

Uri Hasson PhD

Contact

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Academic employment

Associate Professor	Center for Mind/Brain Science University of Trento, Italy	2012-Present (leave: 2016-2018)
Program Director (CogNeuro program)	The National Science Foundation (NSF) , Arlington VA (USA)	2016-2018
Researcher (tenure track Assistant Professor)	Center for Mind/Brain Science University of Trento, Italy	2008-2012

Education

Postdoctoral Fellowship, Cognitive Neuroscience University of Chicago , Chicago, IL Advisor: Steven L Small, M.D., Ph.D.	2004-2008
Ph.D. Cognitive Psychology Princeton University , Princeton, NJ Advisors: Philip Johnson-Laird, Ph.D.. Sam Glucksberg, Ph.D.	1999-2004
B.A. Psychology Hebrew University of Jerusalem Israel , Jerusalem, Israel	1996-1999

Research interests

- Neuroimaging of language and higher-level cognition.
- Functional and neurobiological models of uncertainty and statistical regularity.
- Network models of brain structure and function.

Grants and awards

* Foundation for improvement of Trentino research (fVRT) Title: <u>QUOD: Quantification of ocular dominance for clinical use</u> Role: Principal Investigator; Total costs (direct): 24,000 Euro.	2021
* Cloudify Gateways 2020 Computing grant Title: <u>Machine Learning Research and Education on Neuroscience Data</u> Role: Co-PI. Total costs: \$26,000 in computing time.	2020-2021
* European Research Council Starting Grant (ERC-STG) Title: <u>How the brain codes the past to predict the future.</u>	2011-2015

Role: Principal Investigator; Total costs (direct & indirect): 970,000 Euro.

- * Social Sciences and Humanities Resource Council of Canada 2011-2013
Title: Statistical information processing mechanisms across auditory domains.
Role: Co-Principal Investigator; Total costs (direct & indirect): 74,885 CAD
- * Israeli Council for Higher Education 2008
Yigal Alon Fellowship for outstanding junior faculty.
Role: Principal Investigator; Declined by U. Hasson
- * Teragrid Institute: Medium Resource Allocation Grant 2008-2009
Using Distributed Computing Resources for Analysis of Neuroimaging Data.
Role: Co-Principal Investigator; 43,000 computing hours
- * NIDCD R33 grant 2006-2011
Bioinformatics infrastructure for large-scale studies of aphasia recovery.
Role: Software Architect (PI: Steven L. Small); \$616,000

Publications

1. Flechas, M. N., & Bao, W., Herbelot, A., & **Hasson, U.** (2023). Enhancing Interpretability using human similarity judgements to prune word embeddings. *BlacboxNLP (EMNLP2023)* <https://arxiv.org/abs/2310.10262>
2. Tarigopula, P., Fairhall, S., & Bavaresco, A., & Truong, N., & **Hasson, U.** (2023). Improved prediction of behavioral and neural similarity spaces using pruned DNNs. *Neural Networks*, 168: 89-104.
3. Koba, C., Notaro, G., Tamm, S., Nilsonne, G., & **Hasson, U.** (2021). Spontaneous eye movements during eyes-open rest reduce resting-state-network modularity by increasing visual-sensorimotor connectivity. *Network Neuroscience*. 5: 451–476.
4. Notaro, G., & **Hasson, U.** (2021). Semantically predictable input streams impede gaze-orientation to surprising locations. *Cortex*, 139. 222-239.
5. **Hasson, U.**, & Nusbaum, H. C. (2019). Emerging Opportunities for Advancing Cognitive Neuroscience. *Trends in Cognitive Sciences*. <https://doi.org/10.1016/j.tics.2019.02.007>.
6. Notaro, G., van Zoest, W., Altman, M., Melcher, D., & **Hasson, U.** (2018). Predictions as a window into learning: anticipatory fixation offsets carry more information about environmental statistics than stimulus-responses. *Journal of Vision*, 19.
7. **Hasson, U.**, Egidi, G., Marelli, M., & Willems, R. (2018). Grounding the neurobiology of language in first principles: the necessity of non-language-centric explanations for language comprehension. *Cognition*, 180. 135-157.
8. **Hasson, U.**, Iacovacci, J., Davis, B., Flanagan, R., Tagliazucchi E., Laufs, H., & Lacasa L. (2018). A combinatorial framework to quantify peak/pit asymmetries in complex dynamics. *Scientific Reports*, 8.
9. Nastase, S. A., Davis, B., & **Hasson, U.** (2018). Cross-modal and non-monotonic representations of statistical regularity are encoded in local neural response patterns. *NeuroImage*, 173. 509-517.
10. Iacovella, V., Faes, L., & **Hasson, U.** (2018). Task-induced deactivation in diverse brain systems correlates with interindividual differences in distinct autonomic indices. *Neuropsychologia*, 113. 29-42.
11. Zacà, D., **Hasson, U.**, Minati, L., & Jovicich, J. (2018). A method for retrospective estimation of natural head movement during structural MRI. *J. Magn. Reson. Imaging*, in press.
12. Davis, B., & **Hasson, U.** (2018). Predictability of what or where reduces brain activity, but a bottleneck occurs when both are predictable. *NeuroImage*, 167. 224-236.
13. Andric, M., Davis, B., & **Hasson, U.** (2017). Visual cortex signals a mismatch between regularity of auditory and visual streams. *NeuroImage*, 157. 648-659.
14. Atilgan, H., Collignon, O., & **Hasson, U.** (2017). Structural neuroplasticity of the superior temporal plane in early and late blindness. *Brain & Language*.
15. **Hasson, U.** (2017). The neurobiology of uncertainty: implications for statistical learning. *Philosophical Transactions of the Royal Society [B]*, 372. DOI: 10.1098/rstb.2016.0048.
16. Andric, M., Goldin-Meadon, S., Small, S. L., & **Hasson, U.** (2016). Repeated movie viewings produce similar

- local activity patterns but different network configurations. *NeuroImage*, 142, 613-627.
17. Davis, B., & **Hasson, U.** (2016). Predictability of what or where reduces brain activity, but a bottleneck occurs when both are predictable. *NeuroImage*.
 18. Tremblay, P., Deschamps, I., Baroni, M., & **Hasson, U.** (2016). Neural sensitivity to syllable frequency and mutual information in speech perception and production. *NeuroImage*, 136, 106-121.
 19. Cashdollar, N., Ruhnau, P., Weisz, N., & **Hasson, U.** (2016). The role of working memory in the probabilistic inference of future sensory events. *Cerebral Cortex*.
 20. Deschamps, I., **Hasson, U.**, & Tremblay, P. (2016). The structural correlates of statistical information processing during speech perception. *PLOS One*, 11(2), e0149375
 21. Davis, B., Jovicich, J., Laufs, H., Tagliazuchi, E., & **Hasson, U.** (2016). Dynamics in BOLD amplitude variance asymmetry characterize progression to deep sleep. *NeuroImage*, 130, 293-305.
 22. Hartzell, F. H., Davis, B., Melcher, D., Miceli, G., Jovicich, J., Nath, T., Singh, N. C., & **Hasson, U.** (2016). Brains of verbal memory specialists show anatomical differences in language, memory and visual systems. *NeuroImage*, 131, 181-192.
 23. **Hasson, U.**, Andric, M., Atilgan, H., & Collignon, O. (2016). Congenital blindness is associated with large-scale organization of anatomical networks. *NeuroImage*, 128, 362-372.
 24. Andric, M., & **Hasson, U.** (2015). Global features of functional brain networks change with contextual disorder. *NeuroImage*, 117, 103-113.
 25. Nastase, S., Iacovella, V., Davis, B., & **Hasson, U.** (2015). Connectivity in the human brain dissociates entropy and complexity of auditory inputs. *NeuroImage*, 108, 292-300.
 26. Hartzell, J. F., Tobia, M. J., Cashdollar, N. M., Davis, B., & **Hasson, U.** (2015). Differential lateralization of hippocampal connectivity reflects features of recent context and ongoing demands: An examination of immediate post-task activity. *Human Brain Mapping*, 36, 519-537.
 27. **Hasson, U.**, Llano, D., Miceli, G., & Dick, A. S. (2014). Does it talk the talk? On the role of basal ganglia in emotive speech processing. *Behavioral and Brain Sciences (Commentary)*, 37, 556-557.
 28. Davis, B., Jovicich, J., Iacovella, V., & **Hasson, U.** (2014). Functional and developmental significance of amplitude variance asymmetry in the BOLD resting state signal. *Cerebral Cortex*, 24, 1332-1350.
 29. Nastase, S., Iacovella, V., & **Hasson, U.** (2014). Uncertainty in visual and auditory series is coded by modality-general and modality-specific neural systems. *Human Brain Mapping*, 35, 1111-1128.
 30. Tremblay, P., Baroni, M., & **Hasson, U.** (2013). Processing of speech and non-speech sounds in the supratemporal plane: auditory input preference does not predict sensitivity to statistical structure. *NeuroImage*, 66, 318-332.
 31. Tobia, M., Iacovella, V., Davis, B., & **Hasson, U.** (2012). Neural systems mediating recognition of changes in statistical regularities. *NeuroImage*, 63, 1730-1742.
 32. Tobia, M., Iacovella, V., & **Hasson, U.** (2012). Multiple sensitivity profiles to diversity and transition structure in non-stationary input. *NeuroImage*, 60, 991-1005.
 33. Iacovella, V., & **Hasson, U.** (2011). The relationship between BOLD signal and autonomic nervous system functions: Implications for processing of "physiological noise". *Magnetic Resonance Imaging*, 29, 1338-1345.
 34. Cooper, E. A., **Hasson, U.**, & Small, S. S. (2011). Interpretation-mediated changes in neural activity during language comprehension. *NeuroImage*, 55, 1314-1323.
 35. Lin, P., **Hasson, U.**, Jovicich, J., & Robinson, S. (2011). A neuronal basis for task-negative responses in the human brain. *Cerebral Cortex*, 21, 821-830.
 36. Solodkin, A., **Hasson, U.**, Siugzdaite, R., Schiel, M., Chen, E.E., Kotter, R., & Small, S. L. (2010). Virtual Brain Transplantation (VBT): a method for accurate image registration and parcellation in large cortical stroke. *Archives Italiennes de Biologie*, 148, 219-241.
 37. Morris, B. J., & **Hasson, U.** (2010). Multiple sources of competence underlying the comprehension of inconsistencies: A developmental investigation. *JEP: Learning, Memory, and Cognition*, 36, 277-287.
 38. Dick, A., & **Hasson, U.** (2010). The role of outsourcing in neuroimaging analysis. *Trends in Cognitive Science*, 14, 2-4.
 39. **Hasson, U.**, Nusbaum, H. C., & Small, S. L. (2009). Task-dependent organization of brain regions active during rest. *Proceedings of the National Academy of Sciences*. (Track II), 106, 10841-10846.
 40. Dick, A., Goldin-Meadow, S., **Hasson, U.**, Skipper, J. I., & Small, S. L. (2009). Co-speech gestures influence neural responses in brain regions associated with semantic processing. *Human Brain Mapping*, 30, 3509-3526.
 41. Small, S. L., Wilde, M. J., Kenny, S., Andric, M., & **Hasson, U.** (2009). Database-managed grid-enabled analysis

of neuroimaging data: The CNARI framework. *International Journal of Psychophysiology*, 73, 62-72.

42. **Hasson, U.**, Skipper, J. I., Wilde, M. J., Nusbaum, H. C., & Small, S. L. (2008). Improving the analysis, storage and sharing of neuroimaging data using relational databases and distributed computing. *NeuroImage*, 39, 693-706.
43. **Hasson, U.**, Skipper, J. I., Nusbaum, H. C., & Small, S. L. (2007). Abstract coding of audiovisual speech: Beyond sensory representation. *Neuron*, 56, 1116-1126.
44. **Hasson, U.**, Nusbaum, H. C., & Small, S. L. (2007). Brain networks subserving the extraction of sentence information and its encoding to memory. *Cerebral Cortex*, 17, 2899-2913.
45. Stef-Praun, T., Clifford, B., Foster, I., **Hasson, U.**, Hategan, M., Small, S.L., Wilde, M., Zhao, Y. (2007). Accelerating medical research using the swift workflow system. *Stud Health Technol Inform*, 126, 207-216.
46. **Hasson, U.**, Nusbaum, H. C., & Small, S. L. (2006). Repetition suppression for spoken sentences and the effect of task demands. *Journal of Cognitive Neuroscience*, 18, 2013-2029.
47. **Hasson, U.**, & Glucksberg, S. (2006). Does negation entail affirmation? The case of negated metaphors. *Journal of Pragmatics*, 38, 1015-1032.
48. **Hasson, U.**, Simmons, J. P., & Todorov, A. (2005). Believe it or not: On the possibility of suspending belief. *Psychological Science*, 16, 566-571.
49. Estes, Z., & **Hasson, U.** (2004). The importance of being nonalignable: Structural alignment in the judgment of similarity and difference. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 30, 1082-1092.
50. Johnson-Laird, P. N., & **Hasson, U.** (2003). Counterexamples in sentential reasoning. *Memory and Cognition*, 31, 1105-1113.

Book chapters & encyclopedia entries

1. **Hasson, U.**, & Tremblay, P. (2016). Neurobiology of auditory statistical information processing. In G. Hicock & S. L. Small (Eds.), *Neurobiology of Language*. Elsevier.
2. **Hasson, U.**, & Egidi, G. (2015). What are naturalistic comprehension paradigms teaching us about language? In R. L. Willems (Ed.), *Cognitive Neuroscience of Natural Language Use*. Cambridge University Press.
3. **Hasson, U.**, & Small, S. L. (2011). Neurobiology of semantics. In P. C. Hogan (Ed.), *The Cambridge Encyclopedia of the Language Sciences*. Cambridge University Press.
4. **Hasson, U.**, & Small, S. L. (2008). fMRI of language. In B. Stemmer & H. A. Whitaker (Eds.), *Handbook of the Neuroscience of Language*. Elsevier.
5. **Hasson, U.**, & Giora, R. (2007). Empirical methods for studying interpretation. In M. Gonzalez-Marquez, S. Coulson, & M. Spivey (Eds.), *Methods in Cognitive Linguistics*. John Benjamins.

Books and Patents

1. **Hasson, U.**, No! The Psychology of Negation. Book under contract to be published at MIT Press.
2. Notaro, G., & **Hasson, U.** System and Apparatus for quantifying ocular dominance. Italian Patent IT202000022120 19/Jan/2023.
3. Hasson, U, Notaro, G, Eperon, A.C.L, Sartorato, N, Minati, L. Metodo e mezzi per la produzione di sequenze a livelli richiesti di interessantezza . Italian Patent IT102021000032504 08/Jan/2024.

Invited lectures and presentations

1. 2018 (April). Invited Lecture. *Spinozan belief symposium*. Hamline University, St. Paul, MN.2016 (June). Invited Lecture. *CNRS/Mastadons Interdisciplinary Workshop on Time Series Analysis*. Paris, France.
2. 2015 (June). Invited Discussant. *Workshop with Edward Singerland*. Ca'Foscari University. Venice, Italy.
3. 2015 (September). Invited lecture, *Science of Aphasia* conference, Aveiro, Portugal.
4. 2015 (September). Invited lecture, *Mind & Brain* workshop. University of Helsinki, Finland.
5. 2015 (September). Lecture in symposium on neurobiology of language, *EuroAsianPacific Joint Conference on Cognitive Science* conference. University of Torino, Italy.
6. 2013 (January). Invited lecture, *Winter school in nonlinear systems*. U.C San Diego, California.
7. 2012 (November) Invited talk, *Wisdom workshop*. University of Chicago, Chicago IL.

8. 2011 (November). Italian-Israeli Neuroscience Conference, Inter-Disciplinary Center, Herzeliya Israel.
9. 2008 (April). Center for Cognitive Science. The Ohio State University, Columbus, OH.
10. 2008 (March). Center for Mind and Brain Sciences. University of Trento, Trento, Italy.
11. 2008 (February). Department of Psychology. Harvard University, Boston, MA.
12. 2008 (February). Department of Psychology. The Hebrew University, Jerusalem, Israel.
13. 2008 (February). NIH Scientific and Statistical Computing Core, Bethesda, MD.
14. 2008 (January). Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands.
15. 2008 (January). Language group. Wellcome Trust Centre for Neuroimaging, London, UK.
16. 2008 (January). The Center for Brain and Behavior Research. University of Haifa, Haifa, Israel.
17. 2008 (January). Department of Psychology. Bar-Ilan University, Ramat-Gan, Israel.
18. 2004 (January). Interdisciplinary Colloquium. Tel Aviv University, Tel Aviv, Israel. Nastase, S., Davis, B.,

Peer-reviewed conference proceedings

1. Truong, N., Bavaresco, A., & **Hasson, U.** (2023). The Impact of Rarely-firing Nodes in Neural Networks on Representational Geometry and Predictions of Human Similarity Judgments *Proceedings paper in the Cognitive Computational Neuroscience Conference (CCN2023)*. Oxford, UK 24-27/8/2023. [10.32470/CCN.2023.1505-0].
2. Nastase, S., Davis, B., Halchenko, Y. O., & **Hasson, U.** (2016). Cross-modal searchlight classification: Methodological challenges and recommended solutions. *Proceedings paper in the 2016 International Workshop on Pattern Recognition in Neuroimaging (PRNI)*. Trento, Italy.
3. Iacovella, V., & **Hasson, U.** (2014). Magnitude of task-induced deactivation of insula and anterior cingulate cortex is related to inter-individual differences in RMSSD. Proceedings of the 8th conference of the European Study Group on Cardiovascular Oscillations (ESGCO2014). Trentino, Italy. doi: 10.1109/ESGCO.2014.6847565 [oral presentation]
4. Vega-Pons, S., Avesani, P., Andric, M., & **Hasson, U.** (2014). Classification of inter-subject fMRI data based on graph kernels. *2014 International Workshop on Pattern Recognition in Neuroimaging (PRNI)*. Tübingen, Germany. doi: 10.1109/PRNI.2014.6858549. [oral presentation]
5. Zaca, D., **Hasson, U.**, Davis, B., De Pisapia, N., & Jovicich, J. (2014). Presence of AVA in High Frequency Oscillations of the Perfusion fMRI Resting State Signal. *14th annual meeting of ISMRM*, Milano, Italy.
6. Iacovella, V., & **Hasson, U.** (2012). Directional relations between BOLD signal and autonomic activity indices are identifiable with fast-TR fMRI. *3rd Biennial conference on resting state brain connectivity*. Magdeburg, Germany. [oral presentation]
7. Altman, M., Melcher, D., & **Hasson, U.** (2011). Entropy influence on spatial and category prediction. *Proceedings of the 16th European Conference on Eye Movements*. Marseille. [oral presentation]
8. Egidi, G., & **Hasson, U.** (2009). The role of knowledge in anchoring. In N. Taatgen and H. van Rijn (Eds.). *Proceedings of the 31st Annual Conference of the Cognitive Science Society*, p. 242-247. Mahwah, NJ: Erlbaum. [oral presentation]
9. **Hasson, U.**, Andric, M., Kenny, S., Wilde, M. J., & Small, S. L. (2008). An architecture for GRID-based analysis of Neuroimaging data using relational databases and the SWIFT workflow engine. *Proceedings of Neuroinformatics 2008*. doi: 10.3389/conf.neuro.11.2008.01.118
10. **Hasson, U.**, Walsh, C. R., & Johnson-Laird, P. N. (2005). What underlies the assessment of conditionals? In B. G. Bara, L. Barsalou & M. Bucciarelli (Eds.) *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, p. 911-916. Mahwah, NJ: Erlbaum.
11. **Hasson, U.**, & Goodwin, G. (2003). Why does similarity correlate with inductive strength? In R. Alterman & D. Kirsh (Eds.), *Proceedings of the 25th Annual Conference of the Cognitive Science Society*, p. 522-527. Mahwah, NJ: Erlbaum.
12. **Hasson, U.**, & Johnson-Laird, P. N. (2003). Why believability cannot explain belief revision. In R. Alterman & D. Kirsh (Eds.), *Proceedings of the 25th Annual Conference of the Cognitive Science Society*, p. 516-521. Mahwah, NJ: Erlbaum. [oral presentation]
13. **Hasson, U.**, & Sloutsky, V. (2002). Similarity and difference judgments under perceptual and non-perceptual conditions. In W. Gray & C. Schunn (Eds.), *Proceedings of the 24th Annual Conference of the Cognitive Science Society*, p. 429-434. Mahwah, NJ: Erlbaum.
14. **Hasson, U.** (2002). Conceptualizing metaphors and similes. In A. Hougaard & S. N. Lund (Eds.), *Odense*

Conference presentations

1. Zaca, D., **Hasson, U.**, & Jovicich, J. (2016). Natural head motion effects on anatomical covariance networks. Poster presented at the 5th Resting State Brain connectivity workshop. Vienna, Austria.
2. Davis, B., & **Hasson, U.** (2016). Presentation rate is a constraint on neurobiological theories of sensitivity to regularity. Poster presented at the 8th annual meeting of the Society for the Neurobiology of Language. London, UK.
3. Zaca, D., **Hasson, U.**, & Jovicich, J. (2016). Entropy and average edge strength for retrospective head motion estimation on MR T1 weighted images. Poster presented at the 22nd Annual meeting of the organization for Human Brain Mapping, Seattle, WA.
4. **Hasson, U.** (2015). Learning the statistics of uncertainty: a neurobiological perspective. **Oral presentation** at Interdisciplinary advances in statistical learning workshop. San Sebastian, Spain.
5. Davis, B., & Hasson, U. (2015). Sensitivity to visual and auditory disorder in modality-specific sensory cortex is reduced in a multi-modal audio-visual context. **Oral presentation** at Interdisciplinary advances in statistical learning workshop. San Sebastian, Spain.
6. Davis, B., Altman, M., Melcher, D., & **Hasson, U.** (2015). Statistically-induced predictability of the category and/or location of visual stimuli results in wide-spread activity reduction in partially overlapping brain regions. Poster presented at the 20th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
7. **Hasson, U.** (2014). Why we should reconsider the current interpretive framework for the neurobiological basis of language comprehension. **Symposium oral presentation** at the 6th annual meeting of the Society for the Neurobiology of Language. Amsterdam, The Netherlands.
8. **Hasson, U.**, Tremblay, P., & Deschamps, I. (2014). Caudal-rostral and lateral-medial organization of subregions of the supratemporal plane revealed by cortical-thickness correlation patterns. **Oral presentation** at the 6th annual meeting of the Society for the Neurobiology of Language. Amsterdam, The Netherlands.
9. Tremblay, P., Ouellet, C., Deschamps, I., Bilodeau-Mercure, M., & **Hasson, U.** (2014). Neural basis of syllable frequency effects in speech perception and production. Poster presented at the 6th annual meeting of the Society for the Neurobiology of Language. Amsterdam, The Netherlands.
10. Andric, M. & **Hasson, U.** (2014). Re-arrangement of functional networks when listening to auditory inputs with differing artificial grammars. Poster presented at the 6th annual meeting of the Society for the Neurobiology of Language. Amsterdam, The Netherlands.
11. Zacà D., **Hasson U.**, Davis B., De Pisapia N., Jovicich J. (2014). Presence of AVA in High Frequency Oscillations of the Perfusion fMRI Resting State Signal. 22nd ISMRM. Milan, Italy.
12. Andric, M., & **Hasson, U.** (2013). Complex input creates complex networks. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
13. Cashdollar, N., & **Hasson, U.** (2013). Representing the statistical relationship of continuous visual inputs using oscillatory neural activity. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
14. Davis, B., Jovicich, J., Laufs, H., Tagliazucchi, E., & Hasson, U. (2013). Dynamics in BOLD amplitude variance asymmetry characterize progression to deep sleep. Poster presented at the 19th Annual meeting of the organization for Human Brain Mapping, Seattle, WA.
15. Hartzell, J., Davis, B., Melcher, D., Miceli, G., Nath, T., Jovicich, J., Chatterjee, S., & **Hasson, U.** (2013). Recitation-related structural changes in the brains of Vedic Sanskrit Pandits. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
16. Small, S.L., Yang, J., **Hasson, U.**, Cooper, E. (2013). Influence of selective attention of story comprehension. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
17. Davis, B., Jovicich, J., Iacovella, V., & **Hasson, U.** (2013). Amplitude Variance Asymmetry: Identifying nonlinear signatures in the BOLD resting state signal. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
18. Altman, M., Melcher, D., & Hasson, U. (2013). Predicting multiple stimulus features is associated with processing costs. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
19. Nastase, S., Iacovella, V., & **Hasson, U.** (2012). Statistical constraints in the auditory domain impact ACC and hippocampal connectivity patterns. Poster presented at Segregation and Integration in Music and Language (SIMAL),

Tubingen, Germany.

20. Iacovella, V. & Hasson, U. (2012). What is the relationship between BOLD and autonomic activity? A fastTR FMRI study. **Oral presentation** at the International school on magnetic resonance and brain function" 10th Workshop: Brain function investigation by magnetic resonance, electrophysiology and molecular imaging; Erice (TP, Italy).
21. Tobia, M., Iacovella, V., & Hasson, U. (2011). Hippocampus activation correlated with complexity of recent auditory stimulation. Poster presented at the 18th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
22. Nastase, S., Iacovella, V., & Hasson, U. (2011). Modality-general and modality-specific systems for the coding of order. Poster presented at the 18th annual meeting of the Cognitive Neuroscience Society, San Francisco, USA.
23. Nastase, S., Iacovella, V., & Hasson, U. (2010). Does the coding of order depend on language systems? Poster presented at the Neurobiology of Language Conference, San Diego, USA.
24. Iacovella, V., & Hasson, U. (2010). The impact of physiological noise correction on the quality of FMRI data: developing a gold standard. **Oral presentation** at the Italian Chapter ISMRM meeting, Milan, Italy.
25. Iacovella, V. & Hasson, U. (2010). The impact of physiological noise correction on the quality of fMRI data: standards for assessment. Poster presented at the Organization for Human Brain Mapping 16th Annual Meeting. Barcelona, Spain.
26. Iacovella, V. & Hasson, U. (2010). Physiological noise removal: interpretive problems and steps towards establishing validity criteria. **Oral presentation** at the International school on magnetic resonance and brain function" 8th Workshop: Brain function investigation by magnetic resonance, electrophysiology and molecular imaging; Erice, Italy.
27. Andric, M., Hasson, U., & Small, S. L. (2008). Neuroimaging analysis and visualization tools for remote collaboration. Poster Presented at the Annual Meeting of The Organization for Human Brain Mapping, Melbourne, Australia.
28. Hasson, U. (2007). Relating comprehension and belief: The role of sentence informativeness. **Oral presentation** at the 48th Annual Meeting of the Psychonomic Society, Long Beach.
29. Cooper, E. A., Hasson, U., & Small, S. L. (2007). Dimensions of discourse: Brain activation during the processing of temporal, spatial, and actional information in narrative. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY.
30. Morris, B. J., & Hasson, U. (2007). Young children process inconsistencies between objects before relations. Poster presented at the 2007 Society for Research in Child Development Conference. Boston, MA
31. Hasson, U., Skipper, J. I., Nusbaum, H. C., & Small, S. L. (2006). The recent audiovisual past affects speech processing via modulation of neural activity in auditory and visual regions. **Oral presentation** at The Architecture of Language, Pisa, Italy.
32. Hasson, U., Skipper, J. I., Nusbaum, H. C., & Small, S. L. (2006). How is audiovisual speech processing affected by the recent audiovisual past? An fMRI study. Poster presented at the Tenth International Conference on Cognitive and Neural Systems, Boston.
33. Hasson, U., Nusbaum, H. C., & Small, S. L. (2006). fMRI reveals a bilateral fronto-temporal network implicated in the integration of discourse contents and their subsequent memory. Poster presented at the Annual Meeting of The Organization for Human Brain Mapping, Florence, Italy.
34. Wier, H. Y., Hasson, U., Skipper, J. I., Raja, A., & Small, S. L. (2006). Virtual Brain Transplantation: An approach for accurate registration and parcellation of brain-injured patients. Poster presented at the Annual Meeting of The Organization for Human Brain Mapping, Florence, Italy.
35. Hasson, U., Nusbaum, H. C., & Small, S. L. (2006). The comprehension of sentences in discourse context. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
36. Morris, B. J., Hasson, U., Steingold, G., Kaid, B. (2005). Preschool Children's Understanding of Contradictions. Poster presented at the 2005 Society for Research in Child Development Conference. Atlanta, GA.
37. Hasson, U., Goodwin, G., & Walsh, C. (2004). The role of syntactic mood and argument form in the evaluation of conditional inductions. **Oral presentation** at the Eastern Psychological Association Conference. Washington, DC.
38. Hasson, U. (2003). The role of negation in language and reasoning. Paper presented at the Empirical Methods in Cognitive Linguistics Workshop (EMCL), Cornell University, Ithaca, NY.
39. Hasson, U., & Glucksberg, S. (2002). When negation involves affirmation. **Oral presentation** at the 43rd Meeting of the Psychonomic Society. Kansas City, MO.
40. Hasson, U., & Glucksberg, S. (2002). Implicature and presupposition in deictic verbs of motion: Come and Go. Poster presented at the 12th Annual Meeting of the Society for Text and Discourse. Chicago, IL.
41. Hasson, U., Glucksberg, S., & Estes, Z. (2001). Metaphors communicate more effectively than similes. Poster presented at the 42nd Meeting of the Psychonomic Society. Orlando, FL.

Reviewing & editorial experience

<i>Brain & Language</i>	Special issue editor (2012)
<i>Neurobiology of Language</i>	<i>Editorial Board</i>

Conference organization

International Convention of Psychological Science Program Committee member.	Vienna 2017
Architectures and Mechanisms for Language Processing (AMLaP) Local organizing committee.	Riva del Garda 2012
2 nd Rovereto Autumn School on Methods in Language Comprehension Co-initiator and member of organizing committee.	Rovereto 2014
Rovereto Autumn School on Methods in Language Comprehension Co-initiator and member of organizing committee.	Rovereto 2013

Ad hoc reviewing for journals and conferences

Journal of Neuroscience
Annals of the New York Academy of Sciences
Cerebral Cortex
NeuroImage
Human Brain Mapping
Social, Cognitive and Affective Neuroscience
Journal of Experimental Psychology: Learning, Memory, and Cognition
Brain and Language
Cognitive Linguistics
Psychological Bulletin & Review
European Journal of Cognitive Psychology
Discourse Processes
Cortex
Cognitive Research: Principles and Implications
Journal of Pragmatics
Pragmatics & Cognition
Brain Imaging and Behavior
AMLAP conferences
Conference of the Cognitive Science Society
Conference of the Society for the Neurobiology of Language

Ad hoc grant reviewing

National Science Foundation grants
United States-Israel Bi-national Science Foundation (BSF) grants
Israeli Science Foundation (ISF)
Netherlands Organization for Scientific Research
Hong-Kong Research Foundation
Gov. of Canada Discovery Grants Program
Gov. of Canada Natural Sciences and Engineering Research Council (NSERC)

PH.D. students

Vittorio Iacovella	Non-artifactual causal relationship between physiological parameters and the BOLD signal	2009-2013
James Hartzell	The Neurocorrelates of Vedic Recitation	2011-2015
Magda Altman	ABD	2011-2015
Ben Davis		2015-2018
Nhut Truong		2021-

Post-doctoral fellows

Krishna Miyapuram	2011-2012	Predictability of semantic categories in statistically regular context	Tenure-track faculty at IIT Gadhingar, India
Michael Tobia	2010-2012	Coding of regularities in the auditory domain	Teacher-Postdoc at Wake Forest University
Nathan Cashdollar	2011-2014	MEG signatures of prediction and anticipation	Post-doc at CIMeC, UNITN
Pascale Tremblay	2011-2012	Coding of regularities in the auditory domain	Tenure-track faculty at university of Lavale, Canada
Michael Andric	2012-2016	Network models of brain structure and function	Between jobs
Giuseppe Notaro	2016 - 2021	Eye tracking signatures of statistical learning	CEO, visionbalancetech

M.A theses advised

Magda Altman	2010	Entropy influence on spatial and category prediction
James Hartzell	2010	Hippocampal functional connectivity during rest
Rocco Marchitello	2012	Small-world properties of the default mode network during resting state and passive auditory stimuli
Samuel Nastase	2012	Uncertainty in visual and auditory series is coded by modality-specific neural systems
Hicret Atilgan	2015	Morphometric Feature Analysis of Supratemporal Plane in Blind
Ben Davis	2015	Amplitude Variance Asymmetry
Cemal Koba	2018	Eye movements' impact on Resting State activity
Priya Miyapuram	2021	Network pruning as a method for improving alignment of representational geometries between DNN and Humans
Ayşe Aybüke Durmaz	2021	Human Decision Optimality under Nonequilibrium Fluctuations
Anna Bavaresco	2022	Modeling human representational space using weighted pruning of deep neural networks and similarity-based soft-labels
Allison Keith	2023	Effects of Language Typology on Second Language Writing Complexity
Wanqian Bao	2023	Semantic Features Among Congenitally Blind And Sighted Individuals: A Computational Method
Natalia Fleichas	2023	Human Similarity Judgements and the Geometry of Word Embeddings

University service

- Vice-director of CIMeC 2019-2022
- Member of CIMeC PHD program 5-member executive committee 2014-2016, 2019-2020
- Member of university-wide committee for international integration 2016
- Head of 3-person admission committee for CIMeC's PHD program 2015, 2016
- Member of CIMeC's M.A program oversight committee 2015, 2016

- Member of admissions committee to university honor's college