March 2023

MICHAL BEN-SHACHAR - CV

Positions

2022-present	Full Professor (tenured) Department of English Literature and Linguistics Member of the Gonda Brain Research Center Bar Ilan University
2018 to 2022	Head of the BSc Program in Brain Sciences Bar Ilan University
2019 to 2022	Associate Professor (tenured) Department of English Literature and Linguistics Member of the Gonda Brain Research Center Bar Ilan University
2013 to 2018	Senior lecturer (tenured) Department of English Literature and Linguistics Member of the Gonda Brain Research Center Bar Ilan University Member of the I-Core Center of Excellence in Cognitive Science
2015 to 2016	Visiting Scholar Department of Psychology and Department of Developmental and Behavioral Pediatrics Stanford University
2008 to 2013	Lecturer Department of English, Linguistics Division Member of the Gonda Brain Research Center Bar Ilan University Member of the I-Core Center of Excellence in Cognitive Science
2007-2008	Research Associate, Department of Psychology and Department of Developmental and Behavioral Pediatrics Stanford University
2004-2007	Postdoctoral Fellow, Department of Psychology Wandell lab Stanford University

Education

1999-2004	Doctor of Philosophy Tel Aviv University Dissertation: *Syntactic transformations in the brain* Advisor: Prof. Yosef Grodzinsky
1996-1998	Master of Arts (Summa cum laude) Tel Aviv University, Department of Psychology Thesis: *On-line processing of sentences containing syntactic islands* Advisors: Prof. Yosef Grodzinsky and Prof. Uri Hadar
1992-1996	Undergraduate studies Tel Aviv University The Adi Lautman Interdisciplinary Program for the Fostering of Excellence

Teaching

2008-present	Courses taught in Bar Ilan University: 'Brain imaging of language functions' (core course in the neuroscience graduate program), 'Psycholinguistics' (Linguistics BA), 'Psycholinguistics and research methods' (Linguistics MA), 'Introduction to Brain and Language' (core course in brain science BSc program), 'Neurolinguistics and psycholinguistics of sentence processing' (graduate seminar, Linguistics), 'Acquired language and reading impairments' (undergraduate and graduate seminars in Linguistics).
2004-6	Stanford: Guest lecturer on 'Psycholinguistics of reading', 'Acquired Dyslexias' and 'Reading development and reading deficits', as part of the courses 'Reading: Science, education and policy' (HumBio 153) and 'Cognitive development' (Psych 141).
2002-2003	Tel Aviv University and TASMC: Lecturer, 'Statistics of fMRI', Joint Unit for Brain Imaging.
1998-2003	The Open University: Academic Coordinator and Instructor, 'Critical thinking: Statistical reasoning and intuitive judgment', Department of Psychology and Education.
1996-2001	The Open University: Instructor, 'Foundations of Cognitive Psychology', Department of Psychology and Education.
1996-1998	Tel-Aviv University: Coordinator and teaching assistant, 'Introduction to cognitive sciences' and 'Psycholinguistics', Division of Formal Approaches to Knowledge and Decision for Excellent Students.

Academic Grants and Awards

2022-2023	Collaborative Research Grant, Data Science Institute Bar Ilan (PI1: Ben-Shachar, co-PIs: Yael Greenberg, Yoav Goldberg): "Prediction, Expectation and Mirativity in Natural Language".
2021-2022	Collaborative grant, The Gonda Brain Research Center (PI1: Ben-Shachar, PI2: Gal Chechik): "Quantifying hemispheric lateralization of white matter tracts using deep neural networks".
2018	Rector's Prize for Scientific Innovation, Bar Ilan University.
2017-2021	Israel Science Foundation, Individual research grant (PI1: Ben-Shachar, PI2: Ofer Amir): "Cerebral and cerebellar white matter pathways controlling speech rate in adults who stutter".
2016	Institutional equipment grant for a 3T MRI machine (with Moshe Bar and Elana Zion-Golumbic) [funded but not utilized for lack of matching]
2014	I-Core jump-start grant, Cercom center of excellence for cognition (with Tamar Flash, Weizmann Institute) "Brain networks involved in perception and production of biological hand motion and speech movements: a MEG study"
2013	I-Core jump-start grant, Cercom center of excellence for cognition (with Roy Mukamel, Tel-Aviv University) "Decoding letter position in written words from brain activity"
2012-2017	National Institute of Health, subaward (R01 HD069162-01A1, lead PI Heidi Feldman, Stanford) "Poor Reading in Preterms: Neural Basis, Prediction and Response to Intervention"
2012-2014	National Institute for Psychobiology "How learning to read shapes structural connectivity and cortical responses in adult illiterates"
2012-2016	Binational Science Foundation Israel-US (PI1: Ben-Shachar; co-PIs Brian Wandell (Stanford) and Naama Friedmann (Tel-Aviv)) "Brain systems for letter localization in reading"
2011-2015	Israel Science Foundation (PI1: Ben-Shachar; PI2: Ofer Amir, Tel-Aviv) "Language and motor pathways in adult stuttering"
2008-2012	Marie Curie International Reintegration Grant "The development of neural systems for language processing"
2009, 2011	Rector grant, Bar Ilan University

University roles

- Head of V1 - Excellence Program of the Undergraduate Program in Brain Sciences, Bar Ilan University (2022-2023).
- Head, Undergraduate Program in Brain Sciences, Interdisciplinary Unit, Bar Ilan (2018-current).
- Member of the institutional review board (IRB), Bar Ilan (2017-2019).
- Member and Chair of Ethics Committee, Faculty of Humanities, Bar Ilan (2013-2019).
- Coordinator, Linguistics in Clinical Research program, Bar Ilan (2010-2018).

- Graduate student consultant, Linguistics Division of the English Department, Bar Ilan (2010-2012).
- Academic coordinator of the Linguistics track, B.Sc. program in Brain Sciences, Bar Ilan (2009-2013).
- Member of the teaching committee, undergraduate program in Brain Sciences, Bar Ilan (2009-2015, 2018-current).
- Member of the teaching committee, graduate program in Brain Sciences, Bar Ilan (2012-2015, 2018-current).
- Member of nominations committee, The Gonda Brain Research Center (2021).

Professional Activities

- Senior Editor: Neurobiology of Language (2019-current).
- Editorial board member: Journal of Fluency Disorders (2022-current).
- Chair of Review Committee, Israel Higher Board of Education (2022).
- Associate Editor: Frontiers in Language Sciences (2018-2022).
- Editorial board member: Journal of Neuroscience Methods (2015-2021).
- Advisory board member: Journal of Brain Structure and Function (2021-current).
- Chair of the Nomination Committee, Society for Neurobiology of Language (Chair: 2021; Member: 2020, 2022)
- Chair of the Program Committee, Society for Neurobiology of Language (2018)
- Board member, Society for Neurobiology of Language (2017-2019).
- Panel member, ISF (undisclosed years).
- Panel member, BSF (undisclosed year).
- Reviewer (journals): Neuron, Nature Neuroscience, PNAS, Brain structure and Function, Journal of Cognitive Neuroscience, Journal of Neuroscience, Language and Cognitive Processes, Cerebral Cortex, NeuroImage, Brain and Language, Brain Imaging and Behavior, Computational Neuroimaging, Cortex, Human Brain Mapping, Psychiatry Research: Neuroimaging, Journal of Neurolinguistics, Frontiers in Human Neuroscience, Neuropsychologia, Glossa.
- Reviewer (grants): ERC (Advanced), National Science Foundation (NSF), Israel Science Foundation (ISF), Binational Science Foundation US-Israel (BSF), National Institute for Psychobiology Israel, French National Research Agency (ANR), grant proposals submitted to the Human Brain Project initiative funded by the European Commission.
- Organizer: Good Clinical Practice Fundamentals course, Bar Ilan May 2015.
- Organizing committee: 'Brain imaging of language functions', Bar Ilan, June 2011.
- Scientific advisor: Bloomfield Science Museum Jerusalem, Brain and Language exhibits, 2008.
- Organizing committee: 'Computational NeuroImaging workshop', Stanford, July 2004.

Student advising

- Graduate students: Shira Farby (Linguistics, graduated), Nadav Stoppelman (Gonda Brain Reseach Center, graduated), Vered Kronfeld-Duenias (GBRC, graduated), Tal Blecher (GBRC, graduated), Chen Gafni (GBRC, graduated), Noa Oliva-Finger (Ben-Gurion Cognitive Science program, 2nd advisor with Ilan Dinstein, graduated), Maya Yablonski (GBRC, Graduated), Sivan Jossinger (GBRC, graduated), Alina Bihovsky (Linguistics in

clinical research, proposal confirmed), Romi Sagi (GBRC, proposal confirmed), Benjamin Menashe (GBRC).

- MA students: Tali Halag-Milo (Ben-Gurion Cognitive Science program, graduated), Edna Litmanovitch (GBRC, graduated), Alina Bihovsky (Linguistics in clinical research, graduated), Galit Schneider (Linguistics in clinical research, graduated), Hadar Altshuler (Linguistics, with Yael Greenberg, graduated), Yael Gera (Linguistics in Clinical Research, proposal confirmed), Rachel Eliahu (GBRC), Noam Sabala (GBRC).
- Postdocs: Oren Civier (2012-2016), Tamar Levy (2013-2015), Vered Kronfeld-Duenias (2015-2016), Galit Agmon (2018-2020), Dana Suri-Barot (2020-2021), Maya Yablonski (2019-2020), Sivan Jossinger (2022-2023).

Collaborators

- Prof. Brian Wandell, Psychology Department, Stanford University
- Prof. Heidi Feldman and Dr. Katherine Travis, Developmental and Behavioral Pediatrics, Stanford Medical School
- Prof. Kathy Rastle, Psychology Department, The Royal Holloway, University of London
- Prof. Brenda Rapp, Department of Cognitive Science, Johns Hopkins University
- Dr. Jo Taylor, Psychology and Language Sciences, University College London
- Prof. Vincent Gracco, School of Communication Sciences, McGill University
- Prof. Ofer Amir, Communication disorders, Tel Aviv University
- Prof. Lior Shmuelof, Zlotowsky Center for Neuroscience, Ben-Gurion University

Invited talks

- Invited speaker: Future of Neuroscience Symposium: ‘Language pathways in the human brain: What we know, what we don't know, and what we need to know going forward’, November 2021 (symposium postponed to Nov 2022 due to Covid 19), ELSC, The Hebrew University.
- Invited speaker: C-STAR lecture series: ‘Multiple white matter pathways for language processing in the human brain’. March 2021, University of South Carolina (online).
- Invited speaker: OHBM (international Organization for Human Brain Mapping) educational course on “Tractometry: Peering into the white matter”. Invited to present on ‘Applications of tractometry to high-level cognition’. June 2021 (online).
- Invited speaker: Annual Conference of the Israeli Speech, Hearing and Language Association (ISHLA). Invited speaker in the session on Stuttering Research. February 2021.
- Invited speaker: BIU Vision Science seminar series: ‘Surprising generalizations in the neural implementation of Hebrew and English word reading’. January 2021 (online).
- Israeli Society for Neuropsychology, invited speaker: ‘Brain systems that modulate speech fluency – Brain imaging studies in adults who stutter and in MS patients’. February 2020, Tel-Aviv Academic College.
- Jerusalem Brain Community retreat, external invited speaker: ‘Some similarities in the neural implementation of written word recognition in Hebrew and English’, June 2019, Mitspe Ramon.

- Continuing studies, Department of Speech and Language Pathologies, Tel-Aviv University: 'The neural basis of developmental stuttering', November 2018 (in Hebrew), Tel-Aviv University.
- Humanities Faculty Forum, Bar Ilan University: 'What can we learn about morphological processing in Hebrew from miniature eye movements (microsaccades) and from brain connectivity measures', April 2018 (in Hebrew).
- International workshop on language and literacy development in multilingual and multidialectal setups, Bar Ilan University: 'Neural pathways that support reading in Hebrew and English', March 2018.
- Departmental colloquium, ELSC, Hebrew University: Dorsal and ventral neural pathways in language processing, January 2018.
- Departmental Colloquium, Psychology Department, Haifa University: Dorsal and ventral neural pathways in language processing, December 2017.
- Invited speaker, Basque Center for Brain and Language: 'White matter pathways that support reading and speech production in typical and atypical populations', San Sebastian, Spain, June 2017.
- Invited speaker in an international symposium on 'Writing Systems, Language and Reading', The annual meeting of the EPS (Experimental Psychology Society), Reading, UK, July 2017.
- Invited speaker in an international workshop on 'First vs. Second Language Learning: from Neurobiology to Cognition', The Hebrew University, September 2016.
- Invited speaker in an international workshop on 'Neural plasticity and Learning', The Institute for Mind and Brain, University of South Carolina: 'The development of white matter pathways that support reading and speech production in typical and atypical populations', October 2015.
- Departmental colloquium, Language Logic and Cognition Center, The Hebrew University: 'Cerebral and cerebellar white matter pathways underlying speech and reading', March 2015.
- Departmental Colloquium, Psychology Department, Tel-Aviv University: Cerebral and cerebellar white matter pathways underlying speech and reading', January 2015.
- Invited speaker in a national workshop on diffusion MRI, ELSC, The Hebrew University: 'White matter pathways for language and reading in developmental and clinical populations', December 2014.
- Invited speaker in a national workshop to SLPs at Meuhedet HMO: 'The neural basis of developmental stuttering'. November 2014.
- Invited speaker in conference organized by the Israeli Speech Hearing and Language Association: 'The neural basis of developmental stuttering'. November 2014.
- Challenges and Debates in the Frontiers of Brain and Cognition Research, The Weizmann Institute, Rehovot: 'White matter language pathways in adult stuttering', December 2013.

- Departmental Seminar, The Department of Child and Adolescent Psychiatry, Schneider Children Hospital, Petah Tikva: 'Brain connectivity in reading acquisition and in developmental stuttering', November 2013.
- From Form to Meaning, Invited speaker in an international workshop held at Cambridge, UK: 'Developmental change in cortical sensitivity to print and supporting white matter circuits', September 2013.
- Departmental Seminar, Department of Psychiatry, University of California at San Francisco: 'White matter pathways for language and reading in healthy development and in clinical populations', July 2013.
- 100 Years of Research, Innovation and Discourse in Education, Teacher Education and Music Education, Dan Panorama, Tel-Aviv: '*How the brain changes when children learn to read*', December 2012.
- International thoughts on mind and brain, Gonda Brain Research Center, Bar Ilan: '*White matter language pathways in healthy development and in clinical populations*', October 2012.
- 2nd language acquisition workshop, Hebrew University: *'Functional and structural changes in children's brains while they acquire literacy in their L1'*, May 2012.
- Speech and language pathology colloquium, Haifa University: *'Imaging white matter language pathways in healthy and clinical populations'*, April 2012.
- Zlotowski center for neuroscience colloquium, Ben-Gurion University: *'The development of brain systems for reading in school age children'*, March 2012.
- Workshop on 'The Neuroscience of Language Development: Structure and Function', Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, November 2011.
- Symposium on 'Neural and Linguistic Bases of Language Development', University of Tubingen: *'The development of cortical pathways for visual and phonological word processing in school age children'*, May 2011.
- Goethe University Frankfurt, Department of Psychology: *'The development of reading pathways in school age children'*, May 2011.
- 15th meeting of the Israel Society for Biological Psychiatry, Hagoshrim, Israel: *'White matter pathways for language and reading in healthy and clinical developmental populations'*, March 2011.
- Linguistics Department Colloquium, Ben-Gurion University: *'White matter pathways for language and reading*', June 2010.
- Adam center Inauguration, Levinsky College: *'Development of language and reading pathways'*, March 2010.
- Neurobiology Department Colloquium, The Weizmann Institute: '*The Development of Reading Pathways in School Age Children*', February 2009.
- Linguistics Department Colloquium, Tel-Aviv University: '*Quantitative neuroimaging: Applications for neurolinguistics*', January 2009.

- Psychology Department Colloquium, The Hebrew University: '*The Development of Reading Pathways in School Age Children*', December 2008.
- From Neurons to Language, an international workshop, Bar Ilan University: '*DTI studies of white matter language pathways in adults and children*', June 2008.
- Tel-Aviv Human Brain Mapping 10th conference: '*The development of reading pathways in school age children*', July 2008.
- Friday Cognitive Seminar, Stanford: '*Developmental changes in cortical sensitivity to visual words*', February 2008.
- Smith Kettlewell Eye Research Institute, San Francisco: '*The development of reading pathways*'. November 2006.
- Cognitive Science lunch, Stanford: '*fMRI studies of word reading in children and adults*'. March 2006.
- Friday Cognitive Seminar, Stanford: '*Functional Imaging of Visual Word Recognition in Adults and Children*', April 2005.
- Symbolic Systems Forum / SPLAT, Stanford: '*Functional MRI studies of Long Distance Dependencies*', March 2005.
- Linguistics Department Colloquium, Ben-Gurion University: '*A functional imaging investigation of syntactic movement*', May 2004.
- Linguistics Department Colloquium, Tel Aviv University: '*fMRI of syntactic movement: Evidence from Topicalization, wh-Questions and Object relatives*'. April 2004.
- "Between the brain and consciousness", Annual symposium organized by the interdisciplinary program in Tel-Aviv University. 'On line sentence processing of Hebrew sentences'. January 1998.

Publications

Journal articles

1. Jossinger, S., Yablonski, M., Amir, O., Ben-Shachar, M. (In Press). The Contributions of the Cerebellar Peduncles and the Frontal Aslant Tract in Mediating Speech Fluency. Neurobiology of Language.
2. Jossinger, S., Sares, A., Zislis, A., Sury, D., Gracco, V., **Ben-Shachar, M.** (2022). White matter correlates of sensorimotor synchronization in persistent developmental stuttering. *Journal of Communication Disorders* 95:106169. doi: 10.1016/j.jcomdis.2021.106169.
3. Agmon, G., Yahav, P.H., **Ben-Shachar, M.**, Golumbic, E.Z. (In press). Attention to Speech: Mapping Distributed and Selective Attention Systems. *Cerebral Cortex*. doi: 10.1093/cercor/bhab446.
4. Duñabeitia, J.A., Baciero, A., Antoniou, K., Antoniou, M., Ataman, E., Baus, C., **Ben-Shachar, M.**, Çağlar, O.C., Chromý, J., Comesaña, M., Filip, M., Đurđević, D.F., Dowens, M.G., Hatzidaki, A., Januška, J., Jusoh, Z., Kanj, R., Kim, S.Y., Kırkıcı, B.,

Leminen, A., Lohndal, T., Yap, N.T., Renvall, H., Rothman, J., Royle, P., Santesteban, M., Sevilla, Y., Slioussar, N., Vaughan-Evans, A., Wodniecka, Z., Wulff, S., Pliatsikas, C. (2022). The Multilingual Picture Database. *Scientific Data* 9(1):431. doi: 10.1038/s41597-022-01552-7.

5. Brignoni-Pérez, E., Dubner, S.E., **Ben-Shachar, M.**, Berman, S., Mezer, A.A., Feldman, H.M., Travis, K.E. (2022). White matter properties underlying reading abilities differ in 8-year-old children born full term and preterm: A multi-modal approach. *Neuroimage*. 256:119240. doi: 10.1016/j.neuroimage.2022.119240.
6. Goldstein Ferber, S., Weller, A., **Ben-Shachar, M.**, Klinger, G., Geva, R. (2022). Development of the Ontogenetic Self-Regulation Clock. *Int J Mol Sci*. 23(2):993.
7. Yablonski, M., Menashe, B. **Ben-Shachar, M.** (2021). A general role for ventral white matter pathways in morphological processing: going beyond reading. *NeuroImage* 226: 117577. doi: 10.1016/j.neuroimage.2020.117577.
8. Yeatman, J.D., Tang, K.A., Donnelly, P.M., Yablonski, M., Ramamurthy, M., Karipidis, I.I., Caffarra, S., Takada, M.E., Kanopka, K., **Ben-Shachar, M.**, Domingue, B.W. (2021). Rapid online assessment of reading ability. *Scientific Reports* 11(1):6396.
9. Jossinger, S., Kronfeld-Duenias, V., Zislis, A., Amir, O., **Ben-Shachar, M.** (2021). Speech rate association with cerebellar white matter diffusivity in adults with persistent developmental stuttering. *Brain Structure and Function* 226(3):801-816.
10. Yablonski, M., **Ben-Shachar M.** (2020). Sensitivity to word structure in adult Hebrew readers is associated with microstructure of the ventral reading pathways. *Cortex* 128:234-253.
11. Bruckert, L., Travis, K.E., Mezer, A.A., **Ben-Shachar, M.**, Feldman, H.M. (2020). Associations of Reading Efficiency with White Matter Properties of the Cerebellar Peduncles in Children. *Cerebellum*. doi: 10.1007/s12311-020-01162-2.
12. Jossinger, S., Mawase, F., **Ben-Shachar*, M.**, Shmuelof*, L. (2020). Locomotor Adaptation Is Associated with Microstructural Properties of the Inferior Cerebellar Peduncle. *Cerebellum* 19(3):370-382. *Equal contribution
13. Gafni, C., Yablonski, M. and **Ben-Shachar, M.** (2019). Morphological sensitivity generalizes across modalities. *The Mental Lexicon* 14(1): 37-67.
14. Blecher, T., Miron, S., Grimberg-Schneider, G., Achiron, A. and **Ben-Shachar, M.** (2019). Association between white matter microstructure and verbal fluency in patients with Multiple Sclerosis. *Frontiers in Psychology* 10:1607.
15. Bruckert, L., Borchers, L.R., Dodson, C.K., Marchman, V.A., Travis, K.E., **Ben-Shachar, M.**, Feldman, H.M. (2019). White matter plasticity in reading-related pathways differs in children born preterm and at term: a longitudinal analysis. *Frontiers in Human Neuroscience* 13:139.
16. Dubner, S.E., Dodson, C.K., Marchman, V.A., **Ben-Shachar M**, Feldman HM, Travis KE. (2019). White matter microstructure and cognitive outcomes in relation to neonatal inflammation in 6-year-old children born preterm. *Neuroimage Clinical* 23:101832.

17. Bruckert, L., Shpanskaya, K., McKenna, E.S., Borchers, L.R., Yablonski, M., Blecher, T., **Ben-Shachar, M.**, Travis, K.E., Feldman, H.M., Yeom, K.W. (2019). Age-dependent white matter characteristics of the cerebellar peduncles from infancy through adolescence. *Cerebellum* 18(3): 372-387.

18. Borchers, L.R., Bruckert, L., Dodson, C.K., Travis, K.E., Marchman, V.A., **Ben-Shachar, M.**, Feldman, H.M. (2019). Microstructural properties of white matter pathways in relation to subsequent reading abilities in children: A longitudinal analysis. *Brain Structure and Function* 224(2): 891-905.

19. Yablonski, M., Rastle, K., Taylor, J.S.H., **Ben-Shachar M.** (2019). Structural properties of the ventral reading pathways are associated with morphological processing in adult English readers. *Cortex* 116: 268-285.

20. Dodson, C.K., Travis, K.E., Borchers, L.R., Marchman, V.A., **Ben-Shachar, M.**, Feldman, H.M. (2018). White matter properties associated with pre-reading skills in 6-year-old children born preterm and full-term. *Developmental Medicine and Child Neurology* 60(7):695-702.

21. Kronfeld-Duenias, V., Civier, O., Amir, O., Ezrati-Vinacour, R. and **Ben-Shachar, M.** (2018). White matter pathways in persistent developmental stuttering: lessons from tractography. *Journal of Fluency Disorders 55*, 68-83.

22. Yablonski, M., Bonneh, Y., Polat, U. and **Ben-Shachar, M.** (2017). Microsaccades are sensitive to word structure: A novel approach to study language processing. *Scientific Reports 7(1)*:3999. doi: 10.1038/s41598-017-04391-4.

23. Makov, S., Sharon, O., Ding, N., **Ben-Shachar, M.**, Nir, Y., Zion Golumbic, E. (2017). Sleep Disrupts High-Level Speech Parsing Despite Significant Basic Auditory Processing. *Journal of Neuroscience 37(32)*, 7772-7781.

24. Dodson, C.K., Travis, K.E., **Ben-Shachar, M.**, Feldman, H.M. (2017). White matter microstructure of 6-year old children born preterm and full term. *Neuroimage Clinical 16*, 268-275.

25. Le, R., Witthoft, N., **Ben-Shachar, M.** and Wandell, B.A. (2017). The field of view available to the ventral occipital temporal reading circuitry. *Journal of Vision 17(4):* 6.

26. Kronfeld-Duenias, V., Amir, O., Ezrati-Vinacour, R., Civier, O. and **Ben-Shachar, M.** (2017). The dorsal language pathways in stuttering: Response to commentary. *Cortex 90*,169-172.

27. Oliva-Fingher, N., Dinstein, I., **Ben-Shachar, M**., Haar, S., Dale, A.M., Eyler, L., Pierce, K. and Courchesne, E. (2017). Toddlers later diagnosed with autism exhibit multiple structural abnormalities in temporal corpus callosum fibers. *Cortex 97*, 291-305.

28. Travis, K.E., Adams, J.N., Kovachy, V.N., **Ben-Shachar, M.** and Feldman, H.M. (2017). White matter properties differ in 6-year old Readers and Pre-Readers. *Brain Structure and Function 222(4),*1685-1703.

29. Kronfeld-Duenias, V., Amir, O., Ezrati-Vinacour, R., Civier, O. and **Ben-Shachar, M.** (2016). Dorsal and ventral language pathways in persistent developmental stuttering. *Cortex 81*, 79-92.

30. Blecher, T., Tal, I. and **Ben-Shachar, M.** (2016). White matter microstructural properties correlate with sensorimotor synchronization abilities. *NeuroImage 138*, 1-12.

31. Yablonski, M. and **Ben-Shachar, M.** (2016). The Morpheme Interference Effect in Hebrew: a Generalization across the Verbal and Nominal Domains. *The Mental Lexicon 11(2)*, 277-307.

32. Travis, K.E., **Ben-Shachar, M.**, Myall, N.J. and Feldman, H.M. (2016). Variations in the neurobiology of reading in children and adolescents born full term and preterm. *NeuroImage Clinical 11*, 555-565.

33. Halag-Milo, T., Stoppelman, N., Kronfeld-Duenias, V., Civier, O., Amir, O., Ezrati-Vinacour, R. and **Ben-Shachar, M.** (2016). Beyond production: Brain responses during speech perception in adults who stutter. *NeuroImage Clinical 11*, 328–338.

34. Travis, K.E., Adams, J.N., **Ben-Shachar, M.** and Feldman, H.M. (2015). Decreased and Increased Anisotropy along Major Cerebral White Matter Tracts in Preterm Children and Adolescents. *PLOS One 10(11)*, e0142860.

35. Civier, O., Kronfeld-Duenias, V., Amir, O., Ezrati, R., and **Ben-Shachar, M.** (2015). Reduced fractional anisotropy in the anterior corpus callosum is associated with reduced speech fluency in persistent developmental stuttering. *Brain and Language 143*, 20-31.

36. Travis, K.E., Leitner, Y., **Ben-Shachar, M.,** Yeom, K. and Feldman, H.M. (2015). Case Series: Fractional anisotropy profiles of the cerebellar peduncles in adolescents born preterm with ventricular dilation. *Journal of Child Neurology 31(3)*, 321-7.

37. Leitner, Y., Travis, K.E., **Ben-Shachar, M.**, Yeom, K. and Feldman, H.M. (2015). Tract profiles of the cerebellar white matter pathways in children and adolescents. *Cerebellum 14(6)*,613-623.

38. Kronfeld-Duenias, V., Amir, O., Ezrati-Vinacour, R., Civier, O., **Ben-Shachar, M.** (2016). The frontal aslant tract underlies speech fluency in persistent developmental stuttering. *Brain Structure and Function 221(1)*, 365-381.

39. Travis, K.T., Leitner, Y., Feldman, H. and **Ben-Shachar, M.** (2015). Cerebellar white matter pathways are associated with reading skills in children and adolescents. *Human Brain Mapping 36(4)*, 1536-53.

40. Ossmy, O., **Ben-Shachar, M**. and Mukamel, R. (2014). Decoding letter position in word reading. *Cortex 59*, 74-83.

41. Dotan Ben-Soussan, T., Avirame, K., Glicksohn, J., Goldstein, A. and **Ben-Shachar, M.** (2014). Changes in cerebellar activity and interhemispheric coherence accompany improved reading performance following Quadrato motor training. *Frontiers in systems neuroscience Vol. 8*, Article 81.

42. Stoppelman, N., Harpaz, T. and **Ben-Shachar, M.** (2013). Do not throw out the baby with the bath water: Choosing an effective baseline for language localization. *Brain and Behavior 3(3), 211-22*.

43. Yeatman, J.D., Dougherty, R.F., **Ben-Shachar, M.** and Wandell, B.A. (2012). Dual process account of the joint development of white matter and reading skills. *PNAS 109(44)*, E3045-53.

44. **Ben-Shachar, M.**, Dougherty, R.F., Deutsch, G.K., and Wandell, B.A. (2011). The development of cortical sensitivity to visual word forms. *Journal of Cognitive Neuroscience*, 23(9):2387-99.

45. Yeatman, J.D., Dougherty, R.F., Rykhlevskaia, E., Sherbondy, A.J., Deutsch, G.K., Wandell, B.A. and **Ben-Shachar, M.** (2011). Anatomical Properties of the Arcuate Fasciculus Predict Phonological and Reading Skills in Children. *Journal of Cognitive Neuroscience*, 23(11):3304-17.

46. Yeatman, J.D., **Ben-Shachar, M.**, Glover, G.H. and Feldman, H. (2010). Individual differences in auditory sentence comprehension in children: An exploratory event-related functional magnetic resonance imaging investigation. *Brain and Language* 114(2):72-9.

47. Andrews, J.S., **Ben-Shachar, M.**, Yeatman, J.D., Flom, L.L., Luna, B., Feldman, H.M. (2010). Reading performance correlates with white-matter properties in preterm and term children. *Developmental Medicine and Child Neurology* 52(6): 94-100.

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Abstracts of conference presentations and conference proceedings

- Sagi, R., Taylor, J.S.H., Rastle, K., **Ben-Shachar, M.** (2021). White matter pathways associated with spelling abilities. Poster presented at the Gonda Annual Conference, Bar Ilan.

- Bihovski, A., **Ben-Shachar, M.**, Meir, N. (2021). Underlying mechanisms of language mixing in the two languages of bilingual patients with aphasia. Talk delivered at the Bilingualism Matters Research Symposium (BMRS21).

- Bihovski, A., **Ben-Shachar, M.**, Meir, N. (2021). Language mixing in narratives of Russian- Hebrew bilingual patients with aphasia. Poster presented at the 11th Meeting on communication disorders in multilingual and multicultural populations, Hadassah College Jerusalem.

- Yablonski, M., Weiss, Y., Menashe, B., Katzir, T., Bitan, T., **Ben-Shachar, M.** (2020). White matter pathways in adult Hebrew readers with developmental dyslexia: a compensatory role of the right hemisphere in phonological and morphological processing. Submitted to the Society for Neurobiology of Language, Philadelphia, USA.

- Agmon, G., Har-Shai, P., **Ben-Shachar, M.** & Zion-Golumbic, E. (2020). Neural networks for attention to speech: Mapping distributed and selective attention onto the brain. Submitted to the Society for Neurobiology of Language, Philadelphia, USA.

- Jossinger, S., Sares, A., Zislis, A., Sury-Barot, D., **Ben-Shachar, M.** & Gracco, V. (2020). Microstructural differences in dorsal and cerebellar tracts of adults with developmental stuttering. Submitted to the Society for Neurobiology of Language, Philadelphia, USA.

- Agmon, G., Har-Shai, P., **Ben-Shachar, M.** & Zion-Golumbic, E. (2020). Neural networks for attention to speech: Mapping distributed and selective attention onto the brain. Poster presented in ISCOP 2020, Acre, Israel.

- Bihovski, A., **Ben-Shachar, M.**, Meir, N. (2020). Efficacy of treatment in L1 and L2 in Russian/Hebrew bilingual patients with aphasia. Poster presented at the 10th Meeting on communication disorders in multilingual and multicultural populations, Hadassah College Jerusalem.
- Yablonski, M. and **Ben-Shachar, M.** (2019). Morphological sensitivity is associated with ventral white matter pathways across orthographies. Poster presentation at the Society for Neurobiology of Language, Helsinki, Finland.
- Agmon, G., Yablonski, M. and **Ben-Shachar, M.** (2019). Identifying the cognitive components of the morphological fluency task through neurocognitive correlations. Slam presentation and poster presentated at the Society for Neurobiology of Language, Helsinki, Finland.
- Yablonski, M., Menashe, B. and **Ben-Shachar, M.** (2019). Ventral-stream white matter pathways associated with performance on a morpheme-based production task. Poster presentation at the Organization for Human Brain Mapping, Rome, Italy.
- Jossinger, S., Kronfeld-Duenias, V., Zislis, A., Amir, O. and **Ben-Shachar, M.** (2019). Speech rate associations in cerebellar pathways of adults who stutter. Poster presentation at the Organization for Human Brain Mapping, Rome, Italy.
- Bruckert, L., Travis, K.E., Mezer, A., **Ben-Shachar, M.** and Feldman, H.M. (2018). Reading efficiency is associated with fractional anisotropy, but not with myelin content, in the superior cerebellar peduncles. Poster presentation at the *Society for Neurobiology of Language*, Quebec City, Canada. *Honorable mention
- Travis, K.E., Bruckert, L., Mezer, A., **Ben-Shachar, M.** and Feldman, H.M. (2018). More than Myelin: Interrogating white matter tissue properties underlying receptive and expressive language abilities in 8 year old children. Slide presentation at the *Society for Neurobiology of Language*, Quebec City, Canada. *Selected for Slide presentation.
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