

PART I: General Information

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Place of Birth: London, UK
Date of Birth: January 31, 1955
Citizenship: United States

Education:

YEAR	DEGREE	INSTITUTION
1977	A.B.(summa cum laude)	Princeton University
1981	Ph.D. (Psychology)	MIT

Doctoral Thesis: On Binocular Single Vision.
Advisor: Richard Held

Academic Appointments:

Beginning	Ending	Title	Institution
1981	1983	Lecturer, Psychology	MIT
1983	1986	Assistant Professor, Psychology	MIT
1986	1987	Assistant Professor, Brain and Cognitive Sciences	MIT
1987	1991	Associate Professor, Brain and Cognitive Sciences,	MIT
1988	1991	Class of 1922, Associate Professor,	MIT
1991	2002	Associate Prof, Ophthalmology	Harvard Medical School
2002		Professor of Ophthalmology	Harvard Medical School
2003		Faculty Affiliate	HMS, Div. Sleep Med.

Hospital Appointments:

Beginning	Ending	Title	Institution
1991		Psychophysicist	BWH/Surgery
1991		Director of Psychophysical Studies, Center for Clinical Cataract Research (now Center for Ophthalmic Research)	BWH

Other Appointments:

Beginning	Ending	Title	Institution
1991	2002	Visiting Associate Professor,	MIT, Brain & Cog Sci
1993	1994	Visiting Associate Prof,	Brown U, Cog. Sci. 1993
	2003	Adjunct Associate Prof,	Boston U. CNS
2003		Adjunct Professor,	Boston U. CNS
1991	1992	Visiting Associate Professor,	Wellesley, Psychology
2002	to date	Visiting Senior Lecturer	MIT, Brain & Cog Sci

Major Committee Assignments:

External Committees, Service, etc.

1998-2002 NIH - Member of Visual Sciences B (VISB) panel

ad hoc reviews NIH, NIMH, NSF, AFOSR, HFSP,
NSERC (Canada), SERC (United Kingdom), ISF (Israel), BSF (Israel)
NIMH-SEP (7/04)

Internal Committees, Other Assigned Duties:

	Beginning	Ending
Founder and Chair: MIT Program in Psychology	1987	1991
President, MIT Phi Beta Kappa chapter	1990	1991
MIT Committee on Curricula	1985	1988
MIT Committee on Independent Activities Period	1986	1990
Committees to design an integrative curriculum liberal arts	1985/86/87	1988
Committee on HASS-distribution courses outside the school of Hum, Arts, and Social Sciences	1986	1987
Steering Committee of the Cognitive Science major	1984	1991
Freshman Advisor including Advisor Seminars ('88-'90)	1981	1991
Faculty Fellow, MacGregor	1988	1989
Departmental coordinator/organizer for UROP, IAP, Vision Lunch, transfer credit etc	various periods	
Advisor to Student Peer-Counseling Hotline	1989	1991
Low Vision Search committee (Schepens Eye Res Inst)	1998	

Professional Societies

President: Eastern Psychological Association (2001-2002)
 Board of Directors: Eastern Psychological Association (1996-1999)
 Exec. Committee: APA Div 6 (1997-1999), APA Div 1 (2004-5)
 Program Committees: Assoc. for Res. in Vision and Ophthalmology (ARVO) (1993-1996)
 Eastern Psychological Association (1988-1991)
 APA Div 6 (1997-1998), Cognitive Science Society (occasional, e.g.
 2002)
 Program Chair: ARVO - Visual Psychophysics section (1995-1996)
 APA Div 6 (1998 meeting), APA Div 1 (2004 meeting)
 Award Judge: APA early career awards 1998/99

Liason to APA Committee on Internation Relations in Psych (2002-date)

Current Organization Membership:

Association for Research in Vision and Ophthalmology
 Psychonomic Society
 American Psychological Association (fellow - Divisions 1, 3, 6)
 American Psychological Society (fellow as of 2002)
 Eastern Psychological Association
 Society for Experimental Psychology
 American Association for the Advancement of Science (fellow as of 2002)

Editorial Boards

Consulting Editor:	Visual Cognition (2005-date)
Associate Editor:	Perception and Psychophysics (1998-2003)
Associate Editor	APA, Ency. of Psychology (1996-2000)
Ed. Advisory Board	Academic Press, Encyclopedia of the Human Brain (1998-2002)
Consulting Editor:	Perception and Psychophysics (1993-1997, 2003-)
Consulting Editor:	J. Exp. Psychol.: Human Perception and Performance (1989-1993)
Consulting Editor:	Spatial Vision (1991-date)
Guest Editor:	Spatial Vision: Special Issue in Honor of Bela Julesz
Book Review Ed:	Perception (1994-2001?)
Editorial Board:	Cognitive Science (1996-date)
Advisor:	MIT Press (1996-date)

Honors and Awards Received:

Phi Beta Kappa (Princeton)	1977
Summa Cum Laude (Princeton)	1977
Class of 1922 Professorship (MIT)	1988
Baker Memorial Prize (Undergraduate Teaching: MIT)	1989
Fellow of the American Psychological Association (Div 6)	1995
Fellow of the American Psychological Association (Div 3)	1997
Elected to Society of Experimental Psychologists	2001
Fellow of the American Psychological Association (Div 1)	2002
Fellow of the American Psychological Society	2002
Fellow of American Assoc. for the Advancement of Science	2002
Honorary Masters of Arts, Harvard U.	2003

Part II: Research and Teaching**A. Narrative Report - on request****B. Research Funding Information***Past Funding*

2/82 - 2/83	NIH 1 RO3 EY04297-01 False Fusion and Binocular Vision
12/83 - 11/86	NIH (1 R01 EY5087) Binocular Perception Despite Stereodeficiency
3/85 - 2/88	Lighting Research Institute (85:SP:5) Focusing the Eyes: Sensory and Adaptive Properties of Accommodation
7/85 - 6/87	Whitaker Health Sciences Fund Basic Problems and Health-Related Issues in Human Vision
4/84 - 3/88	BRSF via MIT, Normal and Abnormal Binocular Human Vision
7/88 - 6/91	MIT, Class of '22 Chair
2/88 - 1/89	(with E. Adelson) Educational Foundation of America Psychophysical evaluation of a model of motion perception

- 4/93 - 3/95 NIH (F32 EY06492) (Wolfe = Sponsor)
Individual differences in visual attention.
(Post-doctoral fellowship for Patricia O'Neill)
- 1/96 - 1/98 NIH (F32 MH11306) (Wolfe = Sponsor)
Circadian analysis of selective attention.
(Post-doctoral fellowship for Todd Horowitz)
- 7/96 - 12/99 HFSP - Perception of surface properties of objects.
(Collaboration with four other PIs: P Jolicoeur - director, S Kosslyn,
L. Chen, G. Humphreys, W. Cowan)
- 9/97 - 9/00 NSF SBR-9710498 (PI) Post-Attentive Vision
- 7/94 - 7/99 NIH - NHLBI (RO1 - HL52992)
(Wolfe = Investigator, PI=C. Czeisler)
Bright light treatment of shift rotation insomnia
- 9/99 - 9/02 NIH - NORA (Wolfe = Investigator, PI=Czeisler)
Circadian adaptation to night work in older people.

Current Funding

- 6/93 - Present Air Force Office of Scientific Research (AFOSR) (PI)
Toward Guided Search 3.0 (renewed to '05)
- 12/86 - Present NIH - NEI (R01 EY05087) (PI)
Psychophysical Structure of Human Vision (renewed to '04)
- 9/98 - Present NIMH (RO1 - MH56020) (PI)
Post-Attentive Vision (renewed to '07)
- 1/02-present US Dept of Transportation (FAA 02-G-010) (PI)
Self-regulation of visual search behavior
- 8/03-present NIMH (RO1-MH065576) (Horowitz-PI, Wolfe-
Investigator) Control of Dynamic Attention

C. Major Current Research Interests

Work in the laboratory can be broken into six major areas.

Basic Research

1. Preattentive vision - Studies of the processing of visual stimuli before they are selected by attention for further, more complete analysis.
2. Attentional deployment - Studies of the mechanisms by which attention selects specific items.

3. Post-Attentive vision - Studies of the consequences of attention. Once attention has been deployed to an item and has been removed, what are the persistent effects of that act of attention?

Clinical and Applied Research

4. Effect of circadian phase and sleep deprivation on attention - In collaboration with the lab of Dr. Charles Czeisler (Harvard / BWH), as series of studies of the interaction of attention with sleep and circadian factors.
5. Studies of visual search as they apply to Airport Security

C. Teaching

Narrative - on request

1. Local Contributions

Current Courses

	Title	
MIT & Harvard	Introduction to Psychology Undergraduate 60-500 students	1981 to date

Course in a 4-year rotation

MIT	Madness and Literature 30 students (Concourse)	Spring, 2001, 2005
MIT	Rhetoric Psychology and Literature 30 students (Concourse)	Spring, 2002
MIT	Reading and Writing the Essay Psychology and Literature (Disgust) 36 students (Concourse)	Spring, 2003
MIT	Love and Agression Psychology and Literature 35 students (Concourse)	Spring, 2004

Courses not currently taught

MIT & Wellesley	Sensation and Perception Undergraduate about 30 students	w/ R Held 1980-82 Wellesley, Spring '92
MIT & Brown	Human Vision Graduate about 15 students	Brown '94 was with Leslie Welch
Brown	Visual Attention Graduate	Spring '94

about 15 students

MIT	Seminars on the intersection of Visual Physiology and Psychophysics	usually w/ P Schiller
MIT	Faculty "minicourse" in Psychology	1988

Any number of lectures as part of team-taught graduate survey courses, as well as guest lectures in a variety of other courses, Vision lunch talks, Cognitive Lunch talks, lectures to Ophthalmology residents, and so forth.

Advisory and Supervisory Responsibilities

Project Success (a program at HMS to "open the door to biomedical careers" for under-represented minority High School students.) One student mentored each summer (1998-2001).

Research Science Institute of the Center for Excellence in Education (a national program giving research experience to talented HS students) One student mentored each summer plus lecture (1996?-date).

Doctoral Committee Membership

Carmen Egido (MIT)
Shinsuke Shimojo (MIT)
Joseph Scheuhammer (MIT)
Kyle Cave (MIT)
Miri Dick (Weizmann Inst, Israel)
Josee Rivest (Harvard)
Belinda Goodenough (U. New South Wales, Australia)
Greg Zelinsky (Brown)
Marvin Chun (MIT)
Nicholas John Reynolds (Australian National U.)
Vera Maljkovic (Harvard)
Satoru Suzuki (Harvard)
Diane Williams (Toronto)
Robert Cunningham (Boston U.)
Gregory Gancarz (Boston U.)
Michael Anes (Boston U.)
Arni Kristjansson (Harvard)
Steve Fraconeri (Harvard)
Richard DeVaul (MIT)

Graduate Students

Gregory Gancarz (Boston U., 1993-1996)

Post-doctoral Students

Patricia O'Neill (1992 - 1995) now Asst. Prof. – Western Conn. U
Todd Horowitz (1995 - 1999) now Instructor, Harvard Med.
Gary Randall (1998 - 2000) Software development - UK
Peter Brawn (1998 - 2000) Access Testing Centre, Sydney, Australia
Aude Oliva (2000 - 2002) Now Asst. Prof. – Michigan State
Nayantara Santhi (2000 - 2002) Now at Div. Of Circadian Medicine, BWH
David Fencsik (2003 -)
Evan Palmer (2003 -)

Melina Kunar (2003 -)

Research Fellows

Constance Royden (1997) now Asst. Prof. - Holy Cross, Worcester, MA

Research Associates

Todd Horowitz (1999-) Instructor, Harvard Med

Kathy O'Craven (1999-2000) Asst. Prof. - U Toronto

2. Regional, National, or International Contributions

Selected Invited Colloquia:

Brandeis	U. Houston
Princeton U.	Wesleyan College, CN
Yale U.	Harvard U.
Brown U.	U. Delaware
NE College of Optometry	NIH, Bethesda, MD
Tufts U, Somerville, MA	Boston U.
U. Waterloo, Ontario, Canada	McMaster U, Ontario, Canada
Johns Hopkins U.	U. of Toronto
Ohio State	MIT
U. of Utah	Shriver Center (Waltham, MA)
Georgetown (Washington, DC)	CalTech
U. Southern California	Duke (11/99)
Columbia U (12/99)	Rutgers U. (2/00)
Boston VA Hospital (12/00)	University College London (12/00)
MIT AI lab (1/01)	Houston - Optometry (2/01)
Rice U (2/01)	Brandeis (4/01)
U. Beijing Graduate School (8/01)	Boston U (9/01)
Schepens Eye Research Inst (9/01)	Vanderbilt U/ (Nashville, TN, 4/02)
Boston U Med School (Raviola Lecture, 4/02)	Wright-Patterson AFB (7/02)
Georgia Tech (10/02)	Rockefeller U, NY (1/03)
Concordia U, Montreal (2/03)	Harvard Psych (3/03)
MGH-Navy Yard (3/03)	MIT-BCS (4/03)
Boston U Beck Memorial Symposium (9/03)	
Macquarie U, Sydney, Australia (1/04)	
Dartmouth (3/04)	Stanford (8/04)
TSA/Atlantic City (10/04)	Duke (3/05)
Columbia (3/05)	U. Illinois (3/05)

Invited Conference Presentations

1993	talk	Guided Search 2.0: The upgrade. Human Factors Society
1993	talk	The effects of aging on normal visual function. ARVO Symposium on Cataract at the Academy of Ophthalmology Meeting,
1993	talk	A new look at binocular single vision. Academy of Optometry
1994	talk	Extending Guided Search: Why Guided Search needs a preattentive "item map". CW Eriksen Festschrift, U. Illinois, May 20-22

- 1995 talk Understanding visual search and visual attention. Invited Address, Eastern Psychological Association Annual Meeting, Boston, April 1
- 1995 talk Where is Guided Search going? Banff Annual Seminar in Cognitive Science (BASICS) Banff, Alberta, CA, May 1995
- 1996 talk Vision: preattentive, attentive and post-attentive. New Fellows Address American Psychological Association meeting - Toronto, Aug. 1996
- 1996 talk Post-attentive vision. International Congress of Psychology - Montreal, Aug. 1996
- 1997 2 talks Visual search: Preattentive processing and the guidance of visual attention. and Visual experience: Less than you think, more than you know. at Neuronal basis and psychological aspects of consciousness. - Instituti Italiano per gli Studi Filosofici, International School of Biocybernetics, Ischia, Italy, Oct, 1997
- 1998 talk HM as a model of vision: Vision as amnesia. - American Psychological Association, Mind, Brain, and Behavior Symp. Aug 14th San Francisco.
- 1998 talk How quickly they forget: A modest alternative to blinds an blindness. Abstracts of the Psychonomic Society (Dallas, Nov, '98) Abs. #507
- 1999 talk Paying attention to attention in the teaching of Psychology. - National Institute on the Teaching of Psychology (NITOP), St. Petersburg, Jan. 1999
- 1999 talk Vision, attention, and memory. 3rd annual Vision Research conference. Preattentive and Attentive Mechanisms in Vision (7-8 May): Ft. Lauderdale, FL.
- 1999 talk The Deployment of Covert Attention: Two Surprises. NATO RTO/SCI-12 Workshop on Search and Target Acquisition. (21-23 June): Utrecht, The Netherlands
- 2000 talk Post-attentive vision and the illusion of perception. Invited paper presented at the Toward a Science of Consciousness, Tuscon, AZ. (April 11, 2000)
- 2000 talk The unbinding problem. Invited paper presented at the annual meeting of the Psychonomic Society, New Orleans, LA. (Nov 18, 2000)
- 2001 workshop Change Blindness Workshop, Duke U, May 26, 2001
- 2001 talk From stimulus to perception: "Small is the gate and narrow the road", Invited Plenary speaker at the Fifth annual meeting of the Association for the Study of Consciousness. Duke U, May 28, 2001
- 2001 talk Levels of Perceptual Delusion: The problem of post-attentive vision, invited speaker at 'Levels of Perception' conference in honor of Ian Howard, York U., Toronto, Ontario June 19-23, 2001

- 2002 talk What are we searching for? Studies in Visual Attention. Presidential Address at Annual meeting of the Eastern Psychological Association, Boston, April 9, 2002
- 2002 talk What guides the development of attention in visual search? Old question – new answers. Invited Symposium Talk Meeting of the Psychonomic Society, Kansas City, MO(Nov, 2002).
- 2003 talk Modeling visual search: Guided search and its friends. Invited Keynote, Munich Symposium on Visual Search, Holzhausen am Ammersee, Bavaria, Germany (June, 2003).
- 2003 talk Speed limits on the top-down guidance of attention. Invited talk, International workshop on Visual Attention. San Miniato, Italy (June, 2003).
- 2004 talk Reconfiguring your visual system: How and how fast do you change your mind? Invited talk: Visual Cortex: A variety of viewpoints. Satellite meeting of the Australian Neuroscience Society, (Melbourne, Jan 27, 2004)
- 2004 talk A two-pathway architecture for visual attention (w/ Todd Horowitz): Invited Talk: Australian Neuroscience Society, (Melbourne, Jan 29, 2004)
- 2004 talk The role of selective attention in human vision: A two pathways account. Invited Talk: Eighth International Conference on Cognitive and Neural Systems, Boston University on May 19-22, 2004.
- 2004 talk What Are We Searching For? Seeking Guidance in the Study of Visual Attention. Invited Plenary Talk: Annual meeting of the American Psychological Association, Honolulu, July 28 – Aug 1, 2004
- 2005 talk Guided Search: Invited talk at Modeling Integrated Cognitive Systems (MICS) Saratoga Springs, NY, March 3-5, 2005
- 2005 talk How Might the Rules that Govern Visual Search Constrain the Design of Visual Displays? Invited talk - Society for Information Display May 22-27, 2005 Boston, Massachusetts USA

3. Teaching Awards

1989 Baker Memorial Prize (Undergraduate Teaching: MIT)

4. Leadership Roles Related to Teaching

I created to the Program in Psychology at MIT, an umbrella organization that brings together faculty from a number of departments to provide a semblance of an undergraduate education in Psychology.

PART III: Bibliography

79 Published papers, 5 submitted, 20 book chapters, 24 other publications, 198 published abstracts

Original Reports (in refereed publications):

1. Kinchla, R.A., & Wolfe, J.M. The order of visual processing: "Top-down", "bottom-up", or "middle-out". *Perception and Psychophysics* 1979; 25: 225-231.
2. Wolfe, J.M., & Held, R. Eye torsion and visual tilt are mediated by different binocular processes. *Vision Research* 1979; 19: 917-920.
3. Wolfe, J.M., & Owens, D.A. Evidence for separable binocular processes differentially affected by artificial anisometropia. *American Journal of Optometry and Physiological Optics* 1979; 56: 279-284.
4. Wolfe, J.M. The computer paper illusion. *Perception* 1979; 8: 347-348.
5. Held, R., Gwiazda, J., Brill, S., Mohindra, I. & Wolfe, J.M. Infant visual acuity is underestimated because near threshold gratings are not preferentially fixated. *Vision Research* 1979; 19: 1377-1379.
6. Gwiazda, J., Wolfe, J.M., Brill, S., Mohindra, I., & Held, R. Quick assessment of preferential looking acuity in infants. *American Journal of Optometry and Physiological Optics* 1980; 57 :420-427.
7. Wolfe, J.M., & Held, R. Cyclopean stimulation can influence sensations of self-motion in normal and stereoblind subjects. *Perception and Psychophysics* 1980; 28: 139-142.
8. Wolfe, J.M., Held, R., & Bauer, J.A. A binocular contribution to the production of optokinetic nystagmus in normal and stereoblind subjects. *Vision Research* 1981; 21: 587-590.
9. Wolfe, J.M., & Owens, D.A. Is accommodation colorblind? Focusing isoluminant contours. *Perception* 1981; 10: 53-62.
10. Wolfe, J.M., & Held, R. A purely binocular mechanism in human vision. *Vision Research* 1981; 21: 1755-1759.
11. Wolfe, J.M., & Held, R. Binocular adaptation that cannot be measured monocularly. *Perception* 1982; 11: 287-295.
12. Wolfe, J.M., & Held, R. Gravity and the tilt aftereffect. *Vision Research* 1982; 22: 1075-1078.
13. Wolfe, J.M., Held, R., & Gwiazda, J. A reply to Nachmias. *American Journal of Optometry and Physiological Optics* 1982; 59: 848.
14. Wolfe, J.M. Hidden visual processes. *Scientific American* 1983; 248: 94-103.
15. Wolfe, J.M., & Held, R. Shared characteristics of stereopsis and the purely binocular process. *Vision Research* 1983; 23: 217-227.
16. Wolfe, J.M., Gwiazda, J., & Held, R. The meaning of non-monotonic psychometric functions in the assessment of infant preferential looking acuity. *Vision Research* 1983; 23: 917-920.

17. Wolfe, J.M. Influence of spatial frequency, luminance, and duration on binocular rivalry and abnormal fusion of briefly present, dichoptic stimuli. *Perception* 1983; 12: 447-456.
18. Wolfe, J.M. Afterimages, binocular rivalry, and the false fusion phenomenon. *Perception* 1983; 12: 439-445.
19. Wolfe, J.M. Reversing ocular dominance and suppression in a single flash. *Vision Research* 1984; 24: 471-478.
20. Wolfe, J.M. Global factors in the Hermann grid illusion. *Perception* 1984; 13: 33-40.
21. Wolfe, J.M. Short test flashes produce large tilt aftereffects. *Vision Research* 1984; 24: 1959-1964.
22. Owens, D.A., & Wolfe, J.M. Accommodation for flickering stimuli. *Ophthalmological Physiological Optics* 1985; 5: 291-296.
23. Wolfe, J.M., & O'Connell, K.M. Fatigue and structural change: Two consequences of visual pattern adaptation. *Investigative Ophthalmology and Visual Science* 1986; 27: 538-543.
24. Wolfe, J.M. Stereopsis and binocular rivalry. *Psychological Review* 1986; 93: 269-282.
25. Wolfe, J.M. Briefly presented stimuli can disrupt constant suppression and binocular rivalry suppression. *Perception* 1986; 15: 413-417.
26. Wolfe, J.M. Measurement of chromatic aberration of the human eye: A fast and simple method. *Clinical Vision Science* 1987; 1: 281-286.
27. Wolfe, J.M., & O'Connell, K.M. Adaptation of the resting state of accommodation: Dark and light field measures. *Investigative Ophthalmology and Visual Science* 1987; 28: 992-996.
28. Wolfe, J.M. The vernier aftereffect. *Perception* 1987; 16: 593-597.
29. Wolfe, J.M. Parallel ideas about stereopsis and binocular rivalry. A reply to Blake and O'Shea. *Psychological Review* 1988; 95: 155-158.
30. Wolfe, J.M. & Franzel, S.L. Binocularity and visual search. *Perception and Psychophysics* 1988; 44: 81-93.
31. Wolfe, J.M., Cave, K.R., & Franzel, S.L. Guided Search: An alternative to the Feature Integration Model for visual search. *Journal of Experimental Psychology: Human Perception and Performance* 1989; 15: 419-433.
32. Cave, K.R., & Wolfe, J.M. Modeling the role of parallel processing in visual search. *Cognitive Psychology* 1990; 22: 225-271.
33. Wolfe, J.M., & Pokorny, C.W. Inhibitory Tagging in Visual Search: A failure to replicate. *Perception and Psychophysics* 1990; 48: 357-362.
34. Wolfe, J.M. Complexity, guided search, and the data. *Behavioral and Brain Sciences* 1990; 13(3): 457-458.

35. Wolfe, J.M., Yu, K.P., Stewart, M.I., Shorter, A.D., & Cave, K.R. Limitations on the parallel guidance of visual search: Color X Color and Orientation X Orientation conjunctions. *Journal of Experimental Psychology: Human Perception and Performance* 1990; 16: 879-892.
36. Newman, N.J., Wolfe, J.M., Stewart, M.I., & Lessell, S. Binocular visual function in patients with a history of monocular optic neuritis. *Clinical Vision Science* 1991; 6(2): 95-107.
37. Wolfe, J.M., Friedman-Hill, S.R., Stewart, M.I., & O'Connell, K.M. The role of categorization in visual search for orientation. *Journal of Experimental Psychology: Human Perception & Performance* 1992; 18(1): 34-49.
38. Wolfe, J.M., Yee, A., & Friedman-Hill, S.R. Curvature is a basic feature for visual search tasks. *Perception* 1992; 21: 465-480.
39. Wolfe, J.M. "Effortless" texture segmentation and "parallel" visual search are not the same thing. *Vision Research* 1992; 32(4): 757-763.
40. Wolfe, J.M., & Friedman-Hill, S.R. On the role of symmetry in visual search. *Psychological Science* 1992; 3(3): 194-198.
41. Wolfe, J.M., & Friedman-Hill, S.R. Visual search for oriented lines: The role of angular relations between targets and distractors. *Spatial Vision* 1992; 6(3): 199-208.
42. Wolfe, J.M. The parallel guidance of visual attention. *Current Directions in Psychological Science* 1992; 1(4): 125-128.
43. Wolfe, J.M. Talking to yourself about *What is Where*. What is the vocabulary of preattentive vision? Commentary on Jackendorf and Landau. *Behavioral and Brain Sciences* 1993; 16(2): 254-255.
44. Ishiguchi, A., & Wolfe, J.M. Asymmetrical effects of crossed and uncrossed disparity on stereoscopic capture. *Perception* 1993; 22: 1403-1413.
45. Cave, K.R., Pinker, S., Giorgi, L., Thomas, C.E., Heller, L.M., Wolfe, J.M., & Lin, H. The representation of location in visual images. *Cognitive Psychology* 1994; 26: 1-32.
46. Wolfe, J.M. Guided Search 2.0: A revised model of visual search. *Psychonomics Bulletin and Review* 1994; 1(2): 202-238.
47. Wolfe, J.M., Friedman-Hill, S.R., & Bilsky, A.B. Parallel Processing of Part/Whole Information in Visual Search Tasks. *Perception and Psychophysics* 1994; 55(5): 537-550.
48. Wolfe, J.M. The pertinence of research on visual search to radiologic practice. *Academic Radiology* 1994; 2: 74-78.
49. Wolfe, J.M. Visual search in continuous, naturalistic stimuli. *Vision Research* 1994; 34(9): 1187-1195.
50. O'Shea, R.P., Blake, R., & Wolfe, J.M. Binocular rivalry and fusion under scotopic luminances. *Perception* 1994; 23: 771-784.

51. Bilsky, A.A., & Wolfe, J.M. Part-whole information is useful in size X size but not in orientation X orientation conjunction searches. *Perception and Psychophysics* 1995; 57(6): 749-760.
52. Chun, M.M., & Wolfe, J.M. Just say no: How are visual searches terminated when there is no target present? *Cognitive Psychology* 1995; 30: 39-78.
53. Friedman-Hill, S.R., & Wolfe, J.M. Second-order parallel processing: Visual search for the odd item in a subset. *J. Experimental Psychology: Human Perception and Performance* 1995; 21(3): 531-551.
54. Wolfe, J.M., & Bennett, S.C. Preattentive Object Files: Shapeless bundles of basic features. *Vision Research* 1997; 37(1): 25-44.
55. Wolfe, J.M., O'Neill, P.E., & Bennett, S.C. Why are there eccentricity effects in visual search? *Perception and Psychophysics* 1998; 60(1): 140-156.
56. Wolfe, J.M. What do 1,000,000 trials tell us about visual search? *Psychological Science* 1998; 9(1): 33-39.
57. Horowitz, T.S., & Wolfe, J.M. Visual search has no memory. *Nature* 1998; 394: 575-577.
58. Wolfe, J.M., Klempen, N.L., & Shulman, E.P. Which End is Up? Two representations of orientation in visual search. *Vision Research* 1999; 39(12): 2075-2086.
59. Wolfe, J.M. & Cave, K.R. The psychophysics of the binding problem. *Neuron* 1999; 24(1): 11-17.
60. Wolfe, J.M., Alvarez, G., & Horowitz, T. Attention is fast but volition is slow. *Nature* 2000; 406: 691.
61. Wolfe, J.M., Klempen, N.L., & Dahlen, K.A. Post-attentive vision. *Journal of Experimental Psychology: Human Perception and Performance* 2000; 26(2): 693-716.
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64. Wolfe, J.M. Asymmetries in Visual Search: An Introduction. *Perception and Psychophysics* 2001; 63(3): 381-389.
65. Royden, C.S., Wolfe, J., & Klempen, N. Visual search asymmetries in motion and optic flow fields. *Perception and Psychophysics* 2001; 63(3): 436-444.
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