive and socio-linguistic perspectives* (pp57-74)
Heidelberg: Springer-Dordrech.

*7. Peleg, O. & **Eviatar**, Z. (2012). Understanding written words: Phonological, lexical and contextual effects in the cerebral hemispheres. (pp59-76) In M. Faust (Ed.), *Handbook of the neuropsychology of language*. John Wiley & Sons, New York.

*8. **Eviatar**, Z. & Ibrahim, R. (2014). Why is it hard to read Arabic? (pp77-96). In E. Saiegh-Haddad & M. Joshi (Eds.). *Handbook of Arabic Literacy: Insights and Perspectives*. Heidelberg: Springer-Dordrech.

F. Articles in Conference Proceedings

Published

1. Schwalm, N.D., **Eviatar**, Z., Golan, Y., & Blumenfeld, Y. (2003). The effect of reading direction habit on numerical processing. *PROCEEDINGS of the HUMAN FACTORS AND ERGONOMICS SOCIETY 47th ANNUAL MEETING—2003*, 1649-1653.

2. Peleg, O., **Eviatar**, Z., Manevitz, L., & Hazan, H. (January 2007). *Using Neural Network Models to Model Cerebral Hemispheric Differences in Processing Ambiguous Words*. Conference proceedings IJCAI07 NeSy'07 (Neural-Symbolic Learning and Reasoning) pg. 24-31.

3. Peleg, O., **Eviatar**, Z., Manevitz, L., & Hazan, H. (2007). *Differences and Interactions between Cerebral Hemispheres When Processing Ambiguous Words*. WAPCV 2007 post-conference proceedings. Springer LNCS.

*4. **Eviatar** Z., Hazan H., Manevitz L., Peleg O. and Timor R. (2010). Interactions between hemispheres when disambiguating ambiguous homograph words during silent reading. In *Proceedings of the International Conference on Fuzzy Computation and 2nd International Conference on Neural Computation*, pages 271-278

L. Summary of my Activities and Future Plans

My research career can be seen as several different strands of interest and work that intersect at different places in different times. My major and initial interest was in the **differential involvement of the cerebral hemispheres in reading** in different languages. I began this research program in the US, with my dissertation and post-doc research, focusing on **English** and on the effects of handedness and sex on this architecture (Eviatar et al., 1990; Eviatar & Zaidel, 1991; 1992; 1994; Eviatar, 1993; Eviatar et al., 1994; Hellige et al., 1994; Eviatar et al., 1997). When I arrived in Israel in 1992, I began to explore how these patterns differ when individuals read other languages. This is being done in two separate but related research programs which are ongoing. One focuses on **reading in Arabic**, begun with my first post-doc, Raphiq Ibrahim. We focused both on hemispheric patterns in skilled readers (Ibrahim et al., 2002; Eviatar et al., 2004; Eviatar & Ibrahim 2004; Eviatar & Ibrahim 2007; Ibrahim & Eviatar, 2009; Ibrahim et al., 2010; Ibrahim & Eviatar, 2012), and on reading acquisition (Eviatar & Ibrahim, 2000; 2013; Ibrahim et al., 2007; Abdelhadi et al., 2011). I continue this line of research with my former PhD student Hanaan Assad

(Assad & Eviatar, 2013a; 2013b) and with shared supervision of two PhD projects with Raphiq Ibrahim, one focusing on dyslexia in Arabic, and the other on computer mediated writing by 9th graders. I am planning an imaging study with Dr. Michal Ben Shachar from Bar Ilan, in which we will use fMRI to test my hypothesis that the right hemisphere is less involved in text reading in Arabic than in Hebrew and English.

The second research program focuses on **reading in Hebrew**, and was developed with my second post-doc, Orna Peleg. Based on my previous studies of hemispheric functions in Hebrew (Eviatar, 1995; 1996; 1997; 1999; Smolka & Eviatar, 2006) we proposed a hemispheric model of reading using ambiguity resolution in divided visual field paradigms (Peleg & Eviatar, 2008; 2009; 2010; Peleg et al., 2012). Here we took advantage of the characteristics of Hebrew to examine **the role of phonology in accessing meaning from print**. In addition to our behavioral studies, we have utilized computational networks in collaboration with Larry Manevitz (Peleg et al, 2007; 2010), and fMRI imaging, together with Tali Bitan (papers in prep). This topic has converged with my interest in Arabic, as it is similar and different from Hebrew in interesting ways (Hayadre et al., 2013). This strand of research is now developing and changing again, with my third post-doc, Tamar Degani, where we look at the **interaction of the orthographic and phonological aspects of the different languages of multilinguals** as they read in one or the other of their languages. These studies are now ongoing. Related to this is a collaboration with Paul Miller on the **reading of deaf individuals** (via the MA thesis of Haim Assor). Tamar and Paul are joining me in a new collaboration with Markus Steinbach and a group of researchers from Gottingen University, to examine reading and multilingualism in the context of both spoken and signed languages. We received a collaboration grant this year to try to put together a DIP proposal on this topic. At the end of November I flew to Germany, and in April they came to Israel for a mini-conference at the IIPDM.

In addition, together with Orna Peleg, Tamar Degani, and Hamutal Kreiner, I am proposing a cross-script study with Mannon Jones from Bangor University in Wales. We plan to examine differential hemispheric involvement in disambiguation of sentences when readers are reading left-to-right and right-to-left scripts, and when they have reading experience in only one or both directions. In addition, Hamutal has invited me to join her in a project to examine the role of prosody as the vehicle for the embodiment of syntax. We have written a theoretical paper (Kreiner & Eviatar, 2014), and will plan experimental tests of our hypotheses.

This past year I have begun a very exciting collaboration with Mila Schwartz, from Oranim College, in which we are examining **linguistic development in the context of bilingual schools**. The logic of the research is to explore phonological, morphological, and word learning abilities in kindergarten, and to test these abilities, together with reading acquisition, in 1st grade. We have run the first part of the study in Arabic-Hebrew bilingual kindergartens, and the preliminary results are showing that in all of these abilities, the children exposed to the bilingual environment perform better than monolingual children with the same home language. Next year we plan to examine reading acquisition in both Hebrew and Arabic, and these findings will complement the work I have done with Ibrahim and Assad in interesting ways. In addition, we plan to use the same paradigms in Hebrew-Russian bilingual kindergartens, to examine how the relationship between the two languages interacts with bilingual development.

A third strand of my interest grew out of my early work in individual differences, where one of the substrates for these differences was posited to be in **interhemispheric interaction**. This interest developed with the work of my PhD student Eldad Hochman, in which we examined hemispheric division of labor in error detection and correction (Hochman & Eviatar, 2004; 2006; Hochman et al, 2009a;

2009b; 2011), and continues with the PhD dissertation of Andrey Markus, who is looking at interhemispheric interaction in executive functions, particularly, monitoring and response selection. Another project within this area utilizes the redundancy gain paradigm to look at interhemispheric interactions behaviorally (the MA theses of Daffi Konis and Yael Bashari) and via imaging, collaborating with Dr. David Manor. A recent publication with Avi Karni (Tibi et al., 2013) based on the MA thesis of Rachel Tibi, is the beginning of utilizing Avi's paradigms to examine the interactions between cognitive mechanisms that may be differentially lateralized.

I also examine **interhemispheric relations in special populations**. In collaboration with Yael Latzer and Lilly Rothschild, the MA thesis of Michal Hasson (Hasson et al. 2011a, 2011b) looked at **hemispheric functions of women with eating disorders** and their sisters, and in her PhD project examining women with bulimia and their mothers (papers in prep). The MA thesis of Adi Shamaia (Rothschild et al., 2011), examined social cognition in women with bulimia. The thesis of Alona Shulimenko **examines interhemispheric transfer in women with anorexia nervosa**, and the PhD of Shamaia Carcom examines these functions in **adolescents with high functioning autism and nonverbal learning disability**. The PhD project of Lilly Crinetz also takes me back to an earlier interest, where we will examine the relationship between **handedness and interhemispheric interactions** in typically developing healthy controls.

The last and newest strand of research interest is related to my own completion of an MSW in clinical social work in 2009. My work as a family therapist has highlighted the crucial role of **language in therapy**, and in **narrative abilities related to the development of the self**. Benny Nadler's PhD dissertation, which I am supervising together with Ora Aviezer, from the Developmental Area, examines the development of inner speech in young children. I have been reading and thinking about inner speech for several years now, and have begun a fascinating collaboration with Jenny Kurman, looking at the relationship between language abilities and the structure of the self, in both mono and bilinguals. We are now supervising the second thesis on this topic, and the preliminary results are exciting and provocative.

To summarize, my research activity circles around the neuropsychology of language, focusing on reading and multilingualism, and the functional architecture of these abilities in the interactions of the cerebral hemispheres. This interaction is fascinating in itself, and some of my work examines it also not in the context of language functions. Both these interests feed into the larger topic of individual differences, which has grown to include my interest in the development of the self, and the role of both language and interhemispheric interactions in this process.