

Curriculum Vitae

Moshe Bar, Ph.D.

Martinos Center for Biomedical Imaging
Massachusetts General Hospital
Departments of Psychiatry and Radiology
Harvard Medical School

149 Thirteenth Street Room 2301
Charlestown, MA 02129
Tel: (617) 726-7467
Fax: (617) 726-7422

bar@nmr.mgh.harvard.edu
<http://barlab.mgh.harvard.edu>

Academic and Professional History

- 2009 - Associate Professor in Psychiatry
Harvard Medical School, Boston, MA
- 2009 - Associate Professor in Psychiatry
Massachusetts General Hospital, Boston, MA
- 2007 - Associate Professor in Radiology
Harvard Medical School
Massachusetts General Hospital, Boston, MA
- 2007 - Associate Neuroscientist
Department of Radiology
Massachusetts General Hospital, Boston, MA
- 2005 - Affiliated Faculty of the Harvard-MIT Division of Health Sciences and
Technology, Boston, MA
- 2009 - 2011 Assistant Professor in Psychiatry,
Harvard Medical School, Boston, MA
- 2002 - 2007 Assistant Professor in Radiology
Harvard Medical School, Boston, MA
- 2000 - 2001 Instructor in Radiology
Harvard Medical School, Boston, MA
- 2000 - 2009 Assistant Professor in Neuroscience
Massachusetts General Hospital, Boston, MA

- 1998 - 2001 Post-doctoral Research Fellow
Department of Psychology, Harvard University, Cambridge, MA and
Massachusetts General Hospital, Boston, MA
- 1994 - 1998 Ph.D. in Psychology, Cognitive Neuroscience Program
University of Southern California, Los Angeles, CA
Dissertation: *Characteristics and Cortical Localization of Subliminal Visual Priming*. Advisor: I. Biederman
- 1992 - 1994 M.Sc. Computer Science and Applied Mathematics
The Weizmann Institute of Science, Israel
- Dissertation: *Spatial Context in Recognition*. Advisor: S. Ullman
- 1988 - 1994 Israeli Air-Force
- 1984 - 1988 B.Sc. Electrical Engineering
Ben-Gurion University, Israel
Major: *Image processing and biomedical engineering*.

Awards and Honors

- 1994 - 1998 Research and Teaching Assistant, Department of Psychology, University of Southern California, Los Angeles, CA
- 1998 Cold Spring Harbor Laboratory. Course on the Structure, Function & Development of the Visual System
- 1998 *Outstanding Doctoral Thesis Award*, Department of Psychology, University of Southern California, Los Angeles, CA
- 1998 Summer Institute in Cognitive Neuroscience at Dartmouth College, NH
- 1998 - 2001 McDonnell-Pew Program in Cognitive Neuroscience Award
- 2002 - 2007 21st Century Science Initiative Award, McDonnell Foundation
- 2007 Dart Neuroscience Scholar, Marine Biological Laboratory, Woods Hole, MA
- 2008 Fellow, American Psychological Society, Division 3
- 2010- Lifetime Fellow, Society of Experimental Psychologists
- 2012 Hebb Award, International Neural Networks Society

Professional Memberships

- 1998 Society for Neuroscience
- 1999 American Association for the Advancement of Science
- 1999 American Psychological Society
- 1999 Cognitive Neuroscience Society
- 2000 American Psychological Association
- 2000 Human Brain Mapping Association
- 2000 Psychonomic Society
- 2001 Vision Sciences Society
- 2008 American Psychological Association – Division 3 Fellow

Teaching Experience

2010	Instructor, Visual Neuroscience, Harvard Summer School, Trento, Italy
2000 - 2003	Instructor, Department of Radiology, Harvard Medical School, Boston, MA
1994 - 1998	Teaching Assistant, Department of Psychology, University of Southern California, Los Angeles, CA - <i>Introduction to Psychology, Statistics I, Developmental Psychology, Cognitive Psychology, Behavioral Neuroscience</i>
1993 - 1994	Lecturer in Visual perception, The Academy of Arts, Tel-Aviv, Israel - <i>Camera Obscura</i>
1992 - 1993	Teacher, Department of Computer science, High School for the Gifted Hertzelia, Israel

Trainees

Currently supervising:

2011 - present	Robert Tennyson	Research Assistant
2011 - present	Matthew Panichello	Research Assistant
2011 - present	Tomer Livne	Postdoctoral Fellow
2010 - present	Eiran Harel	Postdoctoral Fellow
2010 - present	Olivia Cheung	Postdoctoral Fellow
2010 - present	Alex Milner	Graduate Student
2009 - present	Andrea Heberlein	Postdoctoral Fellow
2007 - present	Amitai Shenhav	Graduate Student

Past supervised:

2009 - 2011	Kathryn Devaney	Graduate Student at Boston University, Boston, MA
2007 - 2011	Kathrine Shepherd	Graduate Student at Kent State University, Kent, Ohio
2009 - 2011	Trang Nguyen	Undergraduate Student
2009 - 2011	Mona Tousian	Research Assistant
2008 - 2011	Maximilien Chaumon	Postdoctoral Fellow
2009 - 2010	Andreja Bubic	Faculty, University of Split, Split, Croatia
2009 - 2010	Kathrin Herbst	Graduate Student
2007 - 2009	Cibu Thomas	Postdoctoral Fellow at NIH, Washington, DC
2005 - 2009	Kestutis Kveraga	Faculty at MGH, Charlestown, MA
2009 - 2009	Meghan Frederico	Graduate Student
2009 - 2009	Will Jaffee	Graduate Student
2009 - 2009	Maya Rosen	Graduate Student at Boston University, Boston, MA
2009 - 2009	Pablina Roth	Graduate Student at Heidelberg University, Germany
2004 - 2009	Jasmine Boshyan	Research Assistant at MGH, Charlestown, MA
2003 - 2008	Elissa Aminoff	Postdoctoral Fellow at the UCSB, Santa Barbara, CA

2005 - 2008	Dana Carney	Faculty at the Columbia Business School, New York, NY
2003 - 2007	Mark J. Fenske	Assistant Professor at the University of Guelph, Ontario, Canada
2004 - 2007	Nurit Gronau	Assistant Professor at the Open University, Rananna, Israel
2005 - 2007	Malia Mason	Faculty at the Columbia Business School, New York, NY
2002 - 2007	Avniel Ghuman	Postdoctoral Fellow at the NIMH, Bethesda, MD
2004 - 2006	Maital Neta	Graduate Student at Dartmouth College, Hanover, NH
2002 - 2004	Karim Kassam	Faculty at Carnegie Mellon University, Pittsburg, PA
2003 - 2004	Irina Ostrovskaya	Graduate Student at MIT, Cambridge, MA
2002 - 2003	Heather Linz	Research Analyst at Metaworks, Inc. Cambridge, MA
2003 - 2003	Laure Zago	Faculty at CNRS CEA Universities Paris 5 and Caen, France
2001 - 2003	Annette Schmid	Research Fellow at Tufts University, Medford, MA

Invited Colloquia

- July 1996 Vision Science Laboratory, Harvard University, Cambridge, MA
- October 1996 Psychology Department, Stanford University, Stanford CA
- May 1998 Vision Psychophysics Laboratory, California Institute of Technology, Pasadena, CA
- March 1999 Max-Planck-Institute for Biological Cybernetics, Tübingen, Germany
- December 1999 Neural Computation Center, Hebrew University, Jerusalem, Israel
- January 2000 Department of Biomedical Engineering, Boston University, Boston, MA
- February 2001 Department of Psychology, Stanford University, Stanford, CA
- October 2001 Department of Psychology, Boston University, Boston, MA
- January 2002 Memory Disorders Research Center, Boston University School of Medicine, Boston, MA
- February 2002 Cognition, Brain and Behavior Seminar, Harvard University, Cambridge, MA
- February 2003 Massachusetts Institute of Technology Business School, Cambridge, MA
- May 2004 The Eight International Conference on Cognitive and Neural Systems, Boston, MA
- October 2004 Neuroscience Program, Brown University, Providence, RI
- November 2004 Social and Affective Neuroscience Seminar, Harvard University, Cambridge, MA
- January 2005 Computation and Neural Systems, California Institute of Technology, Pasadena, CA
- February 2005 Memory Disorders Research Center, Boston University School of Medicine, Boston, MA
- February 2005 Vision Science Lab Seminar Series, Harvard University, Cambridge, MA
- March 2005 CIMIT (Center for Integration of Medicine and Innovative Technology), Massachusetts General Hospital, Boston, MA

- March 2005 Institute for Cognitive and Brain Science Colloquia, University of California Berkeley, Berkeley, CA
- August 2005 European Conference on Visual Perception, A Coruña, Galicia, Spain
- November 2005 Partners Radiology Research Retreat, Boston, MA
- March 2006 Division of Neurosurgery and Neurobiology, Barrow Neurological Institute, Phoenix, AZ
- March 2006 Psychology Department Colloquium Series, University of Arizona, Tucson, AZ
- April 2006 Institute of Cognitive Neuroscience and Department of Psychology, University College, London, UK
- April 2006 Cognition and Brain Sciences Unit, Department of Experimental Psychology, University of Cambridge, UK
- July 2006 Biomedical Imaging and Analysis Series, MIT Computer Science and Artificial Intelligence Laboratory (CSAIL), Cambridge, MA
- November 2006 The 2nd Shanghai International Conference on Physiological Biophysics--Audition & Vision, Shanghai, China
- December 2006 The Weizmann Institute of Science, Department of Neurobiology, Rehovot, Israel
- April 2007 The Cognitive Neuroscience of Prospective Thought Symposia, Cognitive Neuroscience Society, San Francisco, CA
- May 2007 Medial Temporal Lobe Workshop, Boston University, Boston, MA
- August 2007 Marine Biology Laboratory, Woods Hole, MA
- September 2007 Institute for Psychiatric Research, Columbia University college of Physicians & Surgeons, New York, NY
- October 2007 International Conference on Computer Vision (ICCV), Rio de Janeiro, Brazil
- October 2007 Social Psychology, Harvard University, Boston, MA
- November 2007 Philosophy of Neuroscience, Boston University/MIT, Boston, MA
- March 2008 Psychology Department, University of Massachusetts, Amherst, MA
- April 2008 Satellite Symposium, Cognitive Neuroscience Society, San Francisco, CA
- May 2008 Vision Sciences Society Annual Meeting, Naples, FL
- May 2008 International Workshop on Object Recognition, Lake Como, Italy
- June 2008 Satellite Symposium, Human Brain Mapping, Melbourne, Australia
- July 2008 Symposium on New Concepts in Structural and Functional Neuroimaging, IBILI-Faculdade de Medicina, Coimbra, Portugal
- July 2008 XXIX International Congress of Psychology, Berlin, Germany
- September 2008 Psychology Department, Princeton Colloquium, Princeton, NJ
- December 2008 Distinguished Speakers in Behavioral and Brain Sciences Series, Cornell University, Ithaca, NY
- February 2009 NovoBrain Conference, Ruhr-University Bochum, Germany
- April 2009 Vision Science Society Annual Meeting, Naples, Florida
- May 2009 The Proactive Brain: An International Workshop, Harvard University, Cambridge, MA
- June 2009 Colloquium in Neuroscience and Psychology, University of Western Ontario, Canada
- August 2009 Cognitive Science Workshop, Groot Begijnhof University, Leuven, Belgium
- September 2009 Cognitive Brain and Behavior Colloquium, Department of Psychology, Harvard University, Cambridge, MA
- September 2009 Graduate Program Seminar Series, Department of Neuroscience, Brown University, Providence, RI
- October 2009 Knowledge and Performance in Perception Conference, Center for Interdisciplinary Research, Bielefeld, Germany
- October 2009 Philosophy of Cognition Colloquium, Ruhr University Bochum, Bochum, Germany

- October 2009 Perceptual Expertise Network Meeting, Pittsburgh, PA
- November 2009 Department of Psychology, Brandeis Colloquium, Waltham, MA
- November 2009 Wandering Minds and Brains Symposium, Psychonomic Society Meeting, Boston, MA
- January 2010 Alpine Brain Imaging Conference, Geneva, Switzerland
- March 2010 Visual Opinions in Mind and Brain, Graduate School of Design, Harvard University, Cambridge, MA
- May 2010 Object Recognition: Object and Scene Processing, Vision Sciences Society, Naples, FL
- May 2010 Fourteenth International Conference on Cognitive and Neural Systems, Boston University, Boston, MA
- May 2010 Biomarkers of Depression, Spring Series Grand Rounds, Department of Psychiatry at MGH, Boston, MA
- June 2010 Top-Down Modulation in Visual Processing, Organization for Human Brain Mapping, Barcelona, Spain
- September 2010 Neuroscience Colloquium, Washington University in St. Louis, St. Louis, MO
- October 2010 Neuropsychology Lecture Series, VA Boston Healthcare System, Boston, MA
- November 2010 Interdisciplinary Workshop on Society, Culture and Language at University of Plymouth, UK
- December 2010 Center for Depression, Anxiety, and Stress Research, McLean Hospital, Belmont, MA
- February 2011 Cognitive and Brain Science Series, Tufts University in Medford, MA
- June 2011 Symposium on Gist Perception, Association for Scientific Study of Consciousness, Kyoto, Japan
- September 2011 11th International Conference on Cognitive Science (ICON XI), Mallorca, Spain

Committee Work

- Director, Brain Mapping Colloquium series at MGH (1999-2001).
- Chair and Organizer for symposium: "Imaging Visual Object Representations: Let's Look The Controversy In The Eyes" at the Annual Meeting of the Cognitive Neuroscience Society, March 2001, New York. Speakers: R. Malach, J. Haxby, I. Gauthier, N. Kanwisher and M. Bar.
- Co-chairing a training program between the NMR Center at MGH and the Harvard Psychology Department.
- NYU Conte Advisory Board Member, NYU School of Medicine and Nathan Kline Institute.
- Permanent member of NIH study section, Cognition and Perception (2010-Present).

Manuscript and Grant Reviews

Ad Hoc Grant Reviewer:

- NIH
- United States-Israel Binational Science Foundation (BSF)
- The National Science Foundation (NSF)
- The Netherlands Computer Science Research Foundation (SION)
- The Wellcome Trust
- James S. McDonnell Foundation

Editorial Boards:

- 2009 - Behavioral and Brain Sciences
- 2010 - Frontiers in Perception Science

Ad Hoc Reviewer:

- 2000 - Brain Research
- 2001 - Canadian Journal of Experimental Psychology
- 1999 - Cerebral Cortex
- 1999 - Cognition
- 1999 - Cognitive, Affective, & Behavioral Neuroscience
- 2002 - Cognitive Brain Research
- 2002 - Cognitive Psychology
- 2001 - Human Brain Mapping
- 1999 - Journal of Cognitive Neuroscience
- 2000 - Journals of Experimental Psychology
- 2000 - Memory & Cognition
- 2002 - Journal of Neuroscience
- 2005 - Nature Neuroscience
- 2003 - Nature Reviews Neuroscience
- 2004 - Neural Computation
- 2000 - Neuroimage
- 2000 - Neuron
- 2000 - Neuropsychologia
- 1999 - Perception
- 1999 - Perception & Psychophysics
- 2006 - PLoS
- 2001 - Proceedings of The National Academy of Sciences
- 2001 - Psychological Science
- 1999 - Vision Research
- 2000 - Visual Cognition

Research Support

1. Active - NSF BCS-0842947, Moshe Bar (PI), 9/09-8/12, \$368,952. *Contextual Contribution in Brain and Cognition.*
2. Active - NIH 1R01 EY019477-01A1, Moshe Bar (PI), 7/09-6/11, \$715,920. *Prefrontal Cortex Top-Down Contribution to Visual Object Recognition.*
3. Active - DARPA, Moshe Bar (PI on subcontract with Teledyne), 6/10-3/14, \$1,377,168. *Top-Down Contribution to Visual Recognition.*
4. Active - NIH R01 MH084940, Moshe Bar (PI), 4/10-3/15, \$800,880. *A Cognitive Neuroscience Framework for Understanding and Treating Mood Disorders.*
5. Completed - NIH P01AT002048-06, Moshe Bar (PI on subcontract with B. Rosen), 6/09-5/11, \$205,136. *Neuroimaging Acupuncture Effects on Human Brain Activity.*
6. Completed - NIH R01 NS057500-01, Moshe Bar (PI on subcontract with S. Ahlfors), 7/07-6/10, \$742,264. *Inferring Cortical Feedforward and Feedback Processes with Human Neuroimaging.*

7. Completed - NIH R01 MH060901-07, Moshe Bar (PI on subcontract with D.L. Schacter), 4/05-3/10, \$446,956. *Event Related Neuroimaging of Human Memory Formation.*
8. Completed - NIH R01 NS50615, Moshe Bar (PI), 9/04-5/10, \$1,865,831. *Contextual Predictions Facilitate Visual Cognition.*
9. Completed - NIH R01 NS44319, Moshe Bar (PI), 8/02-7/07, \$950,000. *Top-Down Cortical Facilitation During Visual Object Recognition.*
10. Completed - James S. McDonnell Foundation, 21st Century Science Initiative Award # 21002039, Moshe Bar (PI), 1/02-1/07, \$454,965. *Revealing the Perceptual and Neural Mechanisms of First Impressions.*

Publications

Original Reports (all published in peer-reviewed journals only):

1. Bar, M., Ullman, S. (1996). Spatial context in recognition. *Perception*, 25, 343-52.
2. Bar, M., Biederman, I. (1998). Subliminal visual priming. *Psychological Science*, 9, 464-9.
3. Biederman, I., Bar, M. (1999). One-shot viewpoint invariance in matching novel objects. *Vision Research*, 39, 2885-99.
4. Bar, M., Biederman, I. (1999). Localizing the cortical region mediating visual awareness of object identity. *Proceedings of the National Academy of Sciences*, 96, 1790-3.
5. Biederman, I., Subramaniam, S., Bar, M., Kaloscai, P., Fiser, J. (1999). Subordinate-level object classification reexamined. *Psychological Research*, 62, 131-53.
6. Biederman, I., Bar, M. (2000). Differing views on views: Response to Hayward and Tarr. *Vision Research*, 40, 3901-5.
7. Vogels, R., Biederman, I., Bar, M., Lorincz, A. (2001). Inferior temporal neurons show greater sensitivity to non-accidental than metric shape differences. *Journal of Cognitive Neuroscience*, 13(4), 444-53.
8. Bar, M., Tootell, R., Schacter, D.L., Greve, D., Fischl, B., Mendola, J., Rosen, B., Dale, A.M. (2001). Cortical mechanisms of explicit visual object recognition. *Neuron*, 29, 529-35.
9. Bar, M. (2001). Viewpoint dependency in visual object recognition does not necessarily imply viewer-centered representation. *Journal of Cognitive Neuroscience*, 13(6), 793-9.
10. Bar, M. (2003). A cortical mechanism for triggering top-down facilitation in visual object recognition. *Journal of Cognitive Neuroscience*, 15, 600-9.
11. Bar, M., Aminoff, E. (2003). Cortical analysis of visual context. *Neuron*, 38, 347-58.
12. Bar, M. (2004). Visual objects in context. *Nature Reviews Neuroscience*, 5, 617-29.

13. Zago, L., Fenske, M.J., Aminoff, E., Bar, M. (2005). The rise and fall of priming: How visual exposure shapes cortical representations of objects. *Cerebral Cortex*, 15, 1655-65.
14. Fenske, M.J., Aminoff E., Gronau N.. & Bar, M. (2006). Top-down facilitation of visual object recognition: Object-based and context-based contributions. *Progress in Brain Research*, 155, 3-21.
15. Bar, M., Linz, H., Neta, M. (2006). Very first impressions. *Emotion*, 6(2), 269-78.
16. Bar, M., Neta, M. (2006). Humans prefer curved visual objects. *Psychological Science*, 17(8), 645-48.
17. Ghuman, A., Bar, M. (2006). The influence of non-remembered affective associations on preference. *Emotion*, 6(2), 215-23.
18. Bar, M., Kassam, K., Ghuman, A., Boshyan, J., Dale, A., Hämäläinen, M., Marinkovic, K., Schacter, D.L., Rosen, B., and Halgren, E. (2006). Top-down facilitation of visual recognition. *Proceedings of the National Academy of Sciences*, 103(2), 449-54.
19. Aminoff, E., Gronau, N., and Bar, M. (2007). The parahippocampal cortex mediates spatial and non-spatial associations. *Cerebral Cortex*, 27, 1493-1503.
20. Bar, M. (2007). The proactive brain: Using analogies and associations to generate predictions. *Trends in Cognitive Sciences*, 11(7), 280-289.
21. Bar, M., Aminoff, E., Mason, M., and Fenske, M. (2007). The units of thought. *Hippocampus*, 17(6), 420-428.
22. Bar, M., and Neta, M. (2007). Visual elements of subjective preference modulate amygdala activation. *Neuropsychologia*, 45, 2191-2200.
23. Kveraga, K., Ghuman, A.S., and Bar, M. (2007). Top-down predictions in the cognitive brain. *Brain and Cognition*, 65, 145-168.
24. Bar, M. (2007). The continuum of “looking forward,” and paradoxical requirements from memory. *Behavioral and Brain Sciences*, 30(3), 315-316.
25. Kveraga, K., Boshyan, J., and Bar, M. (2007). Magnocellular projections as the trigger of top-down facilitation in recognition. *Journal of Neuroscience*, 27, 13232-13240.
26. Gronau, N., Neta, M., and Bar, M. (2008). Integrated contextual representation for objects' identities and their locations. *Journal of Cognitive Neuroscience*, 20(3), 371-388.
27. Bar, M., Aminoff, E., and Ishai, A. (2008). Famous Faces activate contextual associations in the parahippocampal cortex. *Cerebral Cortex*, 18(6), 1233-1238.
28. Ghuman, A., Bar, M., Dobbins, I.G., and Schnyer, D. (2008). The effects of priming on frontal-temporal communication. *Proceedings of the National Academy of Science*, 105(24), 8405-8409.
29. Bar, M., and Neta, M. (2008). The proactive brain: Using little information to make predictive judgments. *Journal of Consumer Behavior*, 7(4-5), 319-330.

30. Bar, M., Aminoff, E., and Schacter, D.L. (2008). Scenes unseen: The parahippocampal cortex intrinsically subserves contextual associations, not scenes or places per se. *Journal of Neuroscience*, 28, 8539-8544.
31. Aminoff, E., Schacter, D.L., and Bar, M. (2008). The cortical underpinnings of context-based memory distortion. *Journal of Cognitive Neuroscience*, 20(12), 2226-2237.
32. Chiao, J.Y., Iidaka, T., Gordon, H.L., Nogawa, J., Bar, M., Aminoff, E., Sadato, N., and Ambady, N. (2008). Cultural specificity in amygdala response to fear faces. *Journal of Cognitive Neuroscience*, 20(12), 2167-2174.
33. Bar, M. (2009). Predictions: A universal principle in the operation of the human brain (Introduction). Theme issue: Predictions in the brain: Using our past to generate a future. In Bar, M., (Ed.) *Philosophical Transactions of the Royal Society B*, 364, 1181-1182.
34. Barrett, L.F., and Bar, M. (2009). See it with feeling: Affective predictions during object perception. Theme issue: Predictions in the brain: Using our past to generate a future. Bar, M. (Ed.) *Philosophical Transactions of the Royal Society B*, 364, 1325-1334.
35. Bar, M. (2009). The proactive brain: memory for predictions. Theme issue: Predictions in the brain: Using our past to generate a future. In Bar, M. (Ed.) *Philosophical Transactions of the Royal Society B*, 364, 1235-1243.
36. Mason, M., Bar, M., and Macrae, M.N. (2009). Exploring past and present: Mind wandering in the brain's default state. *Cognitive Sciences*, 3(2), 143-162.
37. Bar, M. (2009). A cognitive neuroscience hypothesis of mood and depression. *Trends in Cognitive Sciences*, 13(11), 456-63.
38. Bar, M. (2010). Wait for the Marshmallow? Future-Oriented Thinking and Delayed Reward Discounting in the Brain. *Neuron*, 66(1), 4-5.
39. K. Kveraga, A.S. Ghuman, K.S. Kassam, E. Aminoff, M.S. Hamalainen, M. Chaumon, M. Bar (2011). Early onset of neural synchronization in the contextual associations network. *Proceedings of the National Academy of Sciences*. 108(8), 3389-94.
40. Yardley H, Perlovsky L, Bar M. Predictions and Incongruity in Object Recognition: A Cognitive Neuroscience Perspective. In *Detection and Identification of Rare Audiovisual Cues*. *Studies in Computational Intelligence Series*, Springer Publishing (In press).
41. M.F. Mason and M. Bar (in press) The effect of mental progression on mood. *Journal of Experimental Psychology: General*
42. M. Bar and A. Bubic. Top-down Effects in Visual Perception. In *The Oxford Handbook of Cognitive Neuroscience*. *The Oxford Handbook Series*, Oxford University Press (in press).
43. Leder H, Tinio P P L, Bar M (2011). Emotional valence modulates the preference for curved objects. *Perception*. 40(6) 649-655
44. K. Kveraga, A.S. Ghuman, K.S. Kassam, E. Aminoff, M.S. Hamalainen, M. Chaumon, M. Bar (2011) Early onset of neural synchronization in the contextual associations network. *Proceedings of the National Academy of Sciences*, 108(8), 3389-3394.

45. H. Yardley, L. Perlovsky, M. Bar Predictions and Incongruency in Object Recognition: A Cognitive Neuroscience Perspective. In *Detection and Identification of Rare Audiovisual Cues. Studies in Computational Intelligence Series*, Springer Publishing (In press).
46. M. Bar and A. Bubic. Top-down Effects in Visual Perception. In *The Oxford Handbook of Cognitive Neuroscience. The Oxford Handbook Series*, Oxford University Press (in press).
47. K. Shepherd and M. Bar. Preference for Symmetry: Only on Mars? Perception. (In press).

Reviews, Book Chapters and Books:

1. Biederman, I., Subramaniam, S., Kaloscai, P., Bar, M. (1997). Viewpoint-invariant information in subordinate-level object classification. In Gopher D., Koriat A., (Eds.) *Attention and Performance XVII. Cognitive regulation of performance: Interaction of theory and application* (pp. 91-112). Cambridge, MA: MIT Press.
2. Bar, M. (2000). Conscious and nonconscious processing of visual object identity. Rossetti, Y., Revonsuo, A., (Eds.) *Beyond Dissociations: Interaction between dissociable conscious and nonconscious processing* (pp. 153-74). Amsterdam: John Benjamins Publishing Company.
3. Bar, M. (2005). Top-down facilitation of visual object recognition. In: Itti, L., Rees, G., Tsotsos, J., (Eds.) *Neurobiology of Attention* (pp. 140-5). Burlington, MA: Elsevier Academic Press.
4. Kveraga, K., Boshyan, J., and Bar, M. (2008). The proactive brain: Using memory-based predictions in visual recognition. In Dickinson, S., Tarr, M., Leonardis, A., and Schiele, B., (Eds.) *Object Categorization: Computer and Human Vision Perspectives*. New York: Cambridge University Press.
5. Bar, M. (Ed.) (2011). *Predictions in the Brain*. New York: Oxford University Press Inc.
6. Bar, M. (2011). The proactive brain: memory for predictions. In Bar, M., (Ed.) *Predictions in the Brain*. (pp. 13-26). New York: Oxford University Press Inc.
7. Bar, M. (2011). Predictions: A universal principle in the operation of the human brain (Introduction). In Bar, M., (Ed.) *Predictions in the Brain*. (pp. v-vii). New York: Oxford University Press Inc.