

PART I: General Information

PREPARED: August, 2009

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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		Senior Lecturer ,	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
- 2006-2009 Member of the Panel on Soldier Systems (Army Research Lab Technical Assessment Board - National Academy of Sciences)
- 2007-2008 Member of the Neuroscience Group of the Panel on Soldier Systems (Army Research Lab Technical Assessment Board - National Academy of Sciences)
- 2009- Army Research Lab Technical Assessment Board (National Academy of Sciences)
- 2009- National Academy of Sciences – Chair of the Panel on Soldier Systems (Army Research Lab Technical Assessment Board)

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	
Steering Committee: Center for Advanced Medical		

Imaging (CAMI) – BWH/Radiology 2008

Professional Societies

- President: Eastern Psychological Association (2001-2002)
APA Div 3 – elected President 2009 (term 2010-11)
- Board of Directors: Eastern Psychological Association (1996-1999)
- Exec. Committee: APA Div 6 (1997-1999), APA Div 1 (2004-5)
APA Div 3 – elected, Member-at-Large, 2008-2009
- 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), APA-Div 3 (Program Chair, 2008)
- 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

Current Organization Membership:

- 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

- Editor Attention, Perception and Psychophysics (2008-date)
(previously Perception and Psychophysics)
- Editorial Board J. Exp. Psychol.: General (2007-2009)
- 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 (1996-2006)
 Advisor: MIT Press (1996-2001?)
 Editorial Board: Psychological Science (2009-2011)

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 Am. Assoc. for the Advancement of Science	2002
Honorary Masters of Arts, Harvard U.	2003
Distinguished Scientific Contribution, New England Psychological Association	2009

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 BRSG 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.
- 12/86 - 7/05 NIH - NEI (R01 EY05087) (PI)
Psychophysical Structure of Human Vision
- 8/03-7/07 NIMH (RO1-MH065576) (Horowitz-PI, Wolfe-Investigator) Control of
Dynamic Attention
- 9/04-9/06 NIH (F32 EY016387) (Wolfe = Sponsor)
Serial and parallel processing in visual perception
(Post-doctoral fellowship for David Fencsik)
- 6/93 - 11/08 Air Force Office of Scientific Research (AFOSR) (PI)
Toward Guided Search 4.0
- 9/98 - 11/08 NIMH (RO1 - MH56020) (PI)
Post-Attentive Vision
- 10/06 -11/08 Dept of Homeland Security
Science and Technology (S&T) Directorate
Grant Number 06-G-017
Visual Dimensions of the Explosive Detection Screener Task

Current Funding

1/02-present	Dept of Homeland Security (02-G-010) (PI) Science and Technology (S&T) Directorate (previously US Dept of Transportation, FAA) Self-regulation of visual search behavior Current year TDC: \$201,770
8/1/03-present	R01 MH065576 (Horowitz) NIH-NIMH Control of Dynamic Attention Total current award: \$150,000
4/07 - present	RO1 EY17001 (Wolfe) NIH-NEI Prevalence effects in visual search: Theoretical and practical implications Current year TDC: \$236,132
6/09 – present	2009p001253 Office of Naval Research (PI: Neibur, Johns Hopkins, subcontract PI: Wolfe) Figure-Ground Processing Saliency and Guided Attention for Analysis of Large Natural Scenes Current year TDC: \$56,000

C. Major Current Research Interests

Work in the laboratory can be broken into four 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 including studies of how to terminate searches without finding the target.
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. Studies of visual search as they apply to Airport Security and Medical Screening. How can knowledge about fundamental properties of human vision and attention be used to improve performance in complex, applied visual search tasks. One particular interest is in the impact

of target prevalence. How does search performance change if targets are very rare (as in screening tasks)

C. Teaching

Narrative - on request

1. Local Contributions

Current Courses

	Title	
MIT	SP.318 Introduction to Psychology 35 students (Concourse)	Fall, 2008
Harvard	PSY1150 Perception 6 students	Fall, 2007, 2008
 <i>Course in a 4-year rotation</i>		
MIT	Madness and Literature 30 students (Concourse)	Spring, 2001, 2005, 2009 w/ Chris Sawyer-Laucanno w/ John Hildebidle '09
MIT	Memory and Literature Psychology and Literature 10 Students (06)	Spring, 2002,2006 w/ Chris Sawyer-Laucanno ('01) Kathlen MacArthur ('05)
MIT	Reading and Writing the Essay Psychology and Literature (Disgust) 36 students (Concourse)	Spring, 2003 w/ Chris Sawyer-Laucanno
MIT	Love and Agresssion Psychology and Literature 20-35 students (Concourse)	Spring, 2004, 2008 w/ Chris Sawyer-Laucanno '04 w/ Wyn Kelley '08
MIT	Permission and Prohibition Psychology and Literature 20 students (Concourse)	Spring, 2007 w/ Wyn Kelley

Courses not currently taught

MIT	SP.330 Psychology and Free Will 35 students (Concourse)	Fall, 2007
MIT & Harvard	Introduction to Psychology Undergraduate	1981 to 2008

Note: The audio recordings of lectures from Introduction to Psychology (MIT, 9.00) are posted on MIT's OpenCourseware site and have been in the top 10 on iTunesUniversity (iTunesU) for most of 2007-2008.

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 about 15 students	Spring '94
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 or two students mentored each summer (1998-date).

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

Doctoral or Thesis 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)
 Todd Herrington (Harvard)
 Ramakrishna Chakravarthi (Harvard)
 Serena Butcher (Harvard)
 Justin Wood (Harvard)
 Michelle Greene (MIT)
 Barbara Hidalgo-Sotelo (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 Assoc. Prof. – MIT
 Nayantara Santhi (2000 - 2002) U. Surrey, Guilford, UK
 Melina Kunar (2003 - 2006) Now Lecturer in Psychology, Warwick, UK
 David Fencsik (2003 -2007) Asst. Prof, Cal. State East Bay
 Evan Palmer (2003 - 2007) Asst. Prof, Wichita State, Kansas
 Anina Rich (2005 - 2007), Asst. Prof., MACCS, Macquarie U, Sydney, NSW, Australia
 Piers Howe (2007 –
 Ricardo Pedersini (2007 –
 Karla Evans (2007 –
 Ester Reijnen (2008 – 2009)
 Yair Pinto (2008 –
 Michelle Greene (2009 –
 Melissa Vo (2009 –
 Trafton Drew (2010 -

Research Fellows

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

Research Associates

Todd Horowitz (1999-) Instructor, Harvard Med

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

Visiting Scientists

Aline Bompas (2001) – Paris, France

Ester Reijnen (Sept-Nov, 2006) U. Basel, Switzerland

Yair Pinto (Dec, 2006 - June, 2007, 2009-2010) U. Amsterdam

Michael Zehetleitner (Mar-May, 2009) U. Munich

Patricia Graf (Mar – Sep, 2009), U Munich

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)

Analogic Corporation (6/05)	Northeastern U (9/05)
U Houston (11/05)	York U (Toronto) (1/06)
BWH (radiology) (1/06)	Harvard (2/06)
MIT (3/06)	W. Conn. State (3/06)
Princeton (3/06)	Siemens (NJ) (3/06)
MGH(Cytopathology) (5/06)	CalTech (1/07)
Mitsubish, Cambridge, MA (1/07)	Harvard U (IIC) (2/07)
Colorado, Boulder (2/07)	Berkeley, CA (4/07)
UC Davis (4/07)	Oxford, UK (9/07)
Novartis, Cambridge, MA (9/07)	UT Austin (10/07)
U Toronto (1/08)	Analogic Corp, Peabody, MA (1/08)
Columbia U. (2/08)	U. Minn (4/08)
Vanderbilt U, Nashville, TN (6/08)	BWH (Radiology) (8/08)
BWH (Women's Imaging) (9/08)	Schepens Eye Res (MA) (9/08)
Mass Eye&Ear (MA) (1/09)	Columbia (1/09)
NAS False Alarm EDS meeting, San Francisco (2/09)	
National Geospatial Agency visual search meeting, Airlie, VA (2/09)	
Queen's U (Kingston, Ont) (2/09)	NYU (4/09)
U. Copenhagen (7/09)	

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. - Istituti 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 blinks 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
- 2006 talk Searching the Cytological Sample. Invited - Annual meeting of the UK National Association of Cytologists, York, UK April 22, 2006
- 2006 co-author Attentional time-sharing in multiple object tracking Todd S. Horowitz, Jeremy M. Wolfe, George A. Alvarez, & David E. Fencsik
Invited Symposium talk – Vision Sciences Society, Sarasota, FL, May 5, 2006
- 2006 talk Changing your mind: Psychophysical measurement of the top-down and bottom-up contributions to the guidance of visual attention. Invited Symposium talk – Vision Sciences Society, Sarasota, FL, May 5, 2006
- 2006 talk Prevalence effects in visual search: If you don't find it often, you often don't find it. Invited talk – MACCS Visual Cognition Meeting, Macquarie U, Sydney, NSW, Australia, June 1-2, 2006
- 2006 talk Selective and non-selective pathways in visual search and scene perception.

- Invited talk – Bio-Inspired Scene Understanding Using a Network of Disparate Sensors, Office of Naval Research, Arlington, VA, , July 25-26, 2006
- 2007 talk Guidance of visual search by unlocalized scene properties Invited talk MIT Scene Understanding Seminar (SUNS07), MIT, Cambridge, MA, Feb, 1-2, 2007
- 2007 talk How do we see what we "see". Ultrasound/Women's Imaging Course, Westin Hotel, Boston, May 2, 2007
- 2007 keynote Capturing the user's attention: Insight from the study of human vision. UIST (ACM Symposium on User Interface Software and Technology) , Newport, RI, Oct. 9, 2007.
- 2008 talk Highly Efficient Search for Arbitrary Objects in Natural Scenes Invited talk MIT Scene Understanding Seminar (SUNS07), MIT, Cambridge, MA, Feb, 1, 2008
- 2008 talk The Puzzling Relationship of Attention and Awareness: The View from Étienne Bonnot de Condillac's Château, Invited talk at Vision, Attention and Emotion Symposium at the Italian Academy of Columbia U, NYC, March 25, 2008
- 2008 talk Hiding in plain sight: Visible information that you can't find. Visualization in the World symposium, Charlotte Visualization Center, U. North Carolina, Chapel Hill, April 24-25, 2008.
- 2008 keynote Modeling visual search in real scenes: What will it take? Firbourg/Munich Visual search symposium, Murten, Switزرland, July 16-19, 2008
- 2008 talk Classical and non-classical guidance of attention in visual search. International Congress of Psychology, Berlin, July 22-25, 2008
- 2008 talk The role of memory in visual search. APA annual meeting, Boston, Aug. 14-17, 2008
- 2008 talk Perceptual Learning, Motor Learning and Automaticity, Amsterdam, Dec. 8-12, 2009 (At the last minute, I was giving a talk, rather than just chair a session).
- 2009 talk Search in real scenes: The latest mysteries, the latest clues. Invited talk MIT Scene Understanding Seminar (SUNS09), MIT, Cambridge, MA, Jan 30, 2009

- 2009 talk The human in the loop. Invited talk Algorithm Detection for Security Applications. Northeastern U., Boston, MA April 23, 2009
- 2009 talk Perception: How we “see” things. Invited talk American Roentgen Ray Society 2009 Annual Meeting, Boston, MA, April 29, 2009
- 2009 talk Human in the loop: Invited talk: American Society of Neuroradiology meeting, Vancouver May 16-21, 2009
- 2009 talk If you don’t find it often, you often don’t find it: The role of target prevalence in visual search tasks. Invited talk: Harvard Medical School Department of Ophthalmology, 2009 Update on Ophthalmology, June 20, 2009

3. Teaching Awards

1989 Baker Memorial Prize (Undergraduate Teaching: MIT)

4. Leadership Roles Related to Teaching

1980s: I created to the Program in Psychology at MIT, an umbrella organization that brought together faculty from a number of departments to provide a semblance of an undergraduate education in Psychology.

2007-2008: Spearheaded a project in the Teaching for Learning Network (MIT/Cambridge, UK) entitled "Integrating Topics and Disciplinary Thinking from Brain and Cognitive Science into Concourse "

PART III: Bibliography

104 Published papers, 1 in press, 11 submitted, 1 textbook, 25 book chapters, 30 other publications, 245 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.

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