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Date of birth: 10 December 1950
Place of birth: New York, NY, USA
Nationality: USA

Education

1955–1968	The Browning School, New York, NY, USA
1968–1969	McGill University, Montréal, Québec, Canada
1969–1975	Churchill College, University of Cambridge
1972	B. A. (Honours)
1972–1975	Research Student, The Psychological Laboratory, University of Cambridge
1975	Ph. D. (Supervisor: Colin Blakemore)
	Dissertation: <i>Plasticity of Binocular Organization in the Kitten's Visual System</i>
1976	M. A.

Honors

1972–1975	Research Training Scholarship, The Wellcome Trust
1977–1981	Research Fellowship in Neuroscience, Alfred P. Sloan Foundation
1980–1985	Research Career Development Award, National Eye Institute, National Institutes of Health
1985	Young Investigator Award, Society for Neuroscience
1985–1986	Visiting Fellowship, All Souls College, Oxford
1985–1986	Royal Society Guest Research Fellowship, University Laboratory of Physiology, Oxford
1985–1986	Senior International Fellowship, Fogarty International Center, National Institutes of Health
1986	Fellow, New York Institute for the Humanities
1992	Rank Prize for Optoelectronics
1993	Herman and Margaret Sokol Faculty Award, New York University
1993	Fellow, American Association for the Advancement of Science
1996	Lamport Lectureship, University of Washington, Seattle
1999	Presidential Professorship, New York University
2000	W. R. Bauer Foundation Lectureship, Brandeis University
2002	Silver Professorship, New York University

2006	A. J. Carlson Lectureship, University of Chicago
2006	Fellow, Association for Psychological Science
2007	Rank Prize Funds Lectureship, European Conference on Visual Perception
2008	Member, National Academy of Sciences
2009	Fellow, American Academy of Arts and Sciences
2010	Member, Dana Alliance for Brain Initiatives
2010	Silver Fellow, Association for Research in Vision and Ophthalmology
2010	António Champalimaud Vision Award
2011	University Professorship, New York University
2011	Battersby Memorial Lectureship, Queens College, CUNY
2012	Sc. D. (<i>Honoris Causa</i>), State University of New York
2013	Karl Spencer Lashley Award, American Philosophical Society
2013	Golden Brain Award, Minerva Foundation
2013–present	Senior Fellow, Simons Society of Fellows
2014	Broad Foundation Seminar in Neurobiology and Disease, Duke University
2014	Golden Bell Distinguished Neuroscientist Lecture, Beijing Normal University
2016	Robert I. Watson Lectureship, University of New Hampshire
2017	March of Dimes Lecture, Salk Institute for Biological Studies
2017	Ian Howard Memorial Lectureship, York University
2017	Cornelis Wiersma Visiting Professorship of Neurobiology, Caltech
2018	Wayne E. Crill Lectureship, University of Washington, Seattle
2023	Lifetime Achievement Award, Elsevier Miami Winter Symposium

Academic Positions (current positions in italic)

1975–1978	Assistant Professor of Psychology, New York University
1978–1984	Associate Professor of Psychology, New York University
1984–present	<i>Professor of Psychology, New York University</i>
1987–present	<i>Professor of Neural Science, New York University</i>
1999–2002	Presidential Professor, New York University
2002–present	<i>Silver Professor, New York University</i>
2011–present	<i>University Professor, New York University</i>
1987–1991, 1993–1998, 2004–2016	Director, Center for Neural Science, New York University
2017–2019	Interim Director, Institute for Brain and Cognitive Science, NYU Shanghai
1990–2017	Adjunct Professor of Physiology and Neuroscience, New York University School of Medicine
2017–present	<i>Professor of Neuroscience and Physiology, New York University School of Medicine</i>
2017–present	<i>Professor of Ophthalmology, New York University School of Medicine</i>
2017–present	<i>Investigator, Neuroscience Institute, New York University School of Medicine</i>
1991–2003	Investigator, Howard Hughes Medical Institute
2014–present	<i>Non-Resident Fellow, Salk Institute for Biological Studies</i>

Teaching Experience

- 1972–1975 Tutorial and laboratory teaching of undergraduate students in psychology and physiology, University of Cambridge.
- 1975–present Teaching graduate and undergraduate students in psychology and neuroscience, New York University.
- 1985–1994 Founder and Organizer, Cold Spring Harbor Laboratory Summer Course on Computational Neuroscience.
- 1985–present Teaching at neuroscience and vision science summer schools at Cold Spring Harbor Laboratory, Marine Biological Laboratory (Woods Hole), Champalimaud Research (Lisbon), European Summer Schools, (Rauschholzhausen, Lauterbad), Chinese Academy of Sciences (Shanghai), etc.

Learned Societies

- 1972–present American Association for the Advancement of Science
 AAAS Fellow, 1993
- 1974–present Association for Research in Vision and Ophthalmology
 Electrophysiology Section Committee, 1982–1983
 Chair, Electrophysiology Section, 1984
 Silver Fellow, 2010
- 1976–present Society for Neuroscience
 Program Committee, 1987–1991 (Chair, 1991)
 Information Technology Committee, 2006–2009
 Swartz Prize Selection Committee, 2010–2015
 Committee on Committees, 2011–2015
- 1990–present Association for Psychological Science (American Psychological Society)
 APS Fellow, 2006
- 1996–present American Physiological Society
- 1999–present Cognitive Neuroscience Society
 Program Committee, 1999–2006 (Chair, 2005–2006)
- 2001–present Vision Sciences Society
 Program Review Board, 2001–2007
 Board of Directors, 2007–2011
 President, 2009–2010
- 2008–present National Academy of Sciences
 Chair, Section 28 – Systems Neuroscience (2019-2022)
- 2009–present American Academy of Arts and Sciences

Professional Service

- National Institutes of Health, Visual Sciences B Study Section (1982–1987)
Chair, NEI/DRG Workshop on Anesthesia and Paralysis in Experimental Animals, Bethesda, MD, 1984 (report published in *Visual Neuroscience* 1, 421–426, 1988).
- National Research Council, Institute of Laboratory Animal Resources, Committee on the Detection and Alleviation of Pain and Distress in Laboratory Animals (1988–1990)
- Cold Spring Harbor Laboratory, Board of Trustees (1993–1998)
- National Eye Institute, Special Review Committees (1993–present), Board of Scientific Counselors (*ad hoc* member, 2006, 2010)

National Science Foundation, Neuroscience Advisory Panel (2001–2004)
National Institute of Mental Health, Board of Scientific Counselors (*ad hoc* member, 2001)
Washington National Primate Research Center, National Scientific Advisory Board (2005,
2010–present; Chair, 2019–present)
Alfred P. Sloan Foundation, Neuroscience Fellowship Panel (1994–2000)
The McKnight Endowment Fund for Neuroscience, Technological Innovations in Neuroscience
Panel (1998–2004), Scholar Awards Panel (2009–2018), Board of Directors (2011–
present), Vice-President (2018–2019), President (2020–present)
James S. McDonnell Foundation, 21st Century Awards Panel (2000–2008)
EJLB Foundation, Scientific Advisory Board (2001–2004)
Burroughs Wellcome Fund, Advisory Panel for Career Awards in the Biomedical Sciences
(2002–2007)
Jewish Guild for the Blind, Bressler Prize Jury (2002–2004)
Gatsby Computational Neuroscience Unit, University College, London, Quinquennial Review
Committee (2005), Scientific Advisory Board (2006–2012)
The Robert Leet and Clara Guthrie Patterson Trust, Scientific Review Board (2006–2009)
Simons Foundation Autism Research Initiative, Scientific Advisory Board (2006–2014)
The Weizmann Institute of Science, Rehovot, Israel, Scientific and Academic Advisory
Committee (2006)
Champalimaud Foundation, Lisbon, Portugal, Scientific Committee (2009–present)
Simons Collaboration on the Global Brain, Executive Committee (2012–present)
Center for Neural Circuits, Kavli Institute for Systems Neuroscience, Trondheim, Norway,
Scientific Advisory Board (2012–present)
National Research Council, Panel on Human Research and Engineering at the Army Research
Laboratory (2013–2016)
Max Planck Institute for Neurobiology, Martinsried, Germany, Scientific Advisory Board
(2013–2021)
Max Planck Florida Institute for Neuroscience, Jupiter, Florida, Scientific Advisory Board
(2013–present)
Institute of Neuroscience, Chinese Academy of Sciences, Shanghai, China, Scientific Advisory
Board (2014–2019)
Research to Prevent Blindness, Scientific Advisory Panel (2015–present)
Life Sciences Research Foundation, Peer Review Committee (2015, 2018, 2020, 2022)
Infosys Science Foundation, Prize Jury in Life Sciences (2016–2018)
Vanderbilt Brain Institute, Vanderbilt University, Nashville, Tennessee, External Advisory
Committee (2017)
Sainsbury-Wellcome Centre for Neural Circuits and Behaviour, University College, London,
Governing Board (2017–present)
Edmond and Lily Safra Center for Brain Sciences, The Hebrew University of Jerusalem, Israel,
Project Review Committee (2023)

Editorial Positions

Annual Review of Neuroscience (Editorial Committee, 1983–1987)
Visual Neuroscience (Editorial Board, 1987–1989)
Journal of Cognitive Neuroscience (Editorial Board, 1988–2003)
Trends in Neurosciences (Advisory Editorial Board, 1993–1996)
Network – Computation in Neural Systems (Executive Board, 1995–2003)
Journal of Neuroscience (Associate Editor, 1996–2002)
Journal of Vision (Editorial Board, 2000–present)
Neuron (Editorial Board, 2007–2020)
Perception (Editorial Board, 2010–2017)
Proceedings of the National Academy of Sciences (Editorial Board, 2010–present)
Annual Review of Vision Science (Founding Co-Editor, 2013–2021)
Science Advances (Associate Editor, 2015–2016)
Current Opinion in Neurobiology (Editorial Board, 2015–present)
Current Research in Neurobiology (Editorial Board, 2020–present)

Publications: Research Reports

- J. A. Movshon, B. E. I. Chambers and C. Blakemore (1972). Interocular transfer in normal humans, and those who lack stereopsis. *Perception* **1**, 483–490.
- J. A. Movshon and C. Blakemore (1973). Orientation specificity and spatial selectivity in human vision. *Perception* **2**, 53–60.
- C. Blakemore, M. Donaghy, L. Maffei, J. A. Movshon, D. Rose and R. C. Van Sluyters (1974). Evidence that nitrous oxide can maintain anaesthesia after induction with barbiturates. *Journal of Physiology* **237**, 39–41P.
- J. A. Movshon (1974). Velocity preferences of simple and complex cells in the cat's striate cortex. *Journal of Physiology* **242**, 121–123P.
- J. A. Movshon and C. Blakemore (1974). Functional reinnervation in kitten visual cortex. *Nature* **251**, 504–505.
- J. A. Movshon (1975). The velocity tuning of single units in cat striate cortex. *Journal of Physiology* **249**, 445–468.
- J. A. Movshon and D. J. Tolhurst (1975). On the response linearity of neurones in cat visual cortex. *Journal of Physiology* **249**, 56–57P.
- D. J. Tolhurst and J. A. Movshon (1975). Spatial and temporal contrast sensitivity of striate cortical neurones. *Nature* **257**, 674–675.
- C. Blakemore, R. C. Van Sluyters and J. A. Movshon (1976). Synaptic competition in the kitten's visual cortex. *Cold Spring Harbor Symposia on Quantitative Biology* **40**, 601–609.
- M. R. Dürsteler, L. J. Garey and J. A. Movshon (1976). Reversal of the morphological effects of monocular deprivation in the kitten's lateral geniculate nucleus. *Journal of Physiology* **261**, 189–210.
- A. P. Ginsburg, J. A. Movshon and D. J. Tolhurst (1976). Periodicity in complex cell responses. *Journal of Physiology* **254**, 69–70P.
- J. A. Movshon (1976). Reversal of the physiological effects of monocular deprivation in the kitten's visual cortex. *Journal of Physiology* **261**, 125–174.
- J. A. Movshon (1976). Reversal of the behavioural effects of monocular deprivation in the kitten. *Journal of Physiology* **261**, 175–187.
- J. A. Movshon and D. J. Tolhurst (1976). The use of a digital computer in the study of neuronal properties in the visual system. *Journal of Physiology* **254**, 2–4P.
- D. E. Mitchell, M. Cynader and J. A. Movshon (1977). Recovery from the effects of monocular deprivation in kittens. *Journal of Comparative Neurology* **176**, 53–64.
- J. A. Movshon and M. R. Dürsteler (1977). Effects of brief periods of unilateral eye closure on the kitten's visual system. *Journal of Neurophysiology* **40**, 1255–1265.
- C. Blakemore, J. A. Movshon and R. C. Van Sluyters (1978). Modification of the kitten's visual cortex by exposure to spatially periodic patterns. *Experimental Brain Research* **31**, 561–572.
- J. A. Movshon, I. D. Thompson and D. J. Tolhurst (1978). Spatial summation in the receptive fields of simple cells in the cat's striate cortex. *Journal of Physiology* **283**, 53–77.
- J. A. Movshon, I. D. Thompson and D. J. Tolhurst (1978). Receptive field organization of complex cells in the cat's striate cortex. *Journal of Physiology* **283**, 79–99.

- J. A. Movshon, I. D. Thompson and D. J. Tolhurst (1978). Spatial and temporal contrast sensitivity of neurones in areas 17 and 18 of the cat's visual cortex. *Journal of Physiology* **283**, 101–120.
- P. G. Thompson and J. A. Movshon (1978). Storage of spatially specific threshold elevation. *Perception* **7**, 65–73.
- J. A. Movshon and P. Lennie (1979). Spatially selective adaptation in striate cortical neurones. *Nature* **278**, 850–852.
- A. R. Ardid, P. A. Anderson and J. A. Movshon (1981). Monocular and binocular detection of moving sinusoidal gratings. *Vision Research* **21**, 329–336.
- A. R. Ardid, L. Kaufman and J. A. Movshon (1981). A simple explanation of the induced size effect. *Vision Research* **21**, 755–764.
- T. Pasternak, W. H. Merigan and J. A. Movshon (1981). Motion mechanisms in strobe-reared cats: psychophysical and electrophysiological measures. *Acta Psychologica* **48**, 321–332.
- T. Pasternak, J. A. Movshon and W. H. Merigan (1981). Creation of direction selectivity in adult strobe-reared cats. *Nature* **292**, 834–836.
- D. J. Tolhurst, J. A. Movshon and I. D. Thompson (1981). The dependence of response amplitude and variance of cat visual cortical neurones on stimulus contrast. *Experimental Brain Research* **41**, 414–419.
- E. H. Adelson and J. A. Movshon (1982). Phenomenal coherence of moving visual patterns. *Nature* **300**, 523–525.
- E. H. Adelson and J. A. Movshon (1983). The perception of coherent motion in two-dimensional patterns. *Proceedings of the Association of Computing Machinery. Interdisciplinary Workshop on Motion: Representation and Perception*, Toronto, Canada, pp. 11–14, April 4–6, 1983.
- A. R. Ardid, L. Kaufman and J. A. Movshon (1983). A reply to the comments of Mayhew and Frisby. *Vision Research* **23**, 665–668.
- D. J. Tolhurst, J. A. Movshon and A. F. Dean (1983). The statistical reliability of signals in single neurons in cat and monkey striate cortex. *Vision Research* **23**, 775–785.
- R. A. Schumer and J. A. Movshon (1984). Length summation in simple cells of cat striate cortex. *Vision Research* **24**, 565–571.
- J. A. Movshon, E. H. Adelson, M. S. Gizzi and W. T. Newsome (1985). The analysis of moving visual patterns. In *Pattern Recognition Mechanisms*, ed. C. Chagas, R. Gattass and C. Gross (*Pontificiae Academiae Scientiarum Scripta Varia* **54**, 117–151). Rome: Vatican Press. (Reprinted in *Experimental Brain Research*, Supplementum **11**, 117–151, 1986, and in *Frontiers in Cognitive Neuroscience*, ed. S. M. Kosslyn and R. A. Andersen, Cambridge, MA: MIT Press, 1992).
- T. Pasternak, R. A. Schumer, M. S. Gizzi and J. A. Movshon (1985). Abolition of cortical directional selectivity affects visual behavior in cats. *Experimental Brain Research* **61**, 214–217.
- L. Kiordes and J. A. Movshon (1987). The development of vernier acuity and spatial resolution in infant monkeys. *Journal of Physiology* **396**, 141P.

- L. Kiorpes, R. G. Boothe, A. E. Hendrickson, J. A. Movshon, H. M. Eggers and M. S. Gizzi (1987). Effects of early unilateral blur on the macaque's visual system. I. Behavioral observations. *Journal of Neuroscience* **7**, 1318–1326.
- A. E. Hendrickson, J. A. Movshon, H. M. Eggers, M. S. Gizzi, R. G. Boothe and L. Kiorpes (1987). Effects of early unilateral blur on the macaque's visual system. II. Anatomical observations. *Journal of Neuroscience* **7**, 1327–1339.
- J. A. Movshon, H. M. Eggers, M. S. Gizzi, A. E. Hendrickson, L. Kiorpes and R. G. Boothe (1987). Effects of early unilateral blur on the macaque's visual system. III. Physiological observations. *Journal of Neuroscience* **7**, 1340–1351.
- J. A. Movshon and L. Kiorpes (1988). Analysis of the development of spatial contrast sensitivity in monkey and human infants. *Journal of the Optical Society of America, A* **5**, 2166–2172.
- P. A. Anderson and J. A. Movshon (1989). Binocular combination of contrast signals. *Vision Research* **29**, 1115–1132.
- L. Kiorpes and J. A. Movshon (1989). Differential development of two visual functions in primates. *Proceedings of the National Academy of Sciences, U. S. A.* **86**, 8998–9001.
- W. T. Newsome, K. H. Britten and J. A. Movshon (1989). Neuronal correlates of a perceptual decision. *Nature* **341**, 52–54.
- M. S. Gizzi, E. Katz and J. A. Movshon (1990). Spatial and temporal analysis by neurons in the representation of the central visual field in the cat's lateral suprasylvian visual cortex. *Visual Neuroscience* **5**, 463–468.
- M. S. Gizzi, E. Katz, R. A. Schumer and J. A. Movshon (1990). Selectivity for orientation and direction of motion of single neurons in the cat's striate and extrastriate visual cortex. *Journal of Neurophysiology* **63**, 1529–1543.
- J. B. Levitt, R. M. Sanchez, E. L. Smith III and J. A. Movshon (1990). Spatio-temporal interactions and the spatial phase preferences of visual neurons. *Experimental Brain Research* **80**, 441–445.
- J. A. Movshon, S. G. Lisberger and R. J. Krauzlis (1990). Visual cortical signals supporting smooth pursuit eye movements. *Cold Spring Harbor Symposia on Quantitative Biology* **LV**, 707–716.
- W. T. Newsome, K. H. Britten, C. D. Salzman and J. A. Movshon (1990). Neuronal mechanisms of motion perception. *Cold Spring Harbor Symposia on Quantitative Biology* **LV**, 697–705.
- B. C. Skottun, R. L. DeValois, D. H. Grosof, J. A. Movshon, D. G. Albrecht and A. B. Bonds (1991). Classifying simple and complex cells on the basis of response modulation. *Vision Research*, **31**, 1079–1086.
- K. H. Britten, M. N. Shadlen, W. T. Newsome and J. A. Movshon (1992). The analysis of visual motion: a comparison of neuronal and psychophysical performance. *Journal of Neuroscience* **12**, 4745–4765.
- S. P. McKee, C. M. Schor, S. B. Steinman, N. Wilson, G. G. Koch, S. M. Davis, C. Hsu-Winges, S. H. Day, C. L. Chan, J. A. Movshon, M. C. Flom, D. M. Levi and J. T. Flynn (1992). The classification of amblyopia on the basis of visual and oculomotor performance. *Transactions of the American Ophthalmological Society* **90**, 123–148.
- K. H. Britten, M. N. Shadlen, W. T. Newsome and J. A. Movshon (1993). Responses of neurons in macaque MT to stochastic motion signals. *Visual Neuroscience* **10**, 1157–1169.

- L. Kiorpis, D. C. Kiper and J. A. Movshon (1993). Contrast sensitivity and vernier acuity in amblyopic monkeys. *Vision Research* **33**, 2301–2311.
- K. R. Gegenfurtner, D. C. Kiper, J. M. H. Beusmans, M. Carandini, Q. Zaidi and J. A. Movshon (1994). Chromatic properties of neurons in macaque MT. *Visual Neuroscience* **11**, 455–466.
- J. B. Levitt, D. C. Kiper and J. A. Movshon (1994). Receptive fields and functional architecture of macaque V2. *Journal of Neurophysiology* **71**, 2517–2542.
- S. G. Lisberger and J. A. Movshon (1994). A different approach to modelling pursuit eye movements. In *Contemporary Ocular Motor and Vestibular Research: A Tribute to David A. Robinson*, ed. A. F. Fuchs, T. Brandt, U. Buttner and D. Zee. New York: Thieme, pp 304–311.
- K. H. Britten, W. T. Newsome, M. N. Shadlen, S. Celebrini and J. A. Movshon (1996). A relationship between behavioral choice and the visual responses of neurons in macaque MT. *Visual Neuroscience* **13**, 87–100.
- M. Carandini, F. Mechler, C. S. Leonard and J. A. Movshon (1996). Spike train encoding by regular-spiking cells of the visual cortex. *Journal of Neurophysiology* **76**, 3425–3441.
- D. J. Heeger, E. P. Simoncelli and J. A. Movshon (1996). Computational models of cortical visual processing. *Proceedings of the National Academy of Sciences, U. S. A.* **93**, 623–627.
- L. Kiorpis and J. A. Movshon (1996). Amblyopia: a developmental disorder of the central visual pathways. *Cold Spring Harbor Symposia on Quantitative Biology* **LXI**, 39–48.
- L. Kiorpis, P. J. Walton, L. P. O'Keefe, J. A. Movshon and S. G. Lisberger (1996). Effects of early-onset artificial strabismus on pursuit eye movements and on neuronal responses in area MT of macaque monkeys. *Journal of Neuroscience* **16**, 6537–6553.
- D. C. Kiper, K. R. Gegenfurtner and J. A. Movshon (1996). Cortical oscillatory responses do not affect visual segmentation. *Vision Research* **36**, 539–544.
- J. A. Movshon and W. T. Newsome (1996). Visual response properties of striate cortical neurons projecting to area MT in macaque monkeys. *Journal of Neuroscience* **16**, 7733–7741.
- M. N. Shadlen, K. H. Britten, W. T. Newsome and J. A. Movshon (1996). A computational analysis of the relationship between neuronal and behavioral responses to visual motion. *Journal of Neuroscience* **16**, 1486–1510.
- W. Bair, J. R. Cavanaugh and J. A. Movshon (1997). Reconstructing stimulus velocity from neuronal responses in area MT. In *Advances in Neural Information Processing Systems 9*, ed. M.C. Mozer, M. I. Jordan and T. Petsche. Cambridge, MA: MIT Press, pp 34–40.
- M. Carandini, H. B. Barlow, L. P. O'Keefe, A. B. Poirson and J. A. Movshon (1997). Adaptation to contingencies in macaque primary visual cortex. *Philosophical Transactions of the Royal Society of London, Series B*, **352**, 1149–1154.
- M. Carandini, D. J. Heeger and J. A. Movshon (1997). Linearity and normalization in simple cells of the macaque primary visual cortex. *Journal of Neuroscience* **17**, 8621–8644.
- M. Carandini, J. A. Movshon and D. Ferster (1998). Pattern adaptation and cross-orientation interactions in the primary visual cortex. *Neuropharmacology* **37**, 501–511.
- L. Kiorpis, D. C. Kiper, L. P. O'Keefe, J. R. Cavanaugh and J. A. Movshon (1998). Neuronal correlates of amblyopia in the visual cortex of macaque monkeys with experimental strabismus and anisometropia. *Journal of Neuroscience* **18**, 6411–6424.

- L. Kiorpes and J. A. Movshon (1998). Peripheral and central factors limiting the development of contrast sensitivity in macaque monkeys. *Vision Research* **38**, 61–70.
- K. M. Murphy, D. G. Jones, S. B. Fenstemaker, V. D. Pegado, L. Kiorpes and J. A. Movshon (1998). Spacing of cytochrome oxidase blobs in visual cortex of normal and strabismic monkeys. *Cerebral Cortex* **8**, 237–244.
- L. P. O'Keefe, J. B. Levitt, D. C. Kiper, R. M. Shapley and J. A. Movshon (1998). Functional organization of owl monkey lateral geniculate nucleus and visual cortex. *Journal of Neurophysiology* **80**, 594–609.
- L. P. O'Keefe and J. A. Movshon (1998). Processing of first- and second-order motion signals by neurons in area MT of the macaque monkey. *Visual Neuroscience* **15**, 305–317.
- L. Kiorpes, C. Tang and J. A. Movshon (1999). Factors limiting contrast sensitivity in experimentally amblyopic macaque monkeys. *Vision Research* **39**, 4152–4160.
- S. G. Lisberger and J. A. Movshon (1999). Visual motion analysis for pursuit eye movements in area MT of macaque monkeys. *Journal of Neuroscience* **19**, 2224–2246.
- J. B. Levitt, R. A. Schumer, P. D. Spear, S. M. Sherman and J. A. Movshon (2001). Visual response properties of neurons in the lateral geniculate nucleus of normally-reared and visually-deprived monkeys. *Journal of Neurophysiology* **85**, 2111–2129.
- S. B. Fenstemaker, L. Kiorpes and J. A. Movshon (2001). Effects of experimental strabismus on the architecture of macaque monkey striate cortex. *Journal of Comparative Neurology* **438**, 300–317.
- W. Bair, J. R. Cavanaugh, M.A. Smith and J. A. Movshon (2002). The timing of response onset and offset in macaque visual neurons. *Journal of Neuroscience* **22**, 3189–3205.
- J. R. Cavanaugh, W. Bair and J. A. Movshon (2002). Nature and interaction of signals from the receptive field center and surround in macaque V1 neurons. *Journal of Neurophysiology* **88**, 2530–2546.
- J. R. Cavanaugh, W. Bair and J. A. Movshon (2002). Selectivity and spatial distribution of signals from the receptive field surround in macaque V1 neurons. *Journal of Neurophysiology* **88**, 2547–2556.
- N. C. Rust, S. R. Schultz and J. A. Movshon (2002). A reciprocal relationship between reliability and responsiveness in developing visual cortical neurons. *Journal of Neuroscience* **22**, 10519–10523.
- M. A. Smith, W. Bair and J. A. Movshon (2002). Signals in macaque striate cortical neurons that support the perception of Glass patterns. *Journal of Neuroscience* **22**, 8334–8345.
- S. P. McKee, D. M. Levi and J. A. Movshon (2003). The pattern of visual deficits in amblyopia. *Journal of Vision* **3**, 380–405 (<http://www.journalofvision.org/3/5/5/>).
- A. Kohn and J. A. Movshon (2003). Neuronal adaptation to visual motion in area MT of the macaque. *Neuron* **39**, 681–691.
- W. Bair, J. R. Cavanaugh and J. A. Movshon (2003). Time course and time-distance relationships for surround suppression in macaque V1 neurons. *Journal of Neuroscience* **23**, 7690–7701.
- L. Kiorpes, C. Tang, M. J. Hawken and J. A. Movshon (2003). Ideal observer analysis of the development of spatial contrast sensitivity in macaque monkeys. *Journal of Vision* **3**, 630–641 (<http://journalofvision.org/3/10/6/>)

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- A. Kohn and J. A. Movshon (2004). Adaptation changes the direction tuning of macaque MT neurons. *Nature Neuroscience* **7**, 764–772.
- W. Bair and J. A. Movshon (2004). Adaptive temporal integration of motion in direction selective neurons in macaque visual cortex. *Journal of Neuroscience* **24**, 7305–7323.
- L. Kiorpes and J. A. Movshon (2004). Development of sensitivity to visual motion in macaque monkeys. *Visual Neuroscience* **21**, 851–859.
- M. A. Smith, N. J. Majaj and J. A. Movshon (2005). Dynamics of motion signaling by neurons in macaque area MT. *Nature Neuroscience* **8**, 220–228.
- J. A. Movshon, L. Kiorpes, M. J. Hawken and J. R. Cavanaugh (2005). Functional maturation of the macaque's lateral geniculate nucleus. *Journal of Neuroscience* **25**, 2712–2722.
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