BAR-ILAN UNIVERSITY
FACULTY OF SOCIAL SCIENCE

School of Education
CURRICULUM VITAE
Name: Nira Mashal

PERSONAL DATA

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EDUCATION

Year	**Degree**	**Institution**
1991	B.A., Mathematics	Technion, Israel Institute of Technology, Israel
1998	M.A, Mathematics	Technion, Israel Institute of Technology, Israel
2006	Ph.D., Brain Science, The Leslie and Susan Gonda (Goldschmied) Multidisciplinary Brain Research Center.	Bar-Ilan University, Israel
THESIS:	Cerebral Processing of Metaphoric Language: a Functional Magnetic Resonance Imaging (fMRI) Investigation. **Suma cum Laude**	
SUPERVISOR:	Prof. Miriam Faust, The Leslie and Susan Gonda (Goldschmied) Multidisciplinary Brain Research Center, and Department of Psychology, Bar-Ilan University	
Post-Doctoral:	Northwestern Institute of Neuroscience (NUIN), Department of Psychology, Northwestern University, Evanston, IL, USA. Prof. Mark Beeman	
Post-Doctoral:	Human Neuroscience Laboratory, Department of Neurology, University of Chicago, Chicago, IL, USA. Prof. Steven Small	

ACADEMIC AFFILATIONS/APPOINTMENTS

Year	**Appointment**	**(Work Percentage)**
2003-5	Research Coordinator, Functional Brain Imaging Unit, Wohl Institute for Advanced Imaging, Tel-Aviv Sourasky Medical Center, and The Leslie and	100%

	Susan Gonda (Goldschmied) Multidisciplinary Brain Research Center, Bar-Ilan University, Israel.	
2009- 2014	Instructor, Open University of Israel, Raanana, Israel	10%
2010- present	Member at the Gonda (Goldschmied) Multidisciplinary Brain Research Center, Bar-Ilan University, Israel.	
2008-2014	Senior lecturer- Tenure, School of Education, Bar-Ilan University, Ramat-Gan, Israel	100%
2014- 2016	Associate Prof., School of Education, Bar-Ilan University, Ramat-Gan, Israel	100%
2016- present	**Full Prof**., School of Education, Bar-Ilan University, Ramat-Gan, Israel	100%

PROFESSIONAL FUNCTIONS: (Memberships/Editorial Activities)

2005- present	**Reviewing papers for**: Brain and Language, Journal of Cognitive Neuroscience Frontiers in Human Neuroscience, Frontiers in Psychology, Neuroimage, Neuropsychologia, Neuropsychology, Brain and Cognition, Journal of neurolinguistics, Cerebral Cortex, Journal of Autism and Developmental Disorders, Laterality

ADDITIONAL INFORMATION

1. Vice head School of Education (2014-2016).
2. Chair, Master's degree committee (2014-2016).
3. Head of the special education program (2013- 2017).
4. Associate editor *in Frontiers in Psychology (*2017-18*)*.
5. Member at the Gonda Multidisciplinary Brain Research Center, Bar-Ilan University.
6. Cognitive Behavioral Therapist (CBT) (2017-19)

COURSES TAUGHT/TEACING EXPERIENCE

Graduated:

1. Language, Communication, and the Brain
2. Brain and Cognition
3. Seminar in language and thinking

See LIST OF PUBLICATIONS in the *Publications*

PAPERS PRESENTED AT SCIENTIFIC CONFERENCES (selected)

1. Mashal, N., Faust, M. and Hendler, T., "The role of the right Wernicke in processing novel metaphorical expressions: Cortical correlations evaluated with principal component analysis and fMRI". Tenth Annual Meeting of the Organization for Human Brain Mapping, Budapest, Hungary, 2004.

2. Mashal, N., "Processing conventional vs. novel metaphors by the two cerebral hemispheres: A Functional Imaging Study (fMRI)", The Adams Super Center for Functional Brain Research, Tel Aviv University, 2004.

3. Mashal, N., "Processing conventional vs. novel metaphors by the two cerebral hemispheres: Application of Principal Components Analysis to fMRI data ", The Israel Society for Cognitive Psychology, Bar-Ilan University, 2004.

4. Mashal, N., Faust, M. and Hendler, T., "Unique involvement of right Wernicke in processing novel metaphorical expressions: Application of Principal Components Analysis to fMRI data". Sixteen Annual meeting of Theoretical and Experimental Neuropsychology, Montreal, QC, Canada, 2005.

5. Mashal, N., Faust, M. & Hendler, T., "Processing novel metaphoric sentences taken from poetry: An fMRI study". 47th Annual Meeting of the Psychonomic Society, Houston, Texas, USA, 2006.

6. Mashal, N, Faust, M, & Hendler, T., Unique involvement of the right homologue of Wernicke's area in processing novel metaphorical expressions: Application of principal components analysis to fMRI data. Source: Brain and Cognition, 60(3), 314-314, Published: APR 2006.

7. Mashal, N., Faust, M., "conventionalization of novel metaphors: A shift in hemispheric asymmetry". A poster presented at the Language, Brain, Communication Conference Program, Hadassa college, Jerusalem, 2009.

8. Mashal N. "The 2010 Israeli Magnetic Resonance Society Meeting (IMRSM), "Recruitment of bilateral prefrontal regions in schizophrenia during novel metaphoric

processing: an fMRI Study". Poster presented in June 8-9, 2010, Bar-Ilan University, Israel.

9. Mashal N. "Recruitment of bilateral prefrontal regions in schizophrenia during novel metaphoric processing: an fMRI Study". 2nd Biennial Schizophrenia International Research Conference (SIRS). Poster presented in April 10-14, 2010, Florence, Italy.

10. Mashal, N., Chair, "An investigation of the neural correlates of forming novel semantic relations". International Association for Cognitive Education and Psychology. IACEP 2011: Boston, July 10-14, 2011.

11. Mashal, N., "Novel metaphor comprehension: Insights from special populations and the healthy brain ". A workshop on Brain Imaging of Language Functions, The Gonda Multidisciplinary Brain Research Center, Bar Ilan University , June 19-20, 2011.

12. Mashal, N. & Subramaniam, K., "An investigation of the neural correlates of forming novel semantic relations". Poster presented in The 10th INTERNATIONAL SYMPOSIUM OF PSYCHOLINGUISTICS, April 13-16, 2011, Spain.

13. Mashal, N., Chair, Lexical processes. The Israel association of language and literacy. Kiryat-Ono, 1st July, 2012.

14. Lifshitz Ben-Basat, A., Gvion, A., Vatine, J.J., & Mashal, N. "Transcranial direct current stimulation (tDCS) to improve naming in patients with chronic Aphasia". Poster presented in the 42 annual meeting of the Society of Neuroscience (SFN): Poster presented in October, 10-14, 2012, New-Orleans, USA.

15. Mashal, N., Chair, "Cognition and emotion", Cognitive education, modifiability, learning, and the brain, Bar-Ilan University, 7 January, 2013.

16. Kesner, Y. Mashal, N., & Spector-Levi, O. "Preschoolers' Metaphors Generation during Scientific Engagement as Indicator of Curiosity & Attitude". EARLI 2013.

17. Lifshitz Ben-Basat, A., Gvion, A., Vatine, J.J., & Mashal, N. "Transcranial direct current stimulation to improve naming abilities of persons with chronic aphasia: An individualized based protocol". Neural Plasticity and cognitive modifiability. Jerusalem, 2-5 June, 2013.

18. Mashal, N., Chair, Language production: studies in dyslexia, aphasia, autism, and intellectual disabilities. The Israel association of language and literacy. Kiryat-Ono, 4 July, 2013.

19. Mashal, N., Forming novel semantic relations in special populations and the normal brain. The Creating Mind: Interdisciplinary Perspectives. Bar-Ilan University, 18 December, 2013.

20. Mashal, N., & Metzuyanim, S. Can brain stimulation improve metaphoric comprehension? The Adams Super Center for Brain Studies, Tel-Aviv University, March 13, 2014.

21. Kavé, G., Gavrieli, R., & Mashal, N. Stronger left-hemisphere lateralization in older versus younger adults while processing conventional metaphors. Cognitive Aging Conference, Atlanta. April 3-6, 2014.

22. Mashal, N., & Franko, Z. When a Metaphor is a Spiral Ladder- Brain Basis for Metaphors of Biology as Increasing Motivational Learning. European Researches in Didactics of Biology – ERIDOB 2014, Haifa, June 30th – July 4th, 2014.

23. Shimon Rabichev, Anatoly Kreinin, Nira Mashal, & Albert Pinhasov. Physiological device for attention deficit hyperactivity disorder (ADHD) assessment. Stress, PTSD and Psychiatric Disorders: From Basic Science to Theraputic Intervention, Weitzmann Institute of Science, September 7-9, 2014.

24. Segal, D., Mashal, N., & Shalev-Mevorach, L. Semantic conflict resolution abilities among adults with and without ADHD. Amsterdam, Society for the Neurobiology of Language (SNL), June 27-29, 2014.
25. Borodkin, K., Mashal, N., & Faust, M. Hemispheric Involvement in Native and Non-Native Comprehension of Conventional Metaphors. Amsterdam, Society for the Neurobiology of Language (SNL), June 27-29, 2014.

26. Segal, D., Shalev-Mevorach, L., & Mashal, N. Attenuated hemispheric specialization in metaphor processing among adults with ADHD. Second Conference on Cognition Research of the Israeli Society for Cognitive Psychology, Akko, February, 24, 2015.

27. Kasirer, A. & Mashal, N. The comprehension and production of metaphoric language in adolescents with ASD. The 51st annual meeting of the Israeli Association of Speech Pathologists, Tel-Aviv, February, 9-10, 2015.

28. Lifshitz Ben Basat, A., Gvion, A., Vatine, J.J., & Mashal, N. Transcranial direct current stimulation to improve naming abilities of persons with chronic aphasia: A preliminary study using individualized based protocol. Conference Committee of Collaboration of Aphasia Trialists (CATs), City University, London, March 6, 2015.

29. Saban-Bezalel, R., Hess, S., Dolfin, D., Hermesh, H., Vishne, T. & Mashal, N. Hemispheric Processing of Idioms in Schizophrenia and Autism Spectrum Disorder. Israel Association of Biological Psychiatry. Kibutz HaGoshrim, March 24-26, 2015.

30. Saban-Bezalel, R., Hess, S., Dolfin, D., Hermesh, H., Vishne, T. & Mashal, N. Hemispheric Processing of Idioms in Schizophrenia and Autism Spectrum Disorder. The 15th conference meeting if the Israel Psychiatric Association. Tel-Aviv, May 26-28, 2015.

31. Sharir, T., Mashal, N., & Mevarech, Z. Metacognitive Intervention in Kindergarten: The effects on Spontaneous Recognition of Mathematical Structures. Porto, Portugal, June 29 - July 1st, 2016.

32. Osovlansky, H. & Mashal, N. The role of the superior temporal gyrus in processing semantic and pragmatic information: A transcranial Direct Current Stimulation study. The neuropsychological society in Israel, The Open University, Raannana, February 7, 2017.

33. Ehrenreich, Y. & Mashal, N. The effects of transcranial direct current stimulation treatment on reading comprehension and auditory learning. The neuropsychological society in Israel, The Open University, Raannana, February, 7, 2017.

34. Arie, M. & Mashal, N. Improving irony comprehension in adolescents with ASD.

The eighth annual meeting of Keshet center, Child Development Center, Sheba Medical Center, Ramat Gan, January 3- 4, 2017.

35. Kasirer, A. & Mashal, N. Creative metaphor production in children with ASD. The eighth annual meeting of Keshet center, Child Development Center, Sheba Medical Center, Ramat Gan, January 3- 4, 2017.

36. Erenreich, Y. & Mashal N. The effects of transcranial direct current stimulation treatment on reading comprehension and auditory verbal learning.The annual meeting of the Isralei association of neuropsychology. February, 7, 2017.

37. Osivlanski, H. & Mashal, N. The role of the superior temporal gyrus in processing semantic and pragmatic information: A transcranial Direct Current Stimulation study. The annual meeting of the Isralei association of neuropsychology. February, 7, 2017.

38. Mashal, N. & Saban- Bezalel, R. The effects of intervention on the comprehension of irony and on hemispheric processing of irony in adults with ASD. 2018 International Symposium on Education and Psychology, April 1-3, 2018, Osaka, Japan.