

Jeremy M. Wolfe
Professor of Ophthalmology and Radiology
Harvard Medical School

Office Address:

Visual Attention Lab
Brigham & Women's Hospital
65 Landsdowne St, 4th floor
Cambridge, MA 02139 USA

Telephone: 617-768-8818

email: jwolfe@bwh.harvard.edu

URL: search.bwh.harvard.edu

Linked-in: <https://www.linkedin.com/in/jewolfe/>

Facebook: <https://www.facebook.com/jeremy.m.wolfe>

Education:

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

Doctoral Thesis: *On Binocular Single Vision*, advisor: Richard Held

Academic Appointments:

2010 to present	Professor of Radiology, Harvard Medical School
2003 to present	Faculty Affiliate, Division of Sleep Medicine, Harvard Medical School
2002 to present	Professor of Ophthalmology (with tenure), Harvard Medical School
1991 - 2002	Associate Professor of Ophthalmology, Harvard Medical School
1988 - 1991	Class of 1922 Associate Professor, Massachusetts Institute of Technology
1987 - 1991	Associate Professor, Brain and Cognitive Sciences, Massachusetts Institute of Technology
1983 - 1987	Assistant Professor, Department of Psychology/Brain and Cognitive Sciences, Massachusetts Institute of Technology
1981 - 1983	Lecturer, Department of Psychology, Massachusetts Institute of Technology

Hospital Appointments:

2010 to 2017 (?)*	Director, Center for Advanced Medical Imaging (CAMI), Brigham and Women's Hospital/Radiology
-------------------	--

2010 to present Director, Visual Attention Lab, Brigham and Women's Hospital/Surgery
 1991 - 2010 Director of Psychophysical Studies, Center for Clinical Cataract Research, Brigham and Women's Hospital/Surgery
 1991 to present Psychophysicist, Brigham and Women's Hospital/Surgery

Other Appointments:

2018 - Visiting Professor in Medical Radiation Sciences within the Faculty of Health Sciences, U. Sydney, Australia
 2011 - 2014(?)* Adjunct Professor, Center for Computational Neuroscience and Neural Technology, Boston University
 2002 - 2014(?)* Senior Lecturer, MIT, Department of Brain & Cognitive Science
 2011 - 2014 Honorary Professor, University of Sydney (Australia), Faculty of Health Sciences
 2003 - 2011 Adjunct Professor, Boston University, Center for Neural Systems
 1993 - 2003 Adjunct Associate Professor, Boston University, Center for Neural Systems
 1993 - 1994 Visiting Associate Professor, Brown University, Department of Cognitive Science
 1991 - 2002 Visiting Associate Professor, MIT, Department of Brain & Cognitive Science
 1991 - 1992 Visiting Associate Professor, Wellesley College, Department of Psychology

* Not entirely clear when the appointment ended

Honors and Awards:

2019 Elected to American Academy of Arts and Sciences
 2011 Keynote Address, Asian Conference on Visual Perception (Hong Kong)
 2011 Fellow of the American Psychological Association (Division 21)
 2010 Keynote Address, Association for Psychological Science
 2009 Fellow of the Eastern Psychological Association
 2009 Distinguished Scientific Contribution, New England Psychological Association
 2003 Honorary Masters of Arts, Harvard University
 2002 Fellow of American Association for the Advancement of Science (AAAS)
 2002 Fellow of the American Psychological Society
 2002 Fellow of the American Psychological Association (Division 1)
 2001 Elected to Society of Experimental Psychologists
 1997 Fellow of the American Psychological Association (Division 3)
 1995 Fellow of the American Psychological Association (Division 6)
 1989 Baker Memorial Prize for Undergraduate Teaching, Massachusetts Institute of Technology
 1988 Class of 1922 Professorship, Massachusetts Institute of Technology
 1977 Phi Beta Kappa, Princeton University
 1977 Summa Cum Laude, Princeton University

Professional Leadership:

- 2015-2019 Board Member, Vision Sciences Society
 2014-2019 President-Elect, President, Past-President of the Federation of Associations in Behavioral & Brain Sciences (FABBS)
 2010-2019 Board Member, Federation of Associations in Behavioral & Brain Sciences (FABBS)
 2013-2015 Psychonomic Society: Chair 2014; Chair-Elect 2013;
 2010-2015 Psychonomic Society: Governing Board 2010-2015; Finance Committee 2010-2011; Membership Committee 2011-2013; Communication Committee 2013- present, Nomination Committee, 2015
 1997-2011 American Psychological Association (APA): President of Division 3, 2010-2011; Member of the Executive Committee and Program Committee Chair for Division 3 in 2008, for Division 1 in 2004, for Division 6 in 1997-1998
 1988-2002 Eastern Psychological Association: President 2001-2002; Board of Directors 1996-1999; Program Committee 1988-1991

Editorial Boards:

- 2018-2020 Treisman Special Issue Editor, Attention, Perception and Psychophysics
 2015 – Founding Editor, Cognitive Research: Principles and Implications
 2015 Editor for the 2015 issue of Policy Insights from Behavioral and Brain Sciences (PIBBS)
 2015 – Consulting Editor, Attention, Perception and Psychophysics
 2008-2015 Editor, Attention, Perception and Psychophysics (previously Perception and Psychophysics)
 2015-present Consulting Editor, Psychological Review
 2013-present Editorial Board, Behavioral Science & Policy
 2012-2013 Guest Editor: Journal of Vision
 2009-2011 Editorial Board: Psychological Science
 2007-2011 Editorial Board, Journal of Experimental Psychology: General
 2005-2012 Consulting Editor, Visual Cognition
 1998-2003 Associate Editor, Perception and Psychophysics
 1996-2000 Associate Editor, APA Encyclopedia of Psychology
 1998-2002 Editorial Advisory Board, Academic Press, Encyclopedia of the Human Brain
 2003-2008 Consulting Editor, Perception and Psychophysics (.)
 1996-2006 Editorial Board, Cognitive Science
 1993-1997 Consulting Editor, Perception and Psychophysics
 1989-1993 Editorial Board, Journal of Experimental Psychology: Human Perception and Performance
 1991 Consulting Editor, Spatial Vision and Guest Editor for Special Issue in Honor of Bela Julesz
 1996-2001 Advisor, MIT Press
 1994-2001 Book Review Editor, Perception

Professional Service Assignments:

External Committees, Review Panels

2017–2019	National Academy of Sciences – Member of Decadal Survey of Social and Behavioral Sciences for Applications to National Security
2014	External Review Panel for the 2015 Grawemeyer Award in Psychology
2012 to 2018	National Academy of Sciences – Member of the Board on Behavioral, Cognitive, and Sensory Sciences (BBCSS)
2010 to 2014(?)*	Menu Research and Development Advisory Council, Culinary Institute of America, Hyde Park, NY
2009 - 2013	National Academy of Sciences – Chairman of the Panel on Soldier Systems (Army Research Lab Technical Assessment Board)
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)
1998-2002	NIH - Member of Visual Sciences B (VISB) review panel
	ad hoc grant reviews for: NIH, NIMH, NSF, AFOSR, HFSP, NSERC (Canada), SERC (United Kingdom), ISF (Israel), BSF (Israel), and NIMH-SEP

Internal University Service:

2010 to present	Subcommittee on Promotions and Reappointments of the Executive Committee of the Department of Ophthalmology, Harvard Medical School
2008 to 2017 (?)	Steering Committee: Center for Advanced Medical Imaging (CAMI) – Brigham and Women’s Hospital/Radiology
1998-1999	Low Vision Search Committee, Schepens Eye Research Institute
1990-1991	President, MIT Phi Beta Kappa chapter
1989-1991	Advisor to Student Peer-Counseling Hotline, MIT
1988-1989	Faculty Fellow, MacGregor dormitory, MIT
1987-1991	Founder and Chair: MIT Program in Psychology
1986-1987	Committee on HASS-distribution courses outside the School of Humanities, Arts, and Social Sciences, MIT
1985-1988	Committee on Curricula, MIT
1984-1991	Steering Committee of the Cognitive Science major, MIT
1981-1991	Freshman Advisor including Advisor Seminars 1988-1990, MIT

Current Membership in Professional Societies

American Academy of Arts and Sciences (Elected)

Psychonomic Society (Fellow)
 American Psychological Association (Fellow - Divisions 1, 3, 6, 21)
 American Psychological Society (Fellow)
 Eastern Psychological Association (Fellow)
 Society for Experimental Psychology (elected member)
 American Association for the Advancement of Science (Fellow)
 Radiological Society of North America (RSNA)
 Vision Sciences Society

Other National Boards

2012-present	At-Large Member of the North American Board of the Union for Reform Judaism
2015-present	East District Chair & Member of the Oversight Committee of the North American Board of the Union for Reform Judaism

Research Funding:

According to NIH Reporter, my total NIH funding since 1998 is \$8,601,417. Obviously, that does not include funding before 1998 or the non-NIH grants.

RO1 EY017001 (Wolfe, PI)	4/1/07-10/30/19
NIH-NEI	\$397,826 (current year)

Prevalence effects in visual search: Theoretical and practical implications

The proposed research has three specific aims: 1) human foraging research, 2) studies of hybrid memory and visual search tasks in basic search and radiological settings and 3) to test theoretically and clinically motivated strategies to reduce miss errors related to the low prevalence of targets in applied search settings (e.g. cancer screening).

To identify the fundamental limitations of the human visual attention system that can produce errors in complex threat detection tasks. Specifically, to provide a novel description of capacity limitations that govern human monitoring of sustained dynamic scenes,

RO1 CA207490 (Wolfe, PI)	09/06/16 - 08/31/21
NIH-NCI	\$154,528 (TDC current year)

Improving Perception in Digital Breast Tomography

Digital Breast Tomosynthesis (DBT) is a new 3-dimensional breast cancer imaging modality that has better sensitivity and specificity than 2-dimensional digital mammography. Reading the tomosynthesis images requires that radiologists develop new search strategies that may differ from their optimized 2-D strategy for Full Field Digital Mammography (FFDM), so that they can read efficiently and accurately. The medical image perception experiments in this proposal will address the lack of knowledge about optimal search strategies and will lead

to recommendations for low-cost interventions that can improve the use of DBT and, thus, the effectiveness of breast cancer screening.

NSF 1848783

*Nation Science Foundation
Multiple Object Awareness*

8/1/19 - 7/30/22

\$ 83,799 (TDC Current Year)

MOA is a simple modification of the basic Multiple Identity Tracking (MIT) task. Os observe a set of moving cartoon animals. They are asked to keep track of all of them as best they can. Every so often, we cover all items with disks and ask about the location of a specific animal. The crucial innovation is that we ask Os to keep clicking on disks until they find the target animal. If you are guessing, you need to click on half the items on average. If you have some idea about the target location, you need fewer clicks. Based on the number of clicks required, it is possible to derive a MOA capacity estimate of 8-12 items, far greater than MOT or MIT.

Our specific plans are: (1) To screen a large population in order to test the hypothesis that MOA will show a wider natural range of variation than MOT or working memory (WM), (2) to test the hypothesis that MOA is trainable in ways that MOT and WM are not, and (3) to determine if MOA training in the lab transfers to a real-world setting.

*NIH-NCI via Westat, Inc (Wolfe, PI)
RSNA Medical Image Perception Lab*

4 annual awards 03/31/2016 - 06/15/2020

\$45,863.57 (TDC Current Year)

Radiologists routinely perform difficult and highly complex perceptual tasks. Perceptual research on understanding how radiologists accomplish these tasks can help improve radiological practice and reduce errors. However, radiologists are generally difficult to recruit for perceptual studies, as they tend to be very busy and their time is at a premium. The annual RSNA meeting brings together over 20,000 professional radiologists & trainees. If a fraction of the radiologists in attendance contributed 30 minutes of their time, that would be hundreds of hours of data collection; potentially a major contribution to medical image perception research. There are many perceptual laboratories that are interested in this field, but few have access to enough expert radiologists to conduct adequately powered studies. The purpose of this activity is to coordinate the Perception Lab at the RSNA annual meeting and to publicize its results.

GE 2019A010980

*General Electric Corporation
The Use of Coronal Views in Breast Cancer Screening with ABUS (Automated Breast Ultrasound)*

8/15/19-8/15/20

\$61,435.00 (TDC Current Year)

ABUS (Automated Breast Ultrasound) is a breast imaging methodology that is particularly useful for women with dense breasts. In this study, we will eye track radiologists as they read ABUS cases. There are four specific questions.

- 1) Where do observers spend their time (e.g. coronal vs axial views)?
- 2) What strategies do readers use when reading the stack of coronal views?

- 3) Are there differences in time and/or accuracy related to viewing strategy?
- 4) How does oculomotor behavior relate to self-reports of strategy?

NOTE: Since this is a 'natural history' study, new questions may arise as we see the data.

Past Funding:

- 2/82 - 2/83 NIH 1 RO3 EY04297-01 False Fusion and Binocular Vision, **Wolfe PI**
- 12/83 - 11/86 NIH (1 R01 EY5087) Binocular Perception Despite Stereodeficiency, **Wolfe PI**
- 3/85 - 2/88 Lighting Research Institute (85:SP:5)
Focusing the Eyes: Sensory and Adaptive Properties of Accommodation
Wolfe, PI
- 7/85 - 6/87 Whitaker Health Sciences Fund
Basic Problems and Health-Related Issues in Human Vision
Wolfe, PI
- 4/84 - 3/88 BRSG spell out via MIT, Normal and Abnormal Binocular Human Vision
Wolfe, PI
- 2/88 - 1/89 Educational Foundation of America
Psychophysical evaluation of a model of motion perception
Wolfe Co-Investigator with E. Adelson
- 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 spell out - Perception of surface properties of objects.
(Collaboration among 5 PIs: P Jolicoeur - director, S Kosslyn,
L. Chen, G. Humphreys, W. Cowan, **J.M. Wolfe**)
- 9/97 - 9/00 NSF SBR-9710498 Post-Attentive Vision; **Wolfe, PI**
- 7/94 - 7/99 NIH - NHLBI (RO1 - HL52992)
Bright light treatment of shift rotation insomnia
C. Czseisler, PI; **Wolfe, Investigator**
- 9/99 - 9/02 NIH - NORA ; Circadian adaptation to night work in older people.
C. Czseisler, PI; **Wolfe, Investigator**

12/86 - 7/05	NIH - NEI (R01 EY05087); Wolfe, 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) Wolfe, PI Toward Guided Search 4.0	
9/98 – 11/08	NIMH (RO1 - MH56020) Wolfe, PI Post-Attentive Vision	
10/06 -11/08	Dept of Homeland Security Science and Technology (S&T) Directorate Grant Number 06-G-017, Wolfe, PI Visual Dimensions of the Explosive Detection Screener Task	
10/09 - 9/10	Harvard Catalyst, Schaumberg, PI; Wolfe, Investigator Developing a psychophysical test for dry eye.	
9/09 - 9/12	NIH – NEI (3R01EY017001-03S1) Wolfe, PI ARRA-NIH-NEI National Eye Institute Supplement to: Prevalence effects in visual search: Theoretical and practical implications	
7/03-6/11	NIH-NIMH (R01 MH065576) Horowitz-PI; Wolfe, Investigator Control of Dynamic Attention	
9/09-12/12	Toshiba Corporation, Seltzer-PI, Wolfe- section PI Novel display strategies for lung nodule detection from CT scans. \$100,000	
12/12-11/15	NIH NRSA# 1F32EY022558-01A1 Post-doctoral fellowship: Melissa Vo; Wolfe, Sponsor , ended early, 6/14, when Melissa Vo took a faculty position.	
01/12-12/14	Google Corporation, Wolfe-PI Rules of visual foraging and visual search	\$71,000
11/13-11/14	Hewlett-Packard: HP Labs, Wolfe-PI Next Generation Software and Visualization	\$100,000
11/1/09-10/31/15	Office of Naval Research	\$573,356

Figure-Ground Processing, Saliency and Guided Attention for Analysis of Large Natural Scenes

1/1/13-12/31/15 National Geospatial Agency. HM0177-13-1-0001_P00001 Wolfe –PI
Enhancing Visual Search by GEOINT Analysts \$ 398,576

3/1/13-2/28/16 NSF SMA-0835976 (PI – Shinn-Cunningham, Boston University, Sub-
contract-Wolfe, CELEST: A Center for Learning \$ 419,37

2/23/16 – 2/22/18 U.S. Army Natick Soldier Research, Development and Engineering Center
(NSRDEC) (Wolfe, PI) Visual Search with Augmented Reality Information W911QY-16-2-
0003 \$1,244,671.53 (total costs, all years)

07/01/2015 – 06/30/2019 Army Research Office (Wolfe – Co-I, Trafton Drew, Utah, PI)
R00000000000588 Attentional support for visual search and surveillance
TDC: \$272,514

Major Current Research Interests

Work in the laboratory can be broadly divided into Basic and Clinical/Applied topics unified by a general interest in fundamental processes vision and visual attention. We use a variety of methodologies but we are primarily a human behavioral lab using psychophysical methods.

Basic Research

1. Preattentive vision - Studies of the processing of visual stimuli before they are selected by attention for further, more complete analysis. This includes studies of the fate of stimuli that are never selected for attentional scrutiny.
2. Attentional deployment - Studies of the mechanisms by which attention selects specific items. We have a long-standing interest in the guidance of attentional deployment by preattentive information and an interest in the temporal dynamics of search including studies of how to terminate searches when no target can be found. The theoretical core of work in this lab area is our Guided Search model.
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? These topics, in turn, connect to questions concerning memory for visual stimuli.
4. Searching scenes – How do humans search complex real world scenes for real objects? How does knowledge of the structure and meaning of scenes guide attention?
5. Extended search – Most laboratory search tasks are structured in a series of “trials” lasting a second or so where observers look for one target. Real world search tasks (e.g. shopping) may involve search for multiple instances (“foraging”) of multiple target types

(“hybrid search”). Moreover, continuing with the same example, the observer may move, changing the search scene. How do the rules from single trial search apply in these more extended search and foraging tasks? What new rules do we need to account for extended search behavior?

6. Non-selective vision – Some aspects of visual processing do not appear to require selection of individual objects by attention. Sometimes this is called “gist”, “gestalt”, or “holistic” processing. Whatever its name, we believe that this is the product of a “non-selective” processing pathway in the visual system, operating in parallel with the selective, attentionally-bottlenecked pathway that permits object recognition.

Clinical and Applied Research

Our civilization has created a host of socially important visual tasks that can be seen as difficult visual searches through complex artificial scenes. Our basic science can be applied to these tasks and, in turn, the specific demands of these tasks stimulate new basic scientific questions.

7. Medical screening – Medical image perception poses a wide variety of visual search problems. For example, screening tasks like mammography or cervical cancer screening are visual search tasks for very low prevalence targets. Having studied the effects of low prevalence in the lab, we now study them in medical settings. We have a particular interest in the effects of prevalence on errors and on the interaction of prevalence effects with Computer Aided Detection (CAD) systems.
8. Airport security – Like medical screening, airport baggage screening is low prevalence search task involving complex stimuli and a strong aversion to miss errors. We are interested in behavioral interventions and modifications of the visual stimuli that could improve performance.
9. Foraging/Extended Search – As noted above, there are numerous other tasks that involve searching massive scenes or images for what may be hard to find targets. Some of these search tasks can be characterized as foraging tasks (c.f. picking berries from a bush, satellite surveillance, or reading a whole body CT of an accident victim). Here we want to know when it is time to move to the next bush, piece of territory, or the next case given that there might always be one more target in the current stimulus.

Teaching:

Teaching Award:

1989 Baker Memorial Prize for Undergraduate Teaching, MIT

Undergraduate Teaching:

- 1981-2009 I taught Introduction to Psychology for many years at MIT and Harvard. This took many forms from the large undergraduate course (MIT 9.00) to a 30-40 person version in the MIT Concourse Program (a Freshman intensive program). Harvard versions had 100-250 students. The audio recordings of lectures from the big MIT 9.00 class were posted on MIT's OpenCourseware site in 2007 and were in the top 10 on iTunesUniversity (iTunesU) for most of 2007-2008
- 2001-2010 Psychology and Literature, offered every Spring, 10-36 students/class, co-taught with an instructor from the MIT Writing program. The course had different theme each year and was designed to satisfy MIT Humanities and Writing requirements for MIT undergraduates.
- 2007, 2008 Perception, Harvard University
- 2007 Psychology and Free Will, MIT Concourse Program (freshman intensive program)
- 1994 Human Vision, Brown University with Leslie Welch
- 1994 Visual Attention, Brown University
- 1992 Sensation and Perception, Wellesley College
- 1983-1991 Sensation and Perception (9.35) MIT
- 1980-1982 Sensation and Perception (9.35), MIT and Wellesley, with R. Held

Graduate Teaching:

- 1981-1991 Human Vision, MIT (not every year)
- 1981-1991 Visual Physiology and Psychophysics w/ P Schiller (not every year)
- 2019 One week intensive visual attention course at Goethe U, Frankfurt, Germany

A wide variety of lectures have been provided as part of team-taught graduate survey courses, as well as guest lectures in a variety of other courses, lectures to Ophthalmology residents, etc.

Graduate Students and Postdoctoral Training: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)
 Grayden Solman (U. Waterloo, Ontario, Canada)
 Thomas Z Luo (Harvard Medical School)
 Jason Daniel Rajsic (U. Toronto)
 David Levari (Harvard)

Graduate Student Supervision as Advisor: Note that the Ophthalmology and Radiology departments at Harvard Medical School do not have PhD programs, so opportunities to serve as the primary advisor for doctoral students are severely limited.

Gregory Gancarz (Boston University, 1993-1996)
 Jeff Doon (Boston University, 2010-2013, Ennio Mingolla – Primary Advisor)
 Jinxia Zhang (2012 – 2014), visiting from Nanjing University of Science and
 Technology – NUST; Primary Advisor: Jing-yu Yang)
 Bochao Zou (2015 - 2017), visiting from Beijing Institute of Technology, Beijing,
 Advisor: Prof. Yue Liu, School of Optoelectronics,

Post-doctoral Students (name, followed by current position)

Patricia O'Neill (1992 - 1995) - Professor – Western Conn. U
 Todd Horowitz (1995 - 1999) - NIH/NCI
 Gary Randall (1998 - 2000) Software development - UK
 Peter Brawn (1998 - 2000) Access Testing Centre, Sydney, Australia
 Aude Oliva (2000 - 2002) Senior Research Scientist. – MIT
 Nayantara Santhi (2000 - 2002) U. Surrey, Guilford, UK
 Melina Kunar (2003 - 2006) Assoc. Prof. in Psychology, Warwick, UK

David Fencsik (2003 -2007) Assoc. Prof, Cal. State East Bay
 Evan Palmer (2003 - 2007) Assoc. Prof, San Jose State
 Anina Rich (2005 - 2007), Asst. Prof., MACCS, Macquarie U, Sydney, NSW, Australia
 Piers Howe (2007 –2010) Asst. Prof, U. Melbourne, Melbourne, Australia
 Ricardo Pedersini (2007 – 2010) Teaching HS social science in Italy (9/20)
 Ester Reijnen (2008 – 2009) ZHAW Zürcher Hochschule für Angewandte
 Wissenschaften, Zurich, Switzerland
 Yair Pinto (2008 – 2010) Asst. Prof, University of Amsterdam
 Karla Evans (2007 – 2013) Asst. Prof. York, UK
 Michelle Greene (2009 – 2011) Asst. Prof, Bates College, Maine
 Melissa Vo (2009 – 2014), Professor, Goethe University, Frankfurt, Germany
 Trafton Drew (2010 – 2014) Asst. Prof., U. Utah
 Krista Ehinger (2013 – 2015) Senior Lecturer, U. Melbourne
 Matt Cain (2013 – 2014) Research Psychologist, NSRDEC,
 U.S. Army Soldier RD&E Center, Natick, MA
 Preeti Sareen (2013 – 2015)
 Maria Nordfang (2013 – 2014) Neuropsychologist, head of the vision and attention
 team, Department of Neurology, Rigshospitalet, Denmark
 Chia-Chen Wu (2015 –
 Farahnaz Wick (2016 –
 Iris Wiegand (2017 – 2018) Max Planck, Berlin
 Matthew Lowe (2019-2020)

Research Fellows

Constance Royden (1997) now Associate Professor - Holy Cross, Worcester, MA

Research Associates

Todd Horowitz (1999-2012) Program Director, National Cancer Inst
 Kathy O'Craven (1999-2000) was Asst. Prof. - U Toronto

Visiting Scientists (including Masters & PhD students)

Aline Bompas (2001) – DYCOG Team, Lyon Neuroscience Research Center
 Ester Reijnen (Sept-Nov, 2006) Zurich University of Applied Sciences, 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
 Maria Nordfang (Feb – Aug, 2010, March-May, 2012), U. Copenhagen
 Kazuya Ishibashi (Mar – Sep, 2010), Kobe U, Japan
 Francesca Bocca (July-Sep, 2010), U Munich
 Yasuki Noguchi (July – Sept, 2011), Kobe U, Japan
 Lisa Pfanmuller (April – Oct, 2012), U Munich
 Dejan Draskow (May – Oct, 2012, Sept-Oct, 2013), U Munich
 Kilian Semelman (Aug – Sept, 2012, April-June, 2013), U Munich
 Johan Hulleman (Oct – Dec, 2012), U. Manchester, UK
 Warren Reed (Sept – Nov, 2013), U New South Wales, Sydney, NSW, Australia

Beatriz Gil Gómez de Liaño (June-July, 2014), Universidad Autónoma de Madrid
(Summer, 2015)
 Duygu Sönmez (Feb-July, 2014) Hacettepe University, Ankara, Turkey
 Matt Thompson (July-Dec, 2014), U. Queensland, Brisbane, Australia
 Carlos Velasco Pinzon (Aug-Sept, 2014), Oxford U
 Ruggero Micheletto (Aug 2015- July 2016), Yokohama City University
 Zhe Huang (Feb 2016 – August 2016) U Munich
 Ellen Kok (April 2016 – June 2016) Maastricht University
 Longsheng Wei (Oct 2016 – Oct 2017) China University of Geosciences Wuhan City,
 Hubei Province, China
 Caroline Seidel (July2017 – October 2017), Goethe U, Frankfurt
 Erica Westenberg (July2017 – October 2017), U Munich
 Yung-Hao Yang (April 2017 – 2018) National Taiwan University, Taipei
 Nurit Gronau (Sept 2017 – Aug 2018) Open University, Israel
 Inga Korolczuk (Jan 2019 – March 2019) Bangor, Wales, UK
 Charles Ludovici (March 2019 – June 2019) U. Sydney, Australia
 Aoqi Li (March 2019 – June 2019), Wuhan U, Wuhan, China
 Raquel Colorado Cajas (Feb 2019 – June 2019) – UAM, Madrid, Spain (Undergrad)
 Leah Kumle (July 2019 – Sept 2019) – Goethe U, Frankfurt, Germany
 Daniela Gresch (July 2019 – Oct 2019) Ludwig Maximilian U, Munich, , Germany
 Laura Cruces (Feb 2020 -) UAM, Madrid, Spain
 Yke Bauke Eisma (March 2020) TUDelft, Delft, Netherlands*
 Jonathon Li (Feb – March 2020) U. Melbourne, Australia *

* Left early, due to corona virus

Outreach:

The lab routinely hosts summer students, typically from two programs:

Project Success: This is a program at Harvard Medical School to "open the door to biomedical careers" for under-represented minority High School students. My laboratory has hosted and mentored one or two students from this program every summer since 1998.

Research Science Institute of the Center for Excellence in Education: This is an international program giving research experience to talented high school students. My laboratory has hosted and mentored one or two students from this program every summer since 1996. (Three students in 2016, four in 2017).

Previously we hosted students from CELEST: an NSF-funded Science of Learning Center that was based at Boston University. CELEST ran a summer program for undergraduates with an emphasis on diversity. We hosted 1-2 students each year for several years.

Research Presentations:

A recent example (Talk at U. Trento, Italy, Feb 17, 2016) can be found at

https://www.youtube.com/watch?list=PLsBUh_gUwMHZaEcOj0dJ2-c4PbcZyhgIR&v=rk9iMdfbukE

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)
Mitsubishi, 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) Dalhousie U, Halifax, NS (9/09)
 NE Col. Optom. Boston (10/09) Boston U. (10/09)
 Johns Hopkins (2/10) Yale (3/10)
 Johns Hopkins (9/10) MGH Martinos (9/10)
 MIT (CSAIL) (9/10) Washington U, St Louis (11/10)
 Northwestern, Evanston, IL (11/10) Harvard MBB (3/11)
 Harvard Med, Nuc. Medicine (4/11) Indiana U (10/11)
 Università degli Studi di Milano-Bicocca, Milan, Italy (10/11)
 Harvard Decision Group (2/12) Northeastern U (3/12)
 Kansas State U (3/12) U. Maryland (3/12)
 Procter & Gamble, Cincinnati (5/12) Harvard Psych (6/12)
 Pathology Dept, MGH (6/12) Brandeis (9/12)
 Conn. College (9/12) U. of Arizona (1/13)
 Hewlett-Packard, Palo Alto, CA (1/13) Mich. State U (1/13)
 U. Reykjavik, Iceland (4/13) U. Copenhagen (4/13)
 U. Vienna (7/13) U. Queensland, Australia (8/13)
 U. Sydney, NSW (8/13) Macquarie U, Sydney, NSW (8/13)
 U. New South Wales (8/13) Aptima Inc, Woburn, MA (9/13)
 Brown U. (10/13) UCSD (12/13)
 Inst for Infocomm Research (I2R), Singapore (1/14)
 NUS-Duke Singapore (1/14) Concordia, Montreal (2/14)
 Kaiserslautern, Germany (3/14) Ottawa U, Ottawa (4/14)
 Free University, Amsterdam (5/14) Amazon, Seattle, WA (6/14)
 National Central University, Jhongli City, Taiwan (6/14)
 U. Louisville, KY (9/14) U. Madrid (UAM) 10/14
 Higher School of Economics, Moscow, 2 talks (10/14)
 Goethe U (Frankfurt) (2/15) U. Geneva (2/15)
 MGH, Boston (2/15) U. York, UK (7/15)
 Macquarie U, Sydney, NSW (9/15) UNSW, Sydney, NSW (9/15)
 U. Sydney, Sydney NSW (9/15) Tufts (Radiology) (9/15)
 Peking University (10/15) NYU/Shanghai (9/15)
 East China Normal U (10/15) U. Central FL (11/15)
 Pinterest, San Francisco (1/16) U. Penn, Philadelphia (2/16)
 CBMM, MIT, Cambridge, MA (3/16) ZHAW, Zurich (3/16)
 AGElab, MIT, Cambridge, MA (4/16) U. Victoria, BC (5/16)
 Simon Fraser U, BC (5/16) Wash. U, St Louis (6/16)
 U. Liverpool, UK (7/16) U. Missouri, Columbia, MO (9/16)
 U. Utah (1/17) U. Trento, Italy (2/17)
 NYU-Abu Dhabi (2/17) Philips Healthcare, Cambridge, MA (3/17)
 U. Haifa (3/17) U. Tel Aviv (3/17)
 Bar-Ilan U (3/17) Oxford U (4/17)
 Southampton U (4/17) Childrens Hospital, Boston (Kreiman) 5/17

Rice U, Houston (7/17)	IBM Watson Health (9/17)
Vanderbilt U (10/17)	Harvard, CBB (2/18)
ZHAW, Zurich (3/18)	Mass Eye and Ear, Boston (5/18)
Woods Hole, BMM course (8/18)	UWisc (10/18)
St. Vincents Hosp, Worcester, MA (10/18)	
UC Berkeley (10/18)	St. Vincents Hosp, Worcester, MA (12/18)
Max Planck Inst, Frankfurt (2/19)	U Minn (3/19)
Carnegie Mellon U (4/19)	Mt. Auburn Hospital, Cambridge, MA (6/19)
Woods Hole, BMM course (8/19)	Simon Fraser U, Vancouver – 2 talks (10/19)
U. Haifa, Israel (11/19)	Open U of Israel, Ra'anana (11/19)
U. Tel Aviv (11/19)	UC Davis (Geng/Zoom/Covid, 7/20)
Ohio State (Leber/Zoom/Covid, 7/20)	U Chicago (Awh/Vogel/Zoom, 9/20)
U Toronto (Pratt/Zoom/Covid 10/20)	Macquarie U, Sydney (Rich/Zoom/Covid 11/20)
IEEE (Auditory, Slaney) 11/20	Goethe U, Frankfurt, Germany (Vo/Zoom/Covid, 11/20)
Tuebingen, German (Zhaoping Li, Zoom/Covid, 2/21)	
Stirling U, Scotland (Millen, Zoom/Covid, 2/21)	

Invited Conference Presentations (136 as of Dec 2020)

1993	Guided Search 2.0: The upgrade. Human Factors Society
1993	The effects of aging on normal visual function. ARVO Symposium on Cataract at the Academy of Ophthalmology Meeting,
1993	A new look at binocular single vision. Academy of Optometry
1994	Extending Guided Search: Why Guided Search needs a preattentive "item map". CW Eriksen Festschrift, U. Illinois, May 20-22
1995	Understanding visual search and visual attention. Invited Address, Eastern Psychological Association Annual Meeting, Boston, April 1
1995	Where is Guided Search going? Banff Annual Seminar in Cognitive Science (BASICS) Banff, Alberta, CA, May 1995
1996	Vision: preattentive, attentive and post-attentive. New Fellows Address American Psychological Association meeting - Toronto, Aug. 1996
1996	Post-attentive vision. International Congress of Psychology - Montreal, Aug. 1996
1997	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 HM as a model of vision: Vision as amnesia. - American Psychological Association, Mind, Brain, and Behavior Symp. Aug 14th San Francisco.
- 1998 How quickly they forget: A modest alternative to blinks and blindness. Abstracts of the Psychonomic Society (Dallas, Nov, '98) Abs. #507
- 1999 Paying attention to attention in the teaching of Psychology. - National Institute on the Teaching of Psychology (NITOP), St. Petersburg, Jan. 1999
- 1999 Vision, attention, and memory. 3rd annual Vision Research conference. Preattentive and Attentive Mechanisms in Vision (7-8 May): Ft. Lauderdale, FL.
- 1999 The Deployment of Covert Attention: Two Surprises. NATO RTO/SCI-12 Workshop on Search and Target Acquisition. (21-23 June): Utrecht, The Netherlands
- 2000 Post-attentive vision and the illusion of perception. Invited paper presented at the Toward a Science of Consciousness, Tuscon, AZ. (April 11, 2000)
- 2000 The unbinding problem. Invited paper presented at the annual meeting of the Psychonomic Society, New Orleans, LA. (Nov 18, 2000)
- 2001 Change Blindness Workshop, Duke U, May 26, 2001
- 2001 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 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 What are we searching for? Studies in Visual Attention. Presidential Address at Annual meeting of the Eastern Psychological Association, Boston, April 9, 2002
- 2002 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 Modeling visual search: Guided search and its friends. Invited Keynote, Munich Symposium on Visual Search, Holzhausen am Ammersee, Bavaria, Germany (June, 2003).
- 2003 Speed limits on the top-down guidance of attention. Invited talk, International workshop on Visual Attention. San Miniato, Italy (June, 2003).
- 2004 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 A two-pathway architecture for visual attention (w/ Todd Horowitz): Invited Talk: Australian Neuroscience Society, (Melbourne, Jan 29, 2004)
- 2004 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 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 Guided Search: Invited talk at Modeling Integrated Cognitive Systems (MICS) Saratoga Springs, NY, March 3-5, 2005
- 2005 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 Searching the Cytological Sample. Invited - Annual meeting of the UK National Association of Cytologists, York, UK April 22, 2006
- 2006 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 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 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 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 Guidance of visual search by unlocalized scene properties Invited talk MIT Scene Understanding Seminar (SUNS07), MIT, Cambridge, MA, Feb, 1-2, 2007
- 2007 How do we see what we "see". Ultrasound/Women's Imaging Course, Westin Hotel, Boston, May 2, 2007
- 2007 Keynote Address: 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 Highly Efficient Search for Arbitrary Objects in Natural Scenes Invited talk MIT Scene Understanding Seminar (SUNS07), MIT, Cambridge, MA, Feb, 1, 2008
- 2008 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 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 Address: Modeling visual search in real scenes: What will it take? Firbourg/Munich Visual search symposium, Murten, Switزرland, July 16-19, 2008
- 2008 Classical and non-classical guidance of attention in visual search. International Congress of Psychology, Berlin, July 22-25, 2008
- 2008 The role of memory in visual search. APA annual meeting, Boston, Aug. 14-17, 2008
- 2008 Perceptual Learning, Motor Learning and Automaticity, Amsterdam, Dec. 8-12, 2009
- 2009 Search in real scenes: The latest mysteries, the latest clues. Invited talk MIT Scene Understanding Seminar (SUNS09), MIT, Cambridge, MA, Jan 30, 2009
- 2009 The human in the loop. Invited talk Algorithm Detection for Security Applications. Northeastern U., Boston, MA April 23, 2009

- 2009 Perception: How we “see” things. Invited talk American Roentgen Ray Society 2009 Annual Meeting, Boston, MA, April 29, 2009
- 2009 Human in the loop: Invited talk: American Society of Neuroradiology meeting, Vancouver May 16-21, 2009
- 2009 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
- 2009 Mammography in the blink of an eye. Last-minute invited talk (I replaced a “new investigator” speaker who couldn’t attend the APA Annual Meeting, Toronto, ON, 8/8/09
- 2009 Keynote Address: When should I leave? Invited talk NGA Academic Research Program (NARP) Symposium, Washington, DC 9/29-30/09
- 2009 If I can see so much, why do I miss so much. Distinguished contribution award address. New England Psychological Association Annual meeting, Worcester, MA, 10/10/09
- 2009 Keynote Address: What are we searching for? Adventures in the airport, the hospital, and the lab. Invited talk: IEEE Applied Imagery Pattern Recognition Conference, Washington, DC 10/15-16/09
- 2009 Pay Attention! Harvard Graduate School of Education faculty-industry leader research project entitled "Learning Innovations Laboratory" Oct 27-28, 2009, Cambridge, MA
- 2010 How might visual search and visual attention influence sports performance? Sports Vision 2010, Jan 24, 2010, Fenway Park, Boston, MA
- 2010 A series of three lectures given to the Graduate School consortium of Swiss Psychology departments (organized by Joe Krummenacher) April 9-10, 2010
- 2010 How can it be so easy to find arbitrary objects in natural scenes? Invited talk: Selection and control mechanisms in perception and action. Meeting at Hebrew University, Inst. for Advanced Studies, April 12-15, 2010, Jerusalem, Israel
- 2010 Who is looking at that image? The human factor, Invited talk: Algorithm Development for Security Applications (ADSA) Workshop 3: Application to Advanced Imaging Technology (Whole Body Imaging) April 27-28, 2010, Northeastern University

- 2010 If I am so good at this, why do I miss so much? Invited plenary talk, International Society for Magnetic Resonance in Medicine, May 4, 2010, Stockholm, Sweden
- 2010 Visual Search Gets Real: From the Lab to the Airport to the Radiology Suite. Invited Keynote Address, Assoc. for Psychological Science (APS), May 27, 2010, Boston, MA
- 2010 Visual Search: Telluride neuromorphic workshop, July 1-8, 2010, Telluride, CO
- 2010 On Vision & Attention, National Cancer Institute Basic and Biobehavioral Research Branch Expert Meeting: Sensory Sciences & Embodied Cognition August 4-5, 2010, Washington, DC; 3 presentations
- 2011 The future of psychology. in "Presidential Perspectives on Psychology" Symposium, Eastern Psychological Association Annual Meeting, March 11, 2011, Boston
- 2011 "What's my motivation in this scene? Visual search when it really counts" 59th Nebraska Symposium on Motivation, U. Nebraska, Lincoln, NE, April 7-9, 2011
- 2011 The Salami at the Airport: Visual Search Gets Real" Saturday, Vision Sciences Society Public Lecture, May 7, 2011 Naples, Florida
- 2011 Dancing Chickens and iPods Stored in Honey: Why Visual Attention Research Matters. Keynote lecture for WestConn Research Day, Western Connecticut State University, May 13, 2011, Danbury, CT
- 2011 Visual Search. Tutorial lectures at The 3rd Beijing International Symposium on Computational Neuroscience. Medical School, Tsinghua University, Beijing, China, July 13, 2011
- 2011 Don't pack your iPod in honey: Lessons from the study of visual search. Keynote address at Asian Conference on Visual Perception, Hong Kong, July 16, 2011
- 2011 If I can see so much, why do I miss so much? And why should I care? Invited talk at the Mind Matters conference. Procter and Gamble, Cincinnati, Ohio, October, 13, 2011
- 2011 Visual search for objects. Invited talk at the Rovereto Attention Workshop, Rovereto, Italy, October 28, 2011

- 2011 How might technology improve human detection performance? Algorithm Development for Security Applications (ADSA) Workshop 6: August 8, 2011, Northeastern University
- 2012 The rules of guidance in visual search. Keynote address at 1st Indo-Japan Conference on Perception and Machine Intelligence. Kolkata, India Jan 20-21, 2012
- 2012 Is that a salami in your suitcase? When visual search really matters. Keynote address at the 2012 Great Plains Students' Psychology Convention, NW Missouri State U, Maryville, Missouri
- 2012 There is a world elsewhere" Guided Search beyond the computer screen. Keynote address at Visual Search and Selective Attention (VSSA III), July 20-23, 2012 at Holzhausen/Ammersee, Germany.
- 2012 Afloat on a sea of images: How do humans deal with New tools and practices for seeing and learning in medicine? Keynote address at Visualization Tools in Medical Education and Expertise (ViTiMEE) Oct. 22-23, Turku Finland.
- 2013 If I can see so much, why do I miss so much? Entertainment Software and Cognitive Neurotherapeutics Society Society, ESCoNS 2. Los Angeles, 3/14-17/13
- 2013 Wolfe, J. M., Cunningham, C. A., & Drew, T. Hybrid visual and memory search. Paper presented at the APS annual meeting in a symposium on Predicting Choice from Exploration, Washington, DC. May 26, 2013
- 2013 Wolfe, J. M. How selective and non-selective pathways contribute to visual search in scenes. 17th International Conf. on Cognitive and Neural Systems (ICCNs), Boston University, June 4, 2013
- 2014 Keynote Address: Wolfe, J M Visual Search from Lab to Clinic and Back. SPIE 2014 Medical Imaging, Conference 9037 Image Perception, Observer Performance, and Technology Assessment, San Diego, Feb 15-20, 2014
- 2014 Keynote Address: Wolfe, J M The Human Search Engine 2014. 56th Conference of Experimental Psychologists (TeaP), Giessen, Germany, March 31-April 2, 2014
- 2014 Wolfe, J M If I can see so much, why do I miss so much. Invited speech. 17th Conference on Attention and Perception, Chaiyi, Taiwan. June, 25-26, 2014
- 2014 Wolfe, J M Beyond searching for red vertical lines: New frontiers in visual search. Invited speech. 17th Conference on Attention and Perception, Chaiyi,

- Taiwan. June, 25-26, 2014
- 2014 Wolfe, J M Registered Reports and Replications. Reliability and Replication in Psychological Science, Princeton University, April 12, 2014
- 2014 Wolfe, J M Dancing chickens and gorillas in the lung: If I can see so much, why do I miss so much? Invited talk at The Grand Illusion of Consciousness-4 workshop, organized by the Cognitive Research lab of Higher School of Economics (Moscow) and the Cognitive research group of Saint Petersburg State University.
- 2015 Wolfe, J M Medical Image Perception I: The human search engine, Invited talk at Fourth Malmö Conference on Medical Imaging, Gothenburg, Sweden, May 28-30, 2015
- 2015 Wolfe, J M Medical Image Perception II: How much of my time is this image worth? Invited talk at Fourth Malmö Conference on Medical Imaging, Gothenburg, Sweden, May 28-30, 2015
- 2015 Wolfe, J M., Drew, T, Cunningham, C, Ehinger, K, & Boettcher, S. Hybrid Search: How Long-Term Memories Interact with Visual Search. Psychonomic Society Governing Board Edinburgh Symposium, Edinburgh, July 17, 2015
- 2015 Wolfe, J M, If I can see so much, why do I miss so much? What the study of attention tells us about medical image perception. I-MED Network Doctors' Conference, Sydney Aug, 28-30, 2015
- 2015 Wolfe, J M, I am so through with you: When is it time to stop looking at an image? I-MED Network Doctors' Conference, Sydney Aug, 28-30, 2015
- 2016 Wolfe, J M, If I can see so much, why do I miss so much? 38th National Institute on the Teaching of Psychology, St. Petersburg Beach, FL, Jan 2-6, 2016
- 2016 Wolfe J M, Hybrid foraging: Searching for many instances of several things Keynote lecture, European Mathematical Psychology Group, University of Copenhagen, June 22, 2016
- 2016 Wolfe J M, Hybrid Search: How long-term memories interact with visual search. Invited Talk, 4th International TVA Meeting, University of Copenhagen, June 24, 2016
- 2016 Wolfe, JM What can the study of visual search tell us about breast cancer screening? The Sir John Stebbings Lecture, Symposium Mammographicum, Liverpool, UK, July 4, 2016

- 2016 Wolfe, JM Dancing chickens and gorillas in the lung: If I can see so much, why do I miss so much? Annual meeting of the New England Teachers of Psychology (NETOP), Hopkinton, MA, Aug 10, 2016
- 2016 Wolfe, JM How the heck did I miss that? National Academy of Sciences' (NAS's) Summit on Social and Behavioral Sciences for National Security, Washington, DC, October 4-5, 2016
- 2016 Visual search in a changing world: There are so many things to find. Annual Meeting of Taiwanese Psychological Association, Tainan, Taiwan, Oct 14-16, 2016 (plus two other shorter talks)
- 2016 Keynote Address: How the heck did I miss that? The human search engine and medical image perception. Diagnostic Error in Medicine 9th International Conference, Los Angeles, CA, Nov 7, 2016
- 2016 How did I miss that? How did I find that? Medical Image Perception Radiological Society of North America. Chicago, Nov 26 – Dec 1, 2016. Four versions given in their “Discovery Theater”.
- 2017 The Incidental Gorilla: How we find or don't find things that we want or don't want to find. Cognitive Keynote at Eastern Psychological Association meeting, Park Plaza, Boston, MA Mar. 18, 2017
- 2017 The Incidental Gorilla: What can the science of visual attention tell us about the art of radiology? Keynote at SCIA 2017, Scandanavian Conference on Image Analysis, Tromso, Norway, June 13, 2017
- 2017 Object Perception, visual Attention, and visual Memory: 25 years of work on visual search. Keynote at OPAM (Object Perception, Attention, and Memory) meeting, Vancouver, BC, Nov. 9, 2017
- 2017 How Did I Miss That? Perceptual and Attentional Roots of Medical Errors. Refresher Course #154 at Radiological Society of North America (RSNA) meeting, Chicago, IL Nov 26, 2017
- 2018 Why didn't I see that? The role of attention in visual search errors. Keynote - IGTA2018 (International Conference of Image and Graphics Technology and Application), Beihang University (BUAA, 37 Xueyuan Road, Beijing, 100083) April 9, 2018
- 2018 Anne Treisman's legacy and the future of visual search, Keynote – Visual Search and Selective Attention IV (VSSA4), Ammersee, Bavaria, Germany, July 14, 2018

- 2018 How the heck did I miss that: What Can Behavioral Science Tell Us About Clinical Pathology? Invited CME class with Jennifer S. Trueblood (Vanderbilt), American Society for Clinical Pathology (ASCP), Baltimore, MD, Oct. 3, 2018
- 2018 OMG, I did not see that! The science of missing what is right in front of your eyes. Radiology Grand Rounds at St. Vincent's Medical Center, Worcester, MA. Oct 10, 2018
- 2018 How Did I Miss That? Perceptual and Attentional Roots of Medical Errors. Refresher Course #RC354 at Radiological Society of North America (RSNA) meeting, Chicago, IL Nov 27, 2018
- 2019 Changing the Definition of Clinical Trials – challenges for basic and social scientists. U. Minn, Annual Research Ethics Day *Given at Major Changes in Research Rules & Oversight: Making Progress or Creating New Problems?* Minneapolis, MN, March 6, 2019
- 2019 Decadal Survey of Social and Behavioral Sciences for Applications to National Security. Panel at International Convention of Psychological Science (ICPS), Paris, March 9, 2019
- 2019 If you want people to find "it", what should "it" look like? Invited talk at Vis X Vision: Workshop on Novel Directions in Vision Science and Visualization Research @ IEEE VIS2019 meeting. Vancouver, BC, October 20, 2019
- 2019 Drillers and Scanners: What eye movements tell us about medical image perception and Guided Search, The Active Vision Workshop, The Jerusalem Brain Community, The Hebrew University of Jerusalem, Nov 4, 2019
- 2020 How do you find (or fail to find) what you are looking for? Visual search in medical images. CEPET medical expertise workshop Oct 19-20, Macquarie U, Sydney, Australia (By Zoom – COVID)
- 2020 Rare threats pose cognitive challenges. ADSA22: Reducing Operator Cognitive Load in Aviation Security Equipment (annual meeting of ALERT (*Awareness and Localization of Explosives-Related Threats*)) - a multi-university Department of Homeland Security Center of Excellence. Zoom, Nov 24, 2020
- 2020 OMG I did not see that! How we can miss what is right in front of our eyes. The 2020 James Bull Lecture of British Society of Neuroradiologists, 800 people on Zoom, Dec 16, 2020.

Bibliography:**Google Scholar profile (reasonably accurate):**<http://scholar.google.com/citations?user=WQmNzVMAAAAJ&hl=en&oi=ao>

33,077 citations, h= 83 in April 2020

ORCIDorcid.org/0000-0002-6475-1984**Complete List of Published Work in NCBI My Bibliography:**<http://www.ncbi.nlm.nih.gov/myncbi/jeremy.wolfe.1/bibliography/40511239/public/?sort=date&direction=ascending>**212 Original, peer-reviewed reports, 16 proceedings, 1 textbook (6 editions), 39 book chapters, 35 other, 447 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.
62. Humphreys, G.W., Cinel, C., Wolfe, J.M., Olson, A., & Klempen, N. Fractionating the binding process: neuropsychological evidence distinguishing binding of form from binding of surface features. *Vision Research* 2000; 40(10-12): 1569-1596.
63. Horowitz, T.S., & Wolfe, J.M. Search for multiple targets: Remember the targets, forget the search. *Perception and Psychophysics* 2001; 63(2): 272-285.
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.
66. Horowitz, T., Cade, B., Wolfe, J., & Czeisler, C. Efficacy of bright light and sleep/wake schedules in alleviating circadian maladaptation to night work. *American Journal of Physiology: Endocrinology and Metabolism*; 2001, 281: E384-E391.

67. Wolfe, J.M., Oliva, A., Butcher, S.J., & Arsenio, H.C. An Unbinding Problem? The disintegration of visible, previously attended objects does not attract attention. *Journal of Vision* 2002; 2(3): 256-271.
68. Wolfe, J., Oliva, A., Horowitz, T., Butcher, S., & Bompas, A. Segmentation of objects from backgrounds in visual search tasks. *Vision Research* 2002; 42(28): 2985-3004.
69. Wolfe JM. 2003. Visual Search: Are some enduring controversies moving toward solution? *Trends Cogn Sci* 7: 70-6
70. Wolfe JM, Butcher SJ, Lee C, Hyle M. 2003. Changing your mind: On the contributions of top-down and bottom-up guidance in visual search for feature singletons. *J Exp Psychol: Human Perception and Performance* 29: 483-502
71. Horowitz, T. S., & Wolfe, J. M. (2003). Memory for rejected distractors in visual search? *Visual Cognition*, 10(3), 257-298.
72. Wolfe, J. M., & DiMase, J. S. (2003). Do intersections serve as basic features in visual search? *Perception*, 32(6), 645-656
73. Horowitz, T., Cade, B., Wolfe, J., & Czeisler, C. (2003). Searching night and day: The influence of circadian phase and sleep deprivation on visual attention. *Psychological Science*, 14(6), 549-557
74. Wolfe, J. M., & Horowitz, T. S. (2004). What attributes guide the deployment of visual attention and how do they do it? *Nature Reviews Neuroscience*, 5(6), 495-501.
75. Wolfe, J. M., Horowitz, T. S., Kenner, N., Hyle, M., & Vasan, N. (2004). How fast can you change your mind? The speed of top-down guidance in visual search. *Vision Research*, 44(12), 1411-1426.
76. Horowitz, T. S., Holcombe, A. O., Wolfe, J. M., Arsenio, H., & DiMase, J. S. (2004). Attentional pursuit is faster than attentional saccade. *J of Vision*, 4(7(6)), 585-603.
77. Oliva A, Wolfe JM, Arsenio HC. 2004. Panoramic search: The interaction of memory and vision in search through a familiar scene. *J. Exp. Psychol: Human Perception and Performance* 30: 1132-46
78. Wolfe, J. M., Birnkrant, R. S., Kunar, M. A., & Horowitz, T. S. (2005). Visual search for transparency and opacity: Attentional guidance by cue combination? *J of Vision*, 5(3), 257-274.
79. Wolfe, J. M. (2005). On topology's place in the psychophysical structure of human vision. *Visual Cognition*, 12(4), 675-682.
80. Wolfe, J. M., Horowitz, T. S., & Kenner, N. M. (2005). Rare targets are often missed in

visual search. *Nature*, 435(7041), 439-440. NIHMSID #580138, PMCID: PMC 4224304, doi: 10.1038/435439a <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4224304>

81. Alvarez, G. A., Arsenio, H. C., DiMase, J. S., Horowitz, T. S., & Wolfe, J. M. (2005). Do multielement visual tracking and visual search draw continuously on the same visual attention resources? *J Exp Psychol Hum Percept Perform*, 31(4), 643-667.

82. Wolfe, J. M., A. Reinecke, Brawn, P(2006). "Why don't we see changes? The role of attentional bottlenecks and limited visual memory." *Visual Cognition* 19(4-8): 749-780. <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2574522> NIHMSID #67405

83. Horowitz, T. S., Birnkrant, R. S., Wolfe, J. M., Fencsik, D. E., & Tran, L. (2006). How do we track invisible objects? *Psych. Bull. And Rev.*, 13(3), 516-523.

84. Kunar, M., Flusbuerg, S., & Wolfe, J. (2006) Contextual Cueing by global features. *Perception & Psychophysics*, 68(7), 1204-1216 PMCID: PMC2678916 NIHMSID #67405

85. Horowitz, T. S., Fencsik, D. E., Fine, E. M., Yurgenson, S., & Wolfe, J. M. (2007). Microsaccades and attention: Does a weak correlation make an index? Reply to Laubrock, Engbert, Rolfs, & Kliegl (2007). *Psychol Sci*, 18(4), 367-368.

86. Horowitz, T. S., Fine, E. M., Fencsik, D. E., Yurgenson, S., & Wolfe, J. M. (2007). Fixational eye movements are not an index of covert attention. *Psychol Sci*, 18(4), 356-363.

87. Wolfe, J. M., Horowitz, T. S., & Michod, K. O. (2007). Is visual attention required for robust picture memory? *Vision Res*, 47(7), 955-964. PMCID: PMC1857419, doi: 10.1016/j.visres.2006.11.025. NIHMSID #20389

88. Wolfe, J. M., Place, S. S., & Horowitz, T. S. (2007). Multiple Object Juggling: Changing what is tracked during extended multiple object tracking. *Psych Bulletin & Review*, 14(2), 344-349.

89. Horowitz, T. S., Klieger, S. B., Fencsik, D. E., Yang, K. K., Alvarez, G. A., & Wolfe, J. M. (2007). Tracking unique objects. *Perception & Psychophysics*, 69(2), 172-184.

90. Kunar, M. A., Flusberg, S. J., Horowitz, T. S., & Wolfe, J. M. (2007). Does Contextual Cueing Guide the Deployment of Attention? *J Exp Psychol Hum Percept Perform*, 33, 816-828. NIHMSID #75735, PMCID: PMC2922990

91. Wolfe, J. M., Horowitz, T. S., VanWert, M. J., Kenner, N. M., Place, S. S., & Kibbi, N. (2007). Low target prevalence is a stubborn source of errors in visual search tasks. *JEP: General*, 136(4), 623-638. NIHMSID #96865, PMCID: PMC2662480 <http://www.pubmedcentral.gov/articlerender.fcgi?artid=2662480> doi: 10.1037/0096-3445.136.4.623.

92. Horowitz, T. S., Wolfe, J. M., DiMase, J., & Klieger, S. B. (2007). Visual search for type of motion is based on simple motion primitives. *Perception*, 36, 1624-1634.

93. Kunar, M. A., Flusberg, S.J., & Wolfe, J. M. (2008). The role of memory and restricted context in repeated visual search. *Percept Psychophys*, 70(2), 314-328.
94. Li, X., Cave, K., & Wolfe, J. M. (2008). Kanisza-style subjective contours do not guide attentional deployment in visual search but line termination contours do. *Perception & Psychophysics*, 70(3), 477-488.
95. Kunar, M. A., Flusberg, S. J., & Wolfe, J. M. (2008). Time to Guide: Evidence for Delayed Attentional Guidance in Contextual Cueing. *Visual Cognition*, 16, 804-825. <http://www.pubmedcentral.gov/articlerender.fcgi?artid=2563807>
doi: 10.1080/13506280701751224. NIHMSID #66767
96. Intraub, H., Daniels, K. K., Horowitz, T. S., & Wolfe, J. M. (2008). Looking at scenes while searching for numbers: Dividing attention multiplies space. *Percept Psychophys*, 70(7), 1337-1349.
97. Howe, P. D., Horowitz, T. S., & Wolfe, J. M. (2008). Transient signals per se do not disrupt the flash-lag effect. *Behav Brain Sci*, 31(2), 206. PMID: PMC2749606
doi: 10.1017/S0140525X08003890.
98. Rich, A. N., Kunar, M. A., VanWert, M. J., Hidalgo-Sotelo, B., Horowitz, T. S., & Wolfe, J. M. (2008). Why do we miss rare targets? Exploring the boundaries of the low prevalence effect. *J of Vision*, 8(15, article), 1-17. PMID: 19146299, PMID: PMC3069706, doi: [10.1167/8.15.15](https://doi.org/10.1167/8.15.15).
99. VanWert, M. J., Wolfe, J. M., & Horowitz, T. S. (2009). Even in correctable search, some types of rare targets are frequently missed. *Attention, Perception & Psychophysics*, 71(3), 541-553. PMID: PMC2701252, doi: 10.3758/APP.71.3.541. NIHMSID #84229
100. Cohen, M. A., Horowitz, T. S., & Wolfe, J. M. (2009). You will forget that you heard this: Auditory recognition memory is inferior to visual recognition memory. *Proceedings of the National Academy of Sciences*, 106(14), 6008-6010. PMID: PMC2667065, NIHMS #84229, doi: 10.1073/pnas.0811884106. PubMed # [21374094](https://pubmed.ncbi.nlm.nih.gov/21374094/)
NIHMSID #564020
101. Howe, P. D., Horowitz, T. S., Akos Morocz, I., Wolfe, J., & Livingstone, M. S. (2009). Using fMRI to distinguish components of the multiple object tracking task. *Journal of Vision*, 9(4), 1-11. NIHMSID #173110
102. Wolfe, J. M., Reijnen, E., Van Wert, M. J., & Kuzmova, Y. (2009). In visual search, guidance by surface type is different than classic guidance. *Vision Res*, 49(7), 765-773. NIHMSID #97758

103. Joseph, R. M., Keehn, B., Connolly, C., Wolfe, J. M., & Horowitz, T. S. (2009). Why Is Visual Search Superior in Autism Spectrum Disorder? *Developmental Science*, 12(6), 1083-1096. PMID: 19840062
104. Horowitz, T. S., Wolfe, J. M., Alvarez, G. A., Cohen, M. A., & Kuzmova, Y. I. (2009). The speed of free will. *Q J Exp Psychol (Colchester)*, 62(11), 2262-2288. PMID: 19255946
105. Wolfe, J. M., & VanWert, M. J. (2010). Varying target prevalence reveals two, dissociable decision criteria in visual search. *Curr Biol*, 20(2), 121-124. NIHMSID #165066, PMC2818748 Published online 2010 January 14. doi: [10.1016/j.cub.2009.11.066](https://doi.org/10.1016/j.cub.2009.11.066).
106. Kunar, M. A., Rich, A. N., & Wolfe, J. M. (2010). Spatial and temporal separation fails to counteract the effects of low prevalence in visual search. *Visual Cognition*, 18(6), 881-897. <http://dx.doi.org/10.1080/13506280903361988>, PMCID: PMC3064483, NIHMSID: NIHMS278836
107. Wolfe, J. M., Palmer, E. M., & Horowitz, T. S. (2010). Reaction time distributions constrain models of visual search. *Vision Res*, 50, 1304-1311. PMID: 19895828, NIHMS #163784, <http://dx.doi.org/10.1016/j.visres.2009.11.002>
108. Lindsey, D. T., Brown, A. M., Reijnen, E., Rich, A. N., Kuzmova, Y., & Wolfe, J. M. (2010). Color Channels, not Color Appearance or Color Categories, Guide Visual Search for Desaturated Color Targets. *Psychol Sci*, 21(9), 1208-1214. first published online on August 16, 2010. PMCID: PMC3050514, NIHMSID: NIHMS255810
109. Wolfe, J. M., & Myers, L. (2010). Fur in the midst of the waters: visual search for material type is inefficient. *J Vis*, 10(9), 8. <http://journalofvision.org/10/9/8/>. PubMed # [20884606](https://pubmed.ncbi.nlm.nih.gov/20884606/) NIHMSID # [564026](https://pubmed.ncbi.nlm.nih.gov/564026/), PMC3966910, [PMC3966910/](https://pubmed.ncbi.nlm.nih.gov/PMC3966910/)
110. Palmer, E. M., Horowitz, T. S., Torralba, A., & Wolfe, J. M. (2011). What are the shapes of response time distributions in visual search? *Journal of Experimental Psychology: Human Perception and Performance*, 37(1), 58-71. Published on line 2010/11/26 PubMed # [21090905](https://pubmed.ncbi.nlm.nih.gov/21090905/) NIHMSID # [279578](https://pubmed.ncbi.nlm.nih.gov/279578/)
111. Evans, K. K., Cohen, M. A., Tambouret, R., Horowitz, T. S., Kreindel, E., & Wolfe, J. M. (2011). Does visual expertise improve visual recognition memory? *Atten Percept Psychophys*, 73(1), 30-35.
112. Pinto, Y., Otten, M., Cohen, M. A., Horowitz, T. S., & Wolfe, J. M. (2011). The boundary conditions for Bohr's law: When is reacting faster than acting? *Atten Percept Psychophys*. 72(2), 613-620., , Online First™ , 10 November 2010
113. Drew, T., Horowitz, T. S., Wolfe, J. M., & Vogel, E. K. (2011). Delineating the neural signatures of tracking spatial position and working memory during attentive tracking. *J. Neuroscience*, 31, 659-668.

114. Wolfe, J. M., Vo, M. L.-H., Evans, K. K., & Greene, M. R. (2011). Visual search in scenes involves selective and non-selective pathways. *Trends Cogn Sci*, 15(2), 77-84. . PMID: 21227734 PMCID: PMC3035167, NIHMS258394
115. Gagnier, K. M., Intraub, H., Oliva , A., & Wolfe, J. M. (2011). Why does vantage point affect boundary extension? *Visual Cognition*, 19(2), 234 – 257.
116. Wolfe, J., Reijnen, E., Horowitz, T., Pedersini, R., Pinto, Y., & Hulleman, J. (2011). How does our search engine “see” the world? The case of amodal completion. *Attention, Perception, & Psychophysics*, 73(4), 1054-1064. PubMed # [21331672](#), PMC3090510 NIHMSID # [280340](#), doi [10.3758/s13414-011-0103-0](#)
117. Andriole, K. P., Wolfe, J. M., Khorasani, R., Treves, S. T., Getty, D. J., Jacobson, F. L., et al. (2011). Optimizing Analysis, Visualization, and Navigation of Large Image Data Sets: One 5000-Section CT Scan Can Ruin Your Whole Day. *Radiology*, 259(2), 346-362.
118. Wolfe, J., & Kuzmova, Y. (2011). How many pixels make a memory? Picture memory for small pictures. *Psychonomic Bulletin & Review*, 18(3), 469-475.
119. Greene, M. R., & Wolfe, J. M. (2011). Global image properties do not guide visual search. *Journal of Vision*, 11(6).18, doi:[10.1167/11.6.18](#)
120. Cohen, M., Evans, K., Horowitz, T., & Wolfe, J. M. (2011). Auditory and visual memory in musicians and nonmusicians. *Psychonomic Bulletin & Review*, 18(3), 586-591. <http://dx.doi.org/10.3758/s13423-011-0074-0> PubMed # 21374094 NIHMSID #564020, PMC2667065, NIHMS #84229, PMC3967744 (2PMC#?)
121. Evans, K. K., Horowitz, T. S., & Wolfe, J. M. (2011). When Categories Collide: Accumulation of Information About Multiple Categories in Rapid Scene Perception *Psychological Science*, 22(6), 739-746. published on line, May, 2011 doi: [10.1177/0956797611407930](#)
122. Wolfe, J. M., Alvarez, G. A., Rosenholtz, R. E., & Kuzmova, Y. I. (2011). Visual search for arbitrary objects in real scenes. *Atten Percept Psychophys*, on line June 16, 2011, 1-22. Doi: [10.3758/s13414-011-0153-3](#) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3153571/>
123. Kunar, M. A., & Wolfe, J. M.(2011). Target absent trials in configural contextual cuing. *Attention, Perception, & Psychophysics*, 73(7), 2077-2091. Doi: [10.3758/s13414-011-0164-0](#) PMID: 21691902: PMC5565880
124. Palmer, E. M., Fencsik, D. E., Flusberg, S. J., Horowitz , T. S., & Wolfe, J. M. (2011). Signal Detection Evidence for Limited Capacity in Visual Search *Atten Percept Psychophys*, 73(8), 2413–2424. doi: [10.3758/s13414-011-0199-2](#). PMID: 21901574 [PubMed - indexed for MEDLINE] : NIHMSID #579919, PMCID: PMC4037406

125. Evans, K. K., Tambouret, R., Wilbur, D. C., Evered, A., & Wolfe, J. M. (2011). Prevalence of Abnormalities Influences Cytologists' Error Rates in Screening for Cervical Cancer” *Archives of Pathology & Laboratory Medicine*, 135(12), 1557-1560. doi: 10.5858/arpa.2010-0739-OA. PMID: 22129183, NIHMSID #564015, PMC3966132
126. Vo, M. L.-H., & Wolfe, J. M. (2012). When does repeated search in scenes involve memory? Looking at versus looking for objects in scenes. *J. Exp. Psychol: Human Perception and Performance*, 38(1), 23-41. doi: 10.1037/a0024147. Epub 2011 Jun 20. PMID: 21688939 NIHMSID #564003, PMCID: PMC3969238
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3969238/>
127. Ishibashi, K., Kita, S., & Wolfe, J. M.(2011). The effects of local prevalence and explicit expectations on search termination times. *Attention, Perception, & Psychophysics*, 74(1), 115-123. <http://dx.doi.org/10.3758/s13414-011-0225-4> PMID: 22006528 [PubMed - indexed for MEDLINE] NIHMSID #564019 , PMC3968907/
128. Greene, M. R., Liu, T., & Wolfe, J. M. (2012). Reconsidering Yarbus: Pattern classification cannot predict observer's task from scan paths. *Vision Res*, 62, 1-8. <http://dx.doi.org.ezp-prod1.hul.harvard.edu/10.1016/j.visres.2012.03.019> PMID: 22487718 PMC3526937
129. Wolfe, J. M. (2012). Saved by a log: How do humans perform hybrid visual and memory search? *Psychol Sci*, 23(7), 698-703. doi:doi:10.1177/0956797612443968 PMID: 22623508, PMC3966104
130. Drew, T., Cunningham, C. A., & Wolfe, J. M. (2012). When and Why Might a Computer-aided Detection (CAD) System Interfere with Visual Search? An Eye-tracking Study. *Acad Radiol*, 19, 1260–1267. doi: 10.1016/j.acra.2012.05.013. PMID: 22958720 [PMC3438519](#) [NIHMS399775](#)
131. Drew, T., Evans, K., Vo, M. L.-H., Jacobson, F. L., & Wolfe, J. M. (2013). Informatics in Radiology: What Can You See in a Single Glance and How Might This Guide Visual Search in Medical Images? *RadioGraphics*, 33, 263–274. PMID: 23104971, PMC3545617
132. Drew, T., Horowitz , T. S., Wolfe, J. M., & Vogel, E. K. (2012). Neural measures of dynamic changes in attentive tracking load. *J. Cog. Neuroscience*, 24 (2), 440-450. DOI: 10.1162/jocn_a_00107, PMID: 21812558 [PubMed - indexed for MEDLINE]
133. Vo, M. L., & Wolfe, J. M. (2012). The interplay of episodic and semantic memory in guiding repeated search in scenes. *Cognition*, 126, 198-212
DOI: 10.1016/j.cognition.2012.09.017, PMID: 23177141 PMCID: PMC3928147
134. Reijnen, E., Wolfe, J. M., & Krummenacher, J. (2013). Coarse Guidance by Numerosity in Visual Search. *Atten Percept Psychophys*, 75(1), 16-28. doi: 10.3758/s13414-012-0379-8. PMID: 23070885; NIHMSID # 579915, PMCID: PMC4037405

135. Suzuki, M., Wolfe, J. M., Horowitz, T. S., & Noguchi, Y. (2013). Apparent color-orientation bindings in the periphery can be influenced by feature binding in central vision. *Vision Res*, 82, 58-65. <http://dx.doi.org/10.1016/j.visres.2013.02.011>
136. Evans KK, Birdwell RL, Wolfe JM (2013) If You Don't Find It Often, You Often Don't Find It: Why Some Cancers Are Missed in Breast Cancer Screening. *PLoS ONE* 8(5): e64366. doi:10.1371/journal.pone.0064366 PMC3667799
137. Vo, M. L., & Wolfe, J. M. (2013). Differential ERP Signatures Elicited by Semantic and Syntactic Processing in Scenes. *Psychological Science*, 24(9), 1816-1823
doi:10.1177/0956797613476955 PubMed # 23842954, NIHMSID 624849, PMCID: PMC4838599
138. Drew, T., Vo, M. L.-H., & Wolfe, J. M. (2013). The Invisible Gorilla Strikes Again: Sustained Inattentional Blindness in Expert Observers. *Psychological Science*, 24(9), 1848-1853. doi:10.1177/0956797613479386 PubMed # 23863753, PMC3964612
139. Drew, T., Vo, M. L.-H., Olwal, A., Jacobson, F., Seltzer, S. E., & Wolfe, J. M. (2013). Scanners and drillers: Characterizing expert visual search through volumetric images. *Journal of Vision*, 13(10). PMID: 23922445; PMCID: PMC3736761
140. Wolfe, J. M. (2013). When is it time to move to the next raspberry bush? Foraging rules in human visual search. *Journal of Vision*, 13(3). DOI: 10.1167/13.3.10 PMID: 23641077 PMCID: PMC4521330
141. Evans, K., Georgian-Smith, D., Tambouret, R., Birdwell, R., & Wolfe, J. (2013). The gist of the abnormal: Above-chance medical decision making in the blink of an eye. *Psychonomic Bulletin & Review*, 20(6), 1170-1175, DOI: 10.3758/s13423-013-0459-3 PMID: 23771399, PMCID: PMC3851597
142. Wolfe, J. M., Brunelli, D. N., Rubinstein, J., & Horowitz, T. S. (2013). Prevalence effects in newly trained airport checkpoint screeners: trained observers miss rare targets, too. *J of Vision*, 13(3), 33. DOI: 10.1167/13.3.33 PMID: 24297778, PMCID: PMC3848386
143. Drew, T., & Wolfe, J. M. (2014). Hybrid search in the temporal domain: Evidence for rapid, serial logarithmic search through memory. *Atten Percept Psychophys*, 76(2), 296-303. DOI 10.3758/s13414-013-0606-y, PMID: 24343519 NIHMSID 666128, PMCID: PMC4350328
144. Cunningham, C. A., & Wolfe, J. M. (2014). The role of object categories in hybrid visual and memory search. *J Exp Psychol Gen*. 143(4), 1585-1599 Mar 24. PMID: 24661054, PMCID: PMC4115034
145. Drew, T., Mance, I., Horowitz, T. S., Wolfe, J. M., & Vogel, E. K. (2014). A Soft Handoff of Attention between Cerebral Hemispheres. *Curr Biol*, 24(10), 1133-1137. DOI 10.1016/j.cub.2014.03.054, PMID: 24768055, PMCID: PMC4061693

146. Drew, T., Sherman, A., Boettcher, S. P., & Wolfe, J. (2014). Memory search for the first target modulates the magnitude of the attentional blink. *Memory & Cognition*, 42(8), 1333-1344. DOI: 10.3758/s13421-014-0440-z PMID:24961882, PMCID: PMC4213293
147. Draschkow, D., Wolfe, J. M., & Vo, M. L. (2014). Seek and you shall remember: Scene semantics interact with visual search to build better memories. *J Vis*, 14(8), #10. PMID: 25015385, PMCID: PMC4095720
148. Nordfang, M., & Wolfe, J. M. (2014). Guided Search for Triple Conjunctions Atten Percept Psychophys, 76(6), 1535-1559. DOI: 10.3758/s13414-014-0715-2 PMID: 25015385, PMCID: PMC4095720
149. Wolfe, J. M. (2014). Introduction to the special issue on visual working memory. *Atten Percept Psychophys*, 76(7), 1861-1870. DOI: 10.3758/s13414-014-0783-3. NIHMSID: 637616; PubMed #25341647, PMCID: PMC4234152
150. Sareen, P., Ehinger, K., & Wolfe, J. M. (2015). Through the looking-glass: Objects in the mirror are less real. *Psychonomic Bulletin & Review*, 22(4), 980-986. DOI: 10.3758/s13423-014-0761-8, PMCID: PMC4437972
151. Brand, J., Oriet, C., Johnson, A. P., & Wolfe, J. M. (2014). Flexible cue combination in the guidance of attention in visual search. *Acta Psychologica*, 153(0), 129-138. <http://dx.doi.org/10.1016/j.actpsy.2014.10.002>. PMID: 25463553, PMCID: PMC4318648
152. Hills, T. T., Todd, P. M., Lazer, D., Redish, A. D., Couzin, I. D., & The Cognitive Search Research Group* (*Bateson, M., Cools, R., Dukas, R., Giraldeau, L., Macy, M.W., Page, S.E., Shiffrin, R.M., Stephens, D.W., Uzzi, B., Wolfe, J.W.). (2015). Exploration versus exploitation in space, mind, and society. *Trends in Cognitive Sciences*, 19(1), 46-54. <http://dx.doi.org/10.1016/j.tics.2014.10.004> PMID:25487706, PMCID: PMC4410143
153. Vo, M. L.-H., & Wolfe, J. M. (2015). The role of memory for visual search in scenes. *Ann. N.Y. Acad. Sci.*, 1339, 72-81. PMID: 25684693, PMCID: PMC4376654
154. Hout, M., Walenchok, S., Goldinger, S. D., & Wolfe, J. M. (2015). Failures of perception in the low-prevalence effect: Evidence from active and passive visual search. *J. Exp. Psychol: Human Perception and Performance*, 41(4), 977-994. doi:<http://dx.doi.org/10.1037/xhp0000053>
155. Zhang, J., Gong, X., Fougne, D., & Wolfe, J. M. (2015). Using the past to anticipate the future in human foraging behavior. *Vision Res*, 111, 66-74, [doi:10.1016/j.visres.2015.04.003](https://doi.org/10.1016/j.visres.2015.04.003) PMCID: PMC4442738
156. Boettcher, S., & Wolfe, J. M. (2014). Searching for the right word: Hybrid visual and memory search for words. *Atten Percept Psychophys*, 77(4), 1132-1142. PMID: 25788035, NIHMSID 795636

157. Drew, T., Boettcher, S. P., & Wolfe, J. M. (2015). Searching while loaded: Visual working memory does not interfere with hybrid search efficiency but hybrid search uses working memory capacity. *Psychonomic Bulletin & Review*, 23,1,201-212. Doi: 10.3758/s13423-015-0874-8 PMID: 26055755, PMC4925167
158. Fougnie, D, Cormiea, S. M., Zhang, Z., Alvarez, G.A., Wolfe, J. M. (2015). Winter is coming: How humans forage in a temporally structured environment. *Journal of Vision* 15(11):1. doi: 10.1167/15.11.1. PMID: 26237297 PMCID: PMC4948597
159. Wolfe, J. M., Boettcher, S. E. P., Josephs, E. L., Cunningham, C. A., & Drew, T. (2015). You look familiar, but I don't care: Lure rejection in hybrid visual and memory search is not based on familiarity. *J. Exp. Psychol: Human Perception and Performance*, 41(6), 1576-1587. PMCID: PMC4666773, NIHMSID: NIHMS705808
160. Drew, T., Aizenman, A. M., Thompson, M. B., Kovacs, M. D., Trambert, M., Reicher, M. A., et al. (2016). Image toggling saves time in mammography. *J. Medical Imaging*, 3(1), 011003. doi: 10.1117/1.JMI.3.1.011003 PMID: 26870746, PMCID: PMC4748143
161. Wolfe, J. M., Evans, K. K., Drew, T., Aizenman, A., & Josephs, E. (2015). How do radiologists use the human search engine. *Radiation Protection Dosimetry*. doi: 10.1093/rpd/ncv501 PMID: 26656078 [PubMed - in process]
162. Josephs, E., Drew, T., & Wolfe, J. (2015). Shuffling your way out of change blindness. *Psychonomic Bulletin & Review*, 23(1), 193-200. doi: 10.3758/s13423-015-0886-4 PMID: 26106062 PMCID: PMC4690818
163. Sareen, P., Ehinger, K. A., & Wolfe, J. M. (2015). CB database: A change blindness database for objects in natural indoor scenes. *Behav Res Methods*, 1-6. doi:10.3758/s13428-015-0640-x PMID: 26660198, PMCID: PMC4902788
164. Wen, G., Aizenman, A., Drew, T., Wolfe, J. M., Haygood, T. M., & Markey, M. K. (2016). Computational Assessment of Visual Search Strategies in Volumetric Medical Images. *J. Medical Imaging*, 3(1). DOI: 10.1117/1.JMI.3.1.015501 PMID: 26759815 PMCID: PMC4702525
165. Ehinger, K. A., Allen, K., & Wolfe, J. M. (2016). Change blindness for cast shadows in natural scenes: Even informative shadow changes are missed. *Attention, Perception, & Psychophysics*, 78(4), 978-987. doi: 10.3758/s13414-015-1054-7, PubMed PMID: 26846753; PubMed Central PMCID: PMC4864100.
166. Wolfe, J. M., Aizenman, A. M., Boettcher, S. E. P., & Cain, M. S. (2016). Hybrid Foraging Search: Searching for multiple instances of multiple types of target. *Vision Res*, 119, 50-59. PubMed # 26731644, NIHMSID 753731, PMCID:PMC4754784

167. Wolfe, J. M. (2016). Visual Search Revived: The Slopes Are Not That Slippery: A comment on Kristjansson (2015). *i-Perception*, May-June 2016, 1–6. doi:10.1177/2041669516643244
168. Josephs, E. L., Draschkow, D., Wolfe, J. M., & Võ, M. L. H. (2016). Gist in time: Scene semantics and structure enhance recall of searched objects. *Acta Psychologica*, 169, 100-108. doi:<http://dx.doi.org/10.1016/j.actpsy.2016.05.013> PMID: 27270227
169. Reicher, M. A., & Wolfe, J. M. (2016). Let's Use Cognitive Science to Create Collaborative Workstations. *Journal of the American College of Radiology*, 13(5), 571–575. doi:10.1016/j.jacr.2015.11.023. PMID: 26873029 [PubMed - in process]
170. Evans, K., Haygood, T. M., Cooper, J., Culpan, A.-M., & Wolfe, J. M. (2016). A half-second glimpse often lets radiologists identify breast cancer cases even when viewing the mammogram of the opposite breast *Proceedings of the National Academy of Sciences of the United States of America*, 113(37), 10292–10297. doi: www.pnas.org/cgi/doi/10.1073/pnas.1606187113 PMID: 27573841
171. Vo, M. L., Aizenman, A. M., & Wolfe, J. M. (2016). You think you know where you looked? You better look again. *J. Exp. Psychol: Human Perception and Performance*, 42(10), 1477-1481. <http://dx.doi.org/10.1037/xhp0000264> PMID: 27668308
172. Ehinger, K. A., & Wolfe, J. M. (2016). When is it time to move to the next map? Optimal foraging in guided visual search. *Atten Percept Psychophys*, 78(7), 2135-2151. doi: 10.3758/s13414-016-1128-1 PMID: 27192994, PMC5014635
173. Wolfe, J. M. (2016). Rethinking the basic-applied dichotomy. [journal article]. *Cognitive Research: Principles and Implications*, 1(1), 1-2. doi: 10.1186/s41235-016-0011-x
174. Wolfe, J. M. (2016). Use-inspired basic research in medical image perception. [journal article]. *Cognitive Research: Principles and Implications*, 1(1), 17. doi: 10.1186/s41235-016-0019-2
175. Cunningham, C. A., Drew, T., & Wolfe, J. M. (2016). Analog Computer-Aided Detection (CAD) information can be more effective than binary marks. [journal article]. *Attention, Perception, & Psychophysics*, 1-12. doi: 10.3758/s13414-016-1250-0 PMID: PMC530319, NIHMSID: NIHMS835113
176. Wu, C.-C., & Wolfe, J. M. (2016). Multiple Event Monitoring. *Cognitive Research: Principles and Implications*, 2016, 1-21. doi: doi:10.1186/s41235-016-0022-7
177. Wolfe, J. M., & Horowitz, T. S. (2017). Five factors that guide attention in visual search. [Review Article]. *Nature Human Behaviour*, 1, 0058. doi: 10.1038/s41562-017-0058
178. Wolfe, J. M. (2017). “I am not dead yet!” – The Item responds to Hulleman and Olivers. *Behav Brain Sci*, 48. doi: doi:10.1017/S0140525X16000303, e161

179. Zou, B., Utochkin, I. S., Liu, Y., & Wolfe, J. M. (2017). Binocularity and visual search-Revisited. *Atten Percept Psychophys*, 79(2), 473-483. doi: 10.3758/s13414-016-1247-8
180. Boettcher, S. E. P., Drew, T., & Wolfe, J. M. (2017). Lost in the supermarket: Quantifying the cost of partitioning memory sets in hybrid search. *Memory & Cognition on-line* DOI 10.3758/s13421-017-0744-x
181. Wolfe, J. M., Alaoui-Soce, A., & Schill, H. (2017). How did I miss that? Developing mixed hybrid visual search as a 'model system' for incidental finding errors in radiology. *Cognitive Research: Principles and Implications (CRPI)*, 2, #35. doi: DOI 10.1186/s41235-017-0072-5
182. Zhang, J., Gong, X., Fougne, D., & Wolfe, J. M. (2017). How humans react to changing rewards during visual foraging. *Atten Percept Psychophys*, 79(8), 2299–2309 doi: DOI 10.3758/s13414-017-1411-9
183. Drew, T., Boettcher, S. E. P., & Wolfe, J. M. (2017). One visual search, many memory searches: An eye-tracking investigation of hybrid search. *J. Vis.*, 17(5). doi: doi:10.1167/17.11.5
184. Aizenman, A., Drew, T., Ehinger, K. A., Georgian-Smith, D., & Wolfe, J. M. (2017). Comparing search patterns in digital breast tomosynthesis and full-field digital mammography: an eye tracking study. *J. Med. Imag.*, 4(4), 045501. doi: doi: 10.1117/1.JMI.4.4.045501.
185. Wolfe, J. M., Cain, M. S., & Alaoui-Soce, A. (2018). Hybrid value foraging: How the value of targets shapes human foraging behavior. *Atten Percept Psychophys*, 80(609-621). doi: <https://doi.org/10.3758/s13414-017-1471-x> on line 21 Dec 2017
186. Utochkin, I. S., & Wolfe, J. M. (2018). Visual search for changes in scenes creates long-term, incidental memory traces. [journal article]. *Attention, Perception, & Psychophysics*, 80(4), 829-843. doi: 10.3758/s13414-018-1486-y PMID: 29427122
187. Nordfang, M., & Wolfe, J. M. (2018). Guided search through memory. *Visual Cognition*, 26(4), 285-298. doi: 10.1080/13506285.2018.1439851
188. Wu, C.-C., Alaoui-Soce, A., & Wolfe, J. M. (2018). Event Monitoring: Can we detect more than one event at a time? *Vision Res*, 145, 49-55. doi: <https://doi.org/10.1016/j.visres.2017.10.009>
189. Kok, E. M., Aizenman, A. M., Võ, M. L. H., & Wolfe, J. M. (2017). Even if I showed you where you looked, remembering where you just looked is hard. *Journal of Vision*, 17(12), 2-2. doi: 10.1167/17.12.2

190. Brennan, P. C., Gandomkar, Z., Ekpo, E. U., Tapia, K., Trieu, P. D., Lewis, S. J., et al. (2018). Radiologists can detect the ‘gist’ of breast cancer before any overt signs of cancer appear. *Scientific Reports*, 8(1), 8717. doi: 10.1038/s41598-018-26100-5
191. Chin, M. D., Evans, K. K., Wolfe, J. M., Bowen, J., & Tanaka, J. W. (2018). Inversion effects in the expert classification of mammograms and faces. [journal article]. *Cognitive Research: Principles and Implications (CRPI)*, 3(1), 31. doi: 10.1186/s41235-018-0123-6
192. Wu, C.-C., & Wolfe, J. M. (2017). Comparing eye movements during position tracking and identity tracking: No evidence for separate systems. *Atten Percept Psychophys*, 80(2), 453-460. doi: 10.3758/s13414-017-1447-x.
193. Wu, C. C., & Wolfe, J. M. (2018). A new Multiple Object Awareness paradigm shows that imperfect knowledge of object location is still knowledge". *Curr Biol*, 28, 1-5. doi: <https://doi.org/10.1016/j.cub.2018.08.042>
194. Palmer, E. M., Van Wert, M. J., Horowitz, T. S., & Wolfe, J. M. (2019). Measuring the Time Course of Selection During Visual Search. *Atten Percept Psychophys*, 81(1), 47-60. doi: 10.3758/s13414-018-1596-6
195. Wolfe, J. M., & Utochkin, I. S. (2019). What is a preattentive feature? *Current Opinion in Psychology*, 29, 19-26. doi: <https://doi.org/10.1016/j.copsyc.2018.11.005> PMID: PMC6408307, NIHMSID: NIHMS1517837, PMID: 30603990
196. Wolfe, J. M., Cain, M. S., & Aizenman, A. M. (2019). Guidance and selection history in hybrid foraging visual search. [journal article]. *Atten Percept Psychophys*, 81(3), 637-653. doi: 10.3758/s13414-018-01649-5
197. Wick, F. A., Alaoui Soce, A., Garg, S., Grace, R. C., & Wolfe, J. M. (2019). Perception in dynamic scenes: What is your Heider capacity? *Journal of Experimental Psychology: General*, 148(2), 252-271. doi: 10.1037/xge0000557 10.1037/xge0000557.supp
198. Wiegand, I., & Wolfe, J. M. (2019). Age doesn't matter much: hybrid visual and memory search is preserved in older adults. *Aging, Neuropsychology, and Cognition*, 27:2, 220-253. doi: 10.1080/13825585.2019.1604941
199. Evans, K. K., Culpan, A.-M., & Wolfe, J. M. (2019). Detecting the “gist” of breast cancer in mammograms three years before localized signs of cancer are visible. *The British Journal of Radiology*, Published Online: June 05, 2019 20190136. doi: 10.1259/bjr.20190136
200. Wu, C.-C., & Wolfe, J. M. (2019). Eye Movements in Medical Image Perception: A Selective Review of Past, Present and Future. *Vision*, 3(2). doi: 10.3390/vision3020032
201. Schill, H. M., Cain, M. S., Josephs, E. L., & Wolfe, J. M. (2020). Axis of rotation as a basic feature in visual search. *Attention, Perception, & Psychophysics*, 82(1), 31-43. doi: 10.3758/s13414-019-01834-0

202. Reijnen, E., Kühne, S. J., Stöcklin, M., & Wolfe, J. M. (2019). Choosing or Rejecting a Food Item, Does Framing Matter? And What Has Sugar to Do With it! *Appetite*, 143. doi: <https://doi.org/10.1016/j.appet.2019.104410>
203. Wu, C.-C., D'Ardenne, N. M., Nishikawa, R. M., & Wolfe, J. M. (2019). Gist processing indigital breast tomosynthesis. *J. Med. Imag.*, 7(2), 022403. doi: 10.1117/1.JMI.7.2.022403
204. Wiegand, I., Seidel, C., & Wolfe, J. M. (2019). Hybrid Foraging Search in Younger and Older Age. *Psychology and Aging*, 34(6), 805-820.
205. Wolfe, J. M. (2020). Forty years after feature integration theory: An introduction to the special issue in honor of the contributions of Anne Treisman. *Attention, Perception, & Psychophysics*, 82(1), 1-6. doi: 10.3758/s13414-019-01966-3
206. Wolfe, J. M. (2020). Major issues in the study of visual search: Part 2 of "40 Years of Feature Integration: Special Issue in Memory of Anne Treisman". *Attention, Perception, & Psychophysics*, 82(2), 383-393. doi: 10.3758/s13414-020-02022-1
207. Gil-Gómez de Liaño, B., Quirós-Godoy, M., Pérez-Hernández, E., & Wolfe, J. M. (2020). Efficiency and accuracy of visual search develop at different rates from early childhood through early adulthood. [journal article]. *Psychonomic Bulletin & Review*, 27, 504-511. doi: 10.3758/s13423-020-01712-z
208. Kosovicheva, A., Alaoui-Soce, A., & Wolfe, J. M. (2020). Looking ahead: When do you find the next item in foraging visual search? *Journal of Vision*, 20(2), 3-3. doi: 10.1167/jov.20.2.3
209. Li, A., Wolfe, J. M., & Chen, Z. (2020). Implicitly and explicitly encoded features can guide attention in free viewing. *Journal of Vision*, 20(6), 8-8. doi: 10.1167/jov.20.6.8
210. Yang, Y.-H., & Wolfe, J. M. (2020). Is apparent instability a guiding feature in visual search? *Visual Cognition*, 1-21. doi: 10.1080/13506285.2020.1779892
211. Nartker, M., Alaoui-Soce, A., & Wolfe, J. M. (2020). Visual search errors are persistent in a laboratory analog of the "incidental finding" problem. *Cognitive Research: Principles and Implications (CRPI)*, 5, 32. doi: <https://doi.org/10.1186/s41235-020-00235-4>
212. Utochkin, I. S., Khvostov, V. A., & Wolfe, J. M. (2020). Categorical grouping is not required for guided conjunction search. *Journal of Vision*, 20(8), 30-30. doi: 10.1167/jov.20.8.30
213. Wolfe, J. M. (2021). Guided Search 6.0: An updated model of visual search. *Psych Bulletin & Review, Online First*, 1-33. doi: 10.3758/s13423-020-01859-9

Papers in press

Schill, H., Wolfe, J. M., & Brady, T. F. (2021). Relationships between expertise and distinctiveness: abnormal medical images lead to enhanced memory performance only in experts *Mem Cognit, in press*.

Published Conference Proceedings

1. Wolfe JM. Three aspects of the parallel guidance of visual attention. Proceedings of the 12th Annual Conference of the Cognitive Science Society; 1990 July 1048-1049; Cambridge, MA; 1990.
2. Wolfe J. A new psychophysical method to assess ocular light scatter. Proceedings of the Non-Invasive Assessment of the Visual System meeting; 1992 Jan 175-178; Santa Fe, NM. Optical Society of America;1992.
3. Wolfe JM. Guided Search 2.0: The Upgrade. Proc. of the Human Factors and Ergonomics Society, 37th annual meeting;1993 1295-1299; Seattle, WA.
4. Magnante P, Noonan C, Wolfe J, Chylack L. Line spread function and glare disability measurements of cataractous eye. Proceedings of the Non-Invasive Assessment of the Visual System meeting;1995 Feb ...; Santa Fe, NM. Optical Society of America;1995.
5. Wolfe JM. The deployment of visual attention: Two surprises. In NATO-RTO (Ed.). Search and Target Acquisition. Paper presented at the NATO-RTO Search and Target Acquisition Meeting; 1999 June 21-23; Utrecht, Netherlands. Utrecht: Netherlands; 2000. p. 20.11-20.21.
6. Wolfe, J. M. (2005). How might the rules that govern visual search constrain the design of visual displays? *2005 Society for Information Display, International Symposium Digest of Technical Papers*, 2, 1395-1397.
7. Fencsik, D. E., Urrea, J., Place, S. S., Wolfe, J. M., & Horowitz, T. S. (2006). Velocity cues improve visual search and multiple object tracking. *Visual Cognition*, 14, 92-95 (OPAM, 2005)
8. Wolfe, J. M., Horowitz, T. S., & Van Wert, M. J. (2006). *The Prevalence Problem in Visual Search*. Paper presented at the The 4th International Aviation Security Technology Symposium, Washington, DC.

9. Vo, M. L. H., & Wolfe, J. M. (2010). The role of incidental object fixations in repeated search: Looking AT versus looking FOR an object in a scene. *Visual Cognition*, 18(10), 1533-1536. (OPAM 2011)
10. Cunningham, C. A., & Wolfe, J. M. (2012). Lions or tigers or bears: Oh my! Hybrid visual and memory search for categorical targets. *Visual Cognition*, 20(9), 1024-1027. (OPAM 2012)
11. Boettcher, S. E. P., T. Drew, et al. (2013). "Hybrid search in context: How to search for vegetables in the produce section and cereal in the cereal aisle." *Visual Cognition* 21(6): 678-682. (OPAM 2013)
12. Suzuki, M., Wolfe, J. M., Horowitz, T. S., & Noguchi, Y. (2013). Disruption of visual search by the misbinding illusion (pp. 1–4). *The Japanese Journal of Psychonomic Science*.
13. Wolfe, J. M. (2014). Visual search from lab to clinic and back. *Proc. SPIE 9037, Medical Imaging 2014: Image Perception, Observer Performance, and Technology Assessment*, (Vol. 9037, pp. 903702-903702-903708 (March 11, 2014); doi:10.1117/12.2048767.
14. D'Ardenne, N. M., Nishikawa, R. M., Wu, C. C., & Wolfe, J. M. (2019, 6 - 21 February 2019). *Occulomotor Behavior of Radiologists Reading Digital Breast Tomosynthesis (DBT)*. Paper presented at the *Medical Imaging 2019: Image Perception, Observer Performance, and Technology Assessment*; San Diego, California, United States. .
15. Semizer, Y., Michel, M. M., Evans, K. K., & Wolfe, J. M. (2018). Texture as a diagnostic signal in Mammograms. *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*, Madison, WI: Cognitive Science Society (pp. 1043-1048).
16. Gandomkar, Ziba, Ernest U. Ekpo, Sarah J. Lewis, Karla K. Evans, Kriscia A. Tapia, PhuongDung Trieu, Jeremy M. Wolfe, and Patrick C. Brennan. "Does the strength of the gist signal predict the difficulty of breast cancer detection in usual presentation and reporting mechanisms?." In *Medical Imaging 2019: Image Perception, Observer Performance, and Technology Assessment*, vol. 10952, p. 1095203. *International Society for Optics and Photonics*, 2019.

Book Chapters

1. Wolfe JM, and Blake R. Dissecting the binocular visual system with psychophysical tools. In: Rose D, and Dobson VG, editors. *Models of Visual Cortex*. New York:Wiley and Sons; 1985. P.192-199.
2. Wolfe JM. Visual Perception. In: Adelman G, editor. *Encyclopedia of Neuroscience*. Birkhauser: Boston Inc.;1987. P.1282-1283.

Reprinted in Held RM, editor. *Sensory Systems I: Vision. Readings from the Encyclopedia of Neuroscience*. Birkhauser: Boston Inc;1988.

3. Wolfe JM. Visual Aftereffects. In: Adelman G, editor. *Encyclopedia of Neuroscience*. Birkhauser: Boston Inc.;1987. p.1266-1267.

Reprinted in Held RM, editor. *Sensory Systems I: Vision. Readings from the Encyclopedia of Neuroscience*. Birkhauser: Boston Inc; 1988.

4. Wolfe JM. Where is eidetic imagery? Speculations on its psychophysical and neuropsychological locus. In: Obler L, and Fein D, editors. *The Exceptional Brain: Neuropsychology of Talent and Special Abilities*. Guilford:NY;1988. p. 242-250.

5. Wolfe JM. An introduction to contrast sensitivity testing. In: Nadler P, Miller D, and Nadler P, editors. *Glare and Contrast Sensitivity for Clinicians*. New York: Springer Verlag;1989. p. 5-23.

6. Wolfe JM. The psychoanatomy of binocular single vision. In: Obrecht G, & Stark LW, Editors. *Presbyopia Research: From molecular biology to visual adaptation*. New York: Plenum Press.1991. p. 199-216.

7. Wolfe JM, and Cave KR. Deploying visual attention: The Guided Search Model. In: Blake, and Troscianko, editors. *AI and the Eye*. New York:Wiley and Sons; 1990. p. 79-103.

8. Wolfe JM, Chun MM, & Friedman-Hill SR. Making use of texture gradients: Visual search and perceptual grouping exploit the same parallel processes in different ways. In: Pappathomas T, Editor. *Early vision and beyond*. Cambridge, MA: MIT Press.1994. p.189-198.

9. Wolfe JM. Extending Guided Search: Why Guided Search needs a preattentive "item map". In: Kramer A, Cole GH, & Logan GD, editors. *Converging operations in the study of visual selective attention*. Washington, DC: American Psychological Association;1996. p. 247-270.

10. Wolfe JM. Visual search. In: Pashler H, editors. *Attention*. Hove, East Sussex, UK: Psychology Press Ltd;1998. p.13-74.

11. Wolfe JM, & Gancarz G. Guided Search 3.0: A model of visual search catches up with Jay Enoch 40 years later. In: Lakshminarayanan V, editor. *Basic and Clinical Applications of Vision Science*. Dordrecht, Netherlands: Kluwer Academic;1996. p.189-192.

12. Wolfe JM. Inattentional amnesia. In: Coltheart V, editor. *Fleeting Memories*. Cambridge, MA: MIT Press;1999. . p. 71-94.

13. Wolfe JM. Visual search: Preattentive processing and the guidance of visual attention. In: Taddei-Ferretti C, & Musio C, editors. *Neuronal basis and psychological aspects of consciousness*. Singapore: World Scientific;1999. Vol. 8 p.144-164.
14. Wolfe JM. Visual experience: Less than you think, more than you know. In: Taddei-Ferretti C, & Musio C, editors. *Neuronal basis and psychological aspects of consciousness*. Singapore: World Scientific;1999. Vol. 8, p.165-185.
15. Wolfe J. Visual Attention. In: De Valois KK, editor. *Seeing*. 2nd ed. San Diego, CA: Academic Press; 2000. p. 335-386.
16. Chun, M. M., & Wolfe, J. M. Visual Attention. In E. B. Goldstein (Ed.), *Blackwell's Handbook of Perception*, 2001 Vol. Ch 9, pp. 272-310). Oxford, UK: Blackwell.
17. Moore, C. M., & Wolfe, J. M. (2001). Getting beyond the serial/parallel debate in visual search: A hybrid approach. In K. Shapiro (Ed.), *The Limits of Attention: Temporal Constraints on Human Information Processing* (pp. 178-198). Oxford: Oxford U. Press.
18. Wolfe, J. M. (2003). The level of attention: Mediating between the stimulus and perception. In L. Harris (Ed.), *Levels of Perception: a Festschrift for Ian Howard* (pp. 169-192). New York: Springer Verlag.
19. Wolfe, J. M. (2005). Guidance of Visual Search by Preattentive Information. In L. Itti & G. Rees & J. Tsotsos (Eds.), *Neurobiology of attention* (pp. 101-104). San Diego, CA: Academic Press / Elsevier.
20. Horowitz, T. S., & Wolfe, J. M. (2005). Visual Search: The role of memory for rejected distractors. In L. Itti & G. Rees & J. Tsotsos (Eds.), *Neurobiology of attention* (pp. 264-268). San Diego, CA: Academic Press / Elsevier. (NOTE: Sadly, my name was left off the final, published version – a lesson to us all to read our proofs with care!)
21. Wolfe, J. M. (2007). Guided Search 4.0: Current Progress with a model of visual search. In W. Gray (Ed.), *Integrated Models of Cognitive Systems* (pp. 99-119). New York: Oxford.
22. Wolfe, J. M., & Reynolds, J. H. (2008). Visual Search. In A. I. Basbaum, A. Kaneko, G. M. Shepherd & G. Westheimer (Eds.), *The Senses: A Comprehensive Reference* (Vol. Vol 2, Vision II, pp. 275-280). San Diego: Academic Press.
23. Wolfe, J. M., Horowitz, T. S., Palmer, E. M., Michod, K. O., & VanWert, M. J. (2010). Getting in to Guided Search. In V. Coltheart (Ed.), *Tutorials in Visual Cognition*. Hove, Sussex: Psychology Press. Pp 93-120
24. Wolfe, J. M. (2011). Visual search: Is it really a matter of life and death? *Psychology and the real world: Essays illustrating fundamental contributions to society*. M. A. Gernsbacher, Pew, R.W., Hough, L. M., & Pomerantz, J.R. (eds) New York, Worth Publishers: pp47-54.

25. Howe, P. D., Evans, K. K., Pedersini, R., Horowitz, T. S., Wolfe, J. M., & Cohen, M. (2009). Attention: Selective Attention and Consciousness. In W. P. Banks (Ed.), *Encyclopedia for Consciousness*. (Vol. 1, pp. 61-75). Oxford: Elsevier, UK.
26. Evans, K. K., Horowitz, T. S., Howe, P. D., Pedersini, R., Reijnen, E., Pinto, Y., et al. (2011). Visual attention. In L. Nadel (Ed.), *Wiley Interdisciplinary Reviews: Cognitive Science*. 2(5), 503-514.
27. Wolfe, J. M. (2012). Visual Search. In P. M. Todd, T. T. Hills & T. W. Robbins (Eds.), *Cognitive Search: Evolution, Algorithms, and the Brain* (pp. 159-176). Cambridge, MA: MIT Press.
28. Pachur, T., Raaijmakers, J. G. W., Davelaar, E. J., Daw, N. D., Dougherty, M. R., Hommel, B., et al. (2012). Unpacking Cognitive Search: Mechanisms and Processes. In P. M. Todd, T. T. Hills & T. W. Robbins (Eds.), *Cognitive Search: Evolution, Algorithms, and the Brain* (pp. 237-255). Cambridge, MA: MIT Press.
29. Wolfe, J. M. (2012). When do I quit? The search termination problem in visual search. *Nebr Symp Motiv*, 59, 183-208. <http://www.ncbi.nlm.nih.gov/pubmed/23437634>
59th Annual Nebraska Symposium on Motivation: The Influence of Attention, Learning, and Motivation on Visual Search. PubMed # [23437634](https://pubmed.ncbi.nlm.nih.gov/23437634/), NIHMSID #[564005](https://pubmed.ncbi.nlm.nih.gov/23437634/), PMC3979292
30. Wolfe, J. M. (2012). The rules of guidance in visual search. In *Lecture Notes in Computer Science, 7143 (Indo-Japan conference on Perception and Machine Intelligence)*, 1-10.
31. Wolfe, J. M. (2014). Approaches to Visual Search: Feature Integration Theory and Guided Search. In A. C. Nobre & S. Kastner (Eds.), *Oxford Handbook of Attention* (pp. 11-55). New York: Oxford U Press.
32. Wolfe, J. M. (2012). Establishing the field: Treisman and Gelade (1980). In J. M. Wolfe & L. C. Robertson (Eds.), *From Perception to Consciousness: Searching with Anne Treisman* (pp. 97-103). New York: Oxford U Press.
33. Wolfe, J. M., Drew, T., & Boettcher, S. E. P. (2014). Hybrid Search: Picking up a thread from Schneider and Shiffrin (1977). In J. Raaijmakers (Ed.), *Cognitive Modeling in Perception and Memory: A Festschrift for Richard M. Shiffrin*. New York: Psychology Press.
34. Wolfe, J. M. (2014). Theoretical and behavioral aspects of selective attention. In Gazzaniga, M.S. and Mangun, G.R. (Eds), *The Cognitive Neurosciences*, fifth edition. Cambridge, MA: MIT Press.
35. Wolfe, J. M. (2015). Visual Search. In E. R. Jonathan Fawcett, and Alan Kingstone (Ed.), *The Handbook of Attention* (pp. 27-56). Cambridge, MA: MIT Press.

36. Wolfe, J. M. (2014). Visual search: Is it really a matter of life and death? Psychology and the real world: Essays illustrating fundamental contributions to society. (2nd Edition) FABBS Foundation , Morton Ann Gernsbacher, James R. Pomerantz (eds) New York, Worth Publishers: pp48-57 ISBN-13: 978-1-4641-7395-0.

37. Wolfe, J. M. (2017). Visual Search. In J. Wixted) (Ed.), Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience (Vol. II. Sensation, Perception & Attention: John Serences (UCSD)): Wiley.

38. Wolfe, J. M. (2018). How to find a yellow volkswagen. In J. M. Brown (Ed.), Pioneer Visual Neuroscience: A Festschrift for Naomi Weisstein. New York: Routledge.

39. Wolfe, J. M., Evans, K. K., & Drew, T. (2018). The first moments of medical image perception. In E. Samei & E. A. Krupinski (Eds.), The Handbook of Medical Image Perception and Techniques (2 ed., pp. 188-196). Cambridge: Cambridge University Press.

National Academy of Sciences Reports

1. National Academy of Sciences report "2009-2010 Assessment of the Army Research Laboratory". Authored by the Army Research Laboratory Technical Assessment Board Primary contribution, Chapter 3 "Human Research and Engineering Directorate" release date Jan 1, 2011, ISBN 0-309-21140-9

2. National Academy of Sciences report "2011-2012 Assessment of the Army Research Laboratory". Authored by the Army Research Laboratory Technical Assessment Board Primary contribution, Chapter 3 "Human Research and Engineering Directorate" pp 44-60, release date 2013, ISBN 0-309-26899-0

Book Reviews, Editorials, and other short pieces

As editor of Attention, Perception, & Psychophysics (2008-2015), I had editorials and/or "News from the Field" reports in almost every issue of the journal.

1. Wolfe JM. The blue arcs: An electrifying visual phenomenon. Optics and Photonics News;1991 May 2(5):58-59.

2. Wolfe JM.Thinking about color. A review of Davidoff,1992. Cognition through color. Cambridge, MA: MIT Press. Contemporary Psychology;1993, 38 (9): 924-925.

3. Wolfe JM.Texture and visual search: A special issue in honor of Bela Julesz. Spatial Vision;1993.7(4):275-276.

4. Wolfe JM. A book review of Visual Search 2. Optometry and Vision Science;1994. 71(5):356-357.

5. Wolfe JM. A book review of Visual Search 2. *The Physiologist*;1994.
NOTE: This review is similar but not identical to the review in *Optom. and Vis. Sci*
6. Wolfe JM. Dining with Julesz - a review of *Dialogues on Perception*. *Nature*;1995 Jan. 373(26):295.
7. Wolfe JM. Vision: Resolving perceptual ambiguity. *Nature*, 380,1996 April, 587-588.
8. Wolfe JM. Several entries for the *Dictionary of Biological Psychology*, In: Winn P, editor. Routledge, London;1997.
9. Wolfe JM. In a blink of the mind's eye. *Nature*1997, 19 June 387:756-757. Translated into Russian by Maria Falikman (2011)
10. Wolfe JM. (2000). Visual Search, Entry for the *APA Encyclopedia of Psychology*.
11. Wolfe JM. Visual Memory: What do you know about what you saw. *Current Biology* 1998; 8(9):R303-304.
12. Wolfe JM. How do you pay attention? *Nature*1999 Aug 26, 400: 813-815.
13. Wolfe J, & O'Craven K. Attention. In: Geller E, editor. *McGraw-Hill Yearbook of Science and Technology: 2001*. New York: McGraw-Hill; 2001. 34-36
14. Wolfe, J. M. (2004). Looking at your self: Review of "The Quest for Consciousness" by C. Koch. *Nat Neurosci*, 7(6), 565.
15. Wolfe, J. M. (2005). Watching single cells pay attention. *Science*, 308, 503-504.
16. Wolfe, J. M. (2006). Cells that know when to quit. *Nat Neurosci*, 9(8), 984-985.
17. Wolfe, J. M. (2006) Correspondence. *Nature*, 44, 31 (2 Nov 2006) (Note: This may be the shortest 'publication' ever seen in Nature.)
18. Wolfe, J. M., & Horowitz , T. S. (2008). Visual Search. *Scholaropedia*, 3(7):3325 http://www.scholarpedia.org/article/Visual_search
19. Wolfe, J. M. (2008). Discourse. *Daylight & Architecture* (Issue 7, Winter 2008), 1.
20. Photography changes what and how much we remember. Part of "Click: Photography changes everything" <http://www.click.si.edu/Story.aspx?story=769>
21. Wolfe, J. M. (2010). Visual search. [doi: DOI: 10.1016/j.cub.2010.02.016]. *Current Biology*, 20(8), R346-R349. PMC5678963

22. Wolfe, J. M. (2011). Explicit Expectations and the Effects of Prevalence. *Radiology*, 261(1), 328. PMID: 21931146 [PubMed - indexed for MEDLINE]
23. Response by Katherine P. Andriole, Jeremy M. Wolfe, David J. Getty, et al. to Berbaum, K. S., Franken, E. A., (2011). Satisfaction of Search in Radiographic Modalities. *Radiology*, 261(3), 1000-1001.
24. Wolfe, J. M. (2012). The binding problem lives on: comment on Di Lollo. *Trends Cogn Sci*, 16(6), 307-308. <http://dx.doi.org/10.1016/j.tics.2012.04.013> PMID: 22579974 [PubMed - indexed for MEDLINE]
25. Wolfe JM. (2011) Editorial: Ideological purity not required. *Atten Percept Psychophys*. 2011 Aug;73(6):1631. doi: 10.3758/s13414-011-0178-7. PMID: 21751049 [PubMed - indexed for MEDLINE]
26. Wolfe, JM (2015). Visual Attention. In J. Rennie (Ed.), *McGraw-Hill Yearbook of Science and Technology: 2015* (pp. 376-378). New York: McGraw-Hill.
27. Wolfe, JM (2015). Q & A: Jeremy Wolfe, *Current Biology* 25, R348-R349 DOI: 10.1016/j.cub.2015.02.028
28. Wolfe, J. M. (2017). Visual Attention: Size Matters. *Current Biology*, 27(18), R1002-R1003. doi: <https://doi.org/10.1016/j.cub.2017.07.057>
29. Wolfe, J. M. (2017). “I am not dead yet!” – The Item responds to Hulleman & Olivers. *Behavioral and Brain Sciences*, 40, e161. Doi: <https://doi.org/10.1017/S0140525X16000303>
30. Wolfe, J. M., & Kanwisher, N. G. (2017). Not your parent’s NIH clinical trial. *Nature Human Behaviour*. doi: 10.1038/s41562-017-0262-7
31. Wolfe, J. M. (2018). In dialogue with the NIH on clinical trials policy. *Nature Human Behaviour*, 2(2), 100-102. doi: 10.1038/s41562-018-0303-x
32. Wolfe, J. M. (2018). Ann Treisman (1935-2018). *Current Biology*, 28(8), R329-R331. doi: 10.1016/j.cub.2018.03.009
33. Wolfe, J. M. (2018). Everything is Foreseen, Yet Free will is Given (Mishna Avot 3:15) *Journal of Cognition*, 1(1), 22. doi: <http://doi.org/10.5334/joc.27>
34. Wolfe, J. M. (2019). Visual Attention: The Multiple Ways in which History Shapes Selection. *Curr Biol*, 29, R155-R156.
35. Sitek, A., & Wolfe, J. M. (2019). Assessing Cancer Risk from Mammograms: Deep Learning Is Superior to Conventional Risk Models. *Radiology*, 190791. doi: 10.1148/radiol.2019190791

Blog Postings include

9/27/10

<http://www.psychologytoday.com/blog/the-object-attention/201009/why-are-dead-elephants-easy-find>

Books

1. Wolfe JM (ed). *The Mind's Eye*. San Francisco: Freeman; 1986.
2. Wolfe JM (ed). *Sensory Systems II: Senses Other Than Vision*. Readings from the *Encyclopedia of Neuroscience*. Boston, MA: Birkhauser Boston Inc.;1988.
3. Wolfe JM, and Sandberg J. *What is Where and Why do I Care?: A Library Guide for Psychology Students*. New York: Macmillan;1992.
4. Wolfe, J. M., Kluender, K. R., Levi, D. M., Bartoshuk, L. M., Herz, R. S., Klatzky, R. L., et al. (2006). *Sensation & Perception*. Sunderland, MA: Sinauer Associates.
5. Wolfe, J. M., Kluender, K. R., Levi, D. M., Bartoshuk, L. M., Herz, R. S., Klatzky, R. L., et al. (2009). *Sensation & Perception*. 2nd Edition Sunderland, MA: Sinauer Associates.
6. Wolfe, J. M., Kluender, K. R., Levi, D. M., Bartoshuk, L. M., Herz, R. S., Klatzky, R. L., et al. (2012). *Sensation & Perception*. 3rd Edition Sunderland, MA: Sinauer Associates.
7. Wolfe, J. M., & Robertson, L. C. (2012). *From Perception to Consciousness: Searching with Anne Treisman*. Oxford, UK: Oxford U.Press.
8. Wolfe, J. M., Kluender, K. R., Levi, D. M., Bartoshuk, L. M., Herz, R. S., Klatzky, R. L., et al. (2015). *Sensation & Perception*. 4th Edition Sunderland, MA: Sinauer Associates.
9. Wolfe, J. M., Kluender, K. R., Levi, D. M., Bartoshuk, L. M., Herz, R. S., Klatzky, R. L., et al. (2018). *Sensation & Perception*. 5th Edition Sunderland, MA: Sinauer Associates (an imprint of Oxford University Press)
10. Wolfe, J. M., Kluender, K. R., Levi, D. M., Bartoshuk, L. M., Herz, R. S., Klatzky, R. L., et al. (2021). *Sensation & Perception*. 6th Edition Sunderland, MA: Sinauer Associates (an imprint of Oxford University Press)

Other Publications

1. Wolfe, J. M., Brunelli, D. N., Horowitz , T. S., & Rubinstein, J. (2011). Prevalence Effects in Newly-Trained Airport Checkpoint Screeners. Department of Homeland Security internal report. NOTE: This report is deemed “security sensitive”.

Thesis

Wolfe JM On binocular single vision [dissertation]. Cambridge, MA: Massachusetts Institute of Technology

Published Abstracts ()

1. Wolfe JM. Apparent growth under conditions of flickering illumination: A new visual illusion. Association for Research in Vision and Ophthalmology (ARVO) Regional Meeting, Atlantic Section, November 1976.
2. Kinchla RA, and Wolfe JM. The order of visual processing: "Top-down", "bottom-up", or "middle-out". Annual Meeting of the Psychonomic Society, Washington, D.C., November 1977.
3. Wolfe JM, and Owens DA. Binocular summation for ocular torsion survives functional and optically induced stereoblindness. Annual Meeting of the American Academy of Optometry, Boston, MA, December 1978.
4. Wolfe JM, and Held R. Effects of ocular cyclotorsion and change in perceived horizontal produced by viewing a large rotating field involve separate binocular mechanisms. Annual Meeting of Eastern Psychological Association (EPA), Philadelphia, PA, April 1979.
5. Wolfe JM, Held R, and Owens DA. New Evidence for more than one binocular process in man. ARVO Annual Meeting, Sarasota, Fla. May 1979.
6. Gwiazda J, Brill S, Wolfe JM, and Held R. Preferential looking reverses at near threshold spatial frequencies. ARVO Annual Meeting, Sarasota, Florida, May 1979.
7. Wolfe JM. Functionally different binocular sites in the visual system. Paper presented in symposium: Dissociation of function at multiple levels in the visual system. At annual meeting of the American Psychological Association, New York, NY, September 1979.
8. Wolfe JM, Held R, and Bauer JA. Optokinetic nystagmus (OKN) is mediated by a binocular process. Annual meeting of the Optical Society of America (OSA), Rochester, NY October 1979.
9. Owens DA, and Wolfe JM. Ocular accommodation for flickering gratings. OSA Annual Meeting, Rochester, NY, October 1979.
10. Wolfe JM, and Held R. Interocular transfer of the tilt aftereffect can be blocked by artificial anisometropia in normal adults. EPA Annual Meeting, Hartford, CN, April, 1980.
11. Wolfe JM, and Owens DA. Is Accommodation colorblind? Focusing isoluminant contours. OSA Topical Meeting, "Recent progress in vision", Sarasota, FL, April, 1980.
12. Wolfe JM, and Held R. Cortical binocularity is reversibly disrupted by artificial anisometropia in adults. OSA Topical Meeting, Sarasota, FL April, 1980.
13. Wolfe JM, and Held R. When two eyes are no better than one: Blocking interocular transfer of the tilt aftereffect. ARVO Annual Meeting, Orlando, FL, May 1980.

14. Wolfe JM, Held R, and Liao A. Binocular interaction and the perception of self-motion. NATO Symposium on the Study of Motion Perception, Veldhoven, The Netherlands, August 1980.
15. Wolfe JM, and Owens DA. Isoluminant contours are not an effective stimulus for monocular accommodation. European Conference on Visual Perception, University of Sussex, Brighton, England, September, 1980.
16. Wolfe JM, and Held R. Binocular versus interocular transfer of the tilt aftereffect. OSA Annual Meeting, Chicago, IL, October, 1980.
17. Wolfe JM, and Held R. Different adapting stimuli produce different tilt aftereffects. EPA Annual Meeting, New York, April, 1981.
18. Owens DA, Wolfe JM, and Bauer JA. A critical flicker frequency for convergence. ARVO Annual Meeting, Sarasota, FL, April, 1981.
19. Wolfe JM, and Held R. Binocular adaptation that cannot be measured monocularly. ARVO Annual Meeting, Sarasota, FL, April, 1981.
20. Wolfe JM. When rivalry fails: The false fusion phenomenon and the temporal course of suppression. The 5th European Conference on Visual Perception, Leuven, Belgium, September, 1982.
21. Wolfe JM. A novel form of binocular masking related to binocular rivalry. OSA Annual Meeting, Tuscon, AZ, October, 1982.
22. Held R, and Wolfe JM. Very brief test stimuli produce very large tilt aftereffects. ARVO Annual Meeting, Sarasota, FL, May, 1983.
23. Wolfe JM. A transient elimination of suppression in stereoblind subjects. ARVO Annual Meeting, Sarasota, FL, May, 1983.
24. Wolfe JM. Probing the visual system with the tilt aftereffect. Psychonomic Society Annual Meeting, San Diego, CA, November 1983.
25. Wolfe JM. A 500 msec exposure to an adapting pattern can produce a large tilt aftereffect (TAE): Evidence against a simple fatigue model. ARVO Annual Meeting, Sarasota, FL, May 1984.
26. Wolfe JM. A constructive model of visual aftereffects. The 7th European Conference on Visual Perception, Cambridge, England, September, 1984.
27. Wolfe JM, Turner D, and Maunsell J. Troxler fading along different ocular meridians. The 7th European Conference on Visual Perception, Cambridge, England, September 1984.

28. Wolfe JM. Independent pathways for stereopsis and binocular rivalry. EPA, Boston, March 1985.
29. Wolfe JM. Fatigue and structural change: Two consequences of visual pattern adaptation. ARVO, Sarasota, FL, May, 1985.
30. Held R, Wolfe J, and Shimojo S. Binocular rivalry from zero-contrast contours. ARVO, Sarasota, FL, May 1985.
31. Wolfe J. M. Short-term adaptation does not null long-term visual aftereffects. OSA, Washington, D.C., October 1985.
32. Wolfe, J. M. The trinocular vision demonstration. Psychonomic Society, Boston, November 1985.
33. Wolfe JM. Vernier acuity and spatial frequency adaptation. ARVO, Sarasota, FL, April 1986.
34. Wolfe JM. Long term visual aftereffects: Structural change in the human visual cortex? Society for Neuroscience, Washington, DC, November 1986.
35. Wolfe JM. Is binocular rivalry before or after the boundary between parallel and serial processing? ARVO, Sarasota, FL, May 1987. Investigative Ophthalmology and Visual Science, 28(supplement), 295.
36. Wolfe JM. The long and short of visual aftereffects. APA Annual Meeting, New York, August 1987.
37. Wolfe JM. Independence of color and form in binocular rivalry in the periphery. OSA Annual Meeting, Rochester, NY, October 1987.
38. Wolfe JM, Franzel SL, and Cave KR. Parallel visual search for conjunctions of form and color. OSA Annual Meeting, Rochester, NY, October 1987.
39. Wolfe JM, Cave KR, and Franzel SL. Parallel visual search for conjunctions of form and color. Psychonomic Society Annual Meeting, Seattle, WA, October 1987.
40. Wolfe JM, and Cave KR. Parallel processes can help serial processes in visual search. Investigative Ophthalmology and Visual Science, 29(supplement), 407. ARVO, Sarasota, FL, May 1988.
41. Wolfe JM, and Pruszenski A. Visual search for conjunctions within a dimension is harder than search for conjunctions across dimensions. The 11th European Conference on Visual Perception, Bristol, England, September 1988.

42. Wolfe JM, Yu KP, Pruszenski AD, and Cave KR. A pre-attentive feature process can execute only one command at a time. Psychonomic Society Annual Meeting, Chicago, IL, November 1988.
43. Wolfe JM, Yu KP, and Cave KR. Directing attention to complex objects. Society for Neuroscience Annual Meeting, Toronto, November 1988.
44. Wolfe JM. Visual Attention. EPA annual meeting, Boston, April, 1989.
45. Wolfe JM, Yu KP, Pruszenski AD, Treue F, and Cave KR. Limits on guidance of visual attention by parallel feature processes. Investigative Ophthalmology and Visual Science, 30(supplement), 159. ARVO, Sarasota, FL, May 1989.
46. Wolfe JM. The psychoanatomy of binocular single vision. Fourth International Conf. on Presbyopia, Marrakesh, Morocco June, 1989.
47. Wolfe JM, Yu KP, and Stewart MI. Parallel search for two examples of one feature type. Psychonomic Society Annual Meeting, Atlanta, GA, November 1989.
48. Wolfe JM, and Yee A. Is curvature a basic feature in visual search? EPA annual meeting, Philadelphia, April, 1990.
49. Wolfe JM, Jackson SV, Stewart MI, and Friedman SR. Top-down control of visual search for orientation is categorical. Investigative Ophthalmology and Visual Science, 31(supplement), 563. ARVO, Sarasota, FL, May 1990.
50. Bartoshuk LM, and Wolfe JM. Conditioned "taste" aversions in humans: Are they olfactory aversions? Assoc of Chemoreception Sciences 12th annual meeting Sarasota, FL April, 1990 abstract published in Chemical Senses Vol 15, 1990.
51. Newman NJ, Wolfe JM, Lessell S, and Stewart MI. Binocular visual function in patients with a history of monocular optic neuritis. Presented at the Neuroophthalmological Meeting, Winchester, UK, June, 1990.
52. Roorda J, and Wolfe JM. The McCollough Effect is a by-product of internal error-correcting mechanisms. presented at the OSA Annual Meeting, Boston, Oct. 1990.
53. Wolfe JM, Yee A, and Friedman-Hill SR. Curvature is an independent feature in visual search. presented at the OSA Annual Meeting, Boston, Oct. 1990.
54. Wolfe JM, and Friedman-Hill SR. Must we attend to every abrupt onset? presented at the Psychonomics Society Annual Meeting, New Orleans, Nov. 1990.
55. Wolfe JM. Euclid's Pillar: Single vision with two eyes. presented at the EPA annual meeting, New York, Apr. 1991.

56. Chun MM, Wolfe JM, & Friedman-Hill SR. Just Say No: How to terminate a visual search. *Investigative Ophthalmology and Visual Science*, 32, 1040 (abs# 1833). ARVO, Sarasota, FL, May 1991.
57. Lew ACQ, Song EY, Friedman-Hill SR, Adelson EH, and Wolfe JM. A different aftereffect of motion: Altering perceived direction of gratings and plaids. *Investigative Ophthalmology and Visual Science*, 32, 827 (abs# 791). ARVO, Sarasota, FL, May 1991.
58. Friedman-Hill SR, Wolfe JM, and Chun MM. Further evidence for top-down activation of orientation categories in visual search. *Investigative Ophthalmology and Visual Science*, 32, 1040 (abs# 1830). ARVO, Sarasota, FL, May 1991.
59. Wolfe JM, Friedman-Hill SR, & Chun MM. A "Sameness" Operation in Visual Search *Investigative Ophthalmology and Visual Science*, 32, 715 (abs# 249). ARVO, Sarasota, FL, May 1991.
60. Wolfe JM. "Effortless" texture segmentation and "parallel" visual search are not the same thing. presented at the Psychonomics Society Annual Meeting, San Francisco, Nov. 1991.
61. Wolfe JM. Adapting to Richard Held. presented at the Eastern Psychological Association Meeting, Boston, Apr. 1992.
62. Wolfe JM. Clinical Vision Science: Some pitfalls on the path from the lab to the clinic. presented at the Eastern Psychological Association Meeting, Boston, Apr. 1992.
63. Chun MM, Wolfe JM, Friedman-Hill SR. Texture gradients group within but not across feature maps. *Investigative Ophthalmology and Visual Science*, 33, 960 (abs# 1338). ARVO, Sarasota, FL, May 1992.
64. Friedman-Hill SR, & Wolfe JM. Activation vs inhibition in visual search. *Investigative Ophthalmology and Visual Science*, 33, 1356 (abs# 3315). ARVO, Sarasota, FL, May 1992.
65. Wolfe JM, & Friedman-Hill SR. Part-whole relationships in visual search. *Investigative Ophthalmology and Visual Science*, 33, 1355 (abs# 3308). ARVO, Sarasota, FL, May 1992.
66. Wolfe JM, & Chun MM. Terminating unsuccessful visual searches: When is it time to quit? *Perception*, (ECVP Abstracts), paper presented at the European Conference on Visual Perception in Pisa, Aug, 1992.
67. Wolfe JM, & Friedman-Hill SR. Visual search can be guided by part-whole information. *Perception*, (ECVP Abstracts), paper presented at the European Conference on Visual Perception in Pisa, Aug, 1992.
68. Wolfe JM. Guided Search 2.0: A revised model of visual search. presented at the Psychonomics Society Annual Meeting, St. Louis, MO, Nov. 1992.

69. Wolfe JM The role of parallel processes in the guidance of attention. presented at EPA annual meeting. Washington, DC April 1993.
70. Wolfe JM, Chun, MM, & Friedman-Hill SR. Making use of texture gradients: Visual search and texture grouping exploit the same parallel processes in different ways. *Spatial Vision*; 1993 7(1), 90.
71. Bilsky AB, Wolfe JM, & Higgins J. Subset suppression in binocular vision suggests that the visual system suppresses "bad" input. *Investigative Ophthalmology and Visual Science*, 34(4), 1188. ARVO, Sarasota, FL, May 1993.
72. Karbassi M, Chylack LT, Wolfe JM, & Mangione C. Correlation between subjective and objective measures of glare disability in preoperative elderly patients with cataract. *Investigative Ophthalmology and Visual Science*, 34(4), 1224. ARVO, Sarasota, FL, May 1993.
73. O'Neill P, Wolfe JM, & Bilsky AB. Individual differences in visual search. *Investigative Ophthalmology and Visual Science*, 34(4), 1236. ARVO, Sarasota, FL, May 1993.
74. Wolfe JM. Guided Search 2.0: The upgrade of a model of visual search. *Investigative Ophthalmology and Visual Science*, 34(4),1289. ARVO, Sarasota, FL, May 1993.
75. Wolfe, J M. Guided Search 2.0: The upgrade. 37th annual meeting of the Human Factors Society, Seattle, WA; 1993 Oct, 11-15 (invited).
76. Wolfe, J M. Attending to the leaves in the trellis: Visual search with naturalistic stimuli. presented at the Psychonomics Society Annual Meeting, Washington, DC, Nov. 5-7,(Abs #84) 1993.
77. Wolfe JM. The effects of aging on normal visual function. presented at the ARVO Symposium on Cataract at the Academy of Ophthalmology Meeting, Chicago; 1993 Nov 16, (invited).
78. Wolfe JM. A new look at binocular single vision. Presented at the Academy of Optometry Meeting, Boston; 1993 Dec. 13, (invited).
79. Bilsky AB, & Wolfe JM. Searching for conjunctions of two orientations is different from searching for conjunctions of two colors or two sizes. *Proc. of the Annual Meeting of the Eastern Psychological Association* 65 (22),1994.
80. O'Neill PE, & Wolfe JM. Mechanisms of visual search revealed by individual differences. *Proc. of the Annual Meeting of the Eastern Psychological Association* 65 (22) 1994.

81. Bilsky AA, Wolfe JM, & Friedman-Hill SF. Part-whole information is useful in size X size but not in orientation X orientation conjunction searches. *Investigative Ophthalmology and Visual Science*, 35(4),1622. ARVO, Sarasota, FL, May1994.
82. O'Neill P, & Wolfe JM. Mechanisms of visual search revealed by individual differences. *Investigative Ophthalmology and Visual Science*, 35(4),1328. ARVO, Sarasota, FL, May1994.
83. Wolfe JM. Visual search in continuous, naturalistic stimuli. *Investigative Ophthalmology and Visual Science*, 35(4),1328. ARVO, Sarasota, FL, May 1994.
84. O'Neill PE, Wolfe JM, Neri DF, & Czeisler CA. Effect of shift work and bright light therapy on visual attention. *Sleep Research*; 1994 23, 140.
85. O'Neill PE, and Wolfe JM. Implications of individual differences in visual search. presented at the Psychonomics Society Annual Meeting, St. Louis, MO, Nov. 11-13, 1994 (Abs #353).
86. Wolfe JM. Beyond the parallel processing of visual features: The preattentive "item map". presented at the Psychonomics Society Annual Meeting, St. Louis, MO, Nov. 11-13, 1994 (Abs #565).
87. Wolfe JM. The visual search for basic features. Paper presented at the Eastern Psychological Association, Boston, MA; 1995.
88. O'Neill PE, & Wolfe JM. "Hot spots" in the visual field? Paper presented at the Eastern Psychological Association, Boston, MA; 1995.
89. Gancarz G, & Wolfe JM. (name omitted from abstract). Learning feature map weights: Guided Search 2.0 implementation. Paper presented at the Eastern Psychological Association, Boston, MA; 1995.
90. Bennett SC, & Wolfe JM. Don't look, listen: When does a second task interfere with visual search? Paper presented at the Eastern Psychological Association, Boston, MA;1995.
91. Wolfe JM. Where is Guided Search going? Banff Annual Seminar in Cognitive Science;1995 May; Banff, Alberta, CA. *Canadian Journal of Psychology*; 1995, abstract only.
92. Wolfe J. Search for objects is based on local features, not global shape. *Investigative Ophthalmology and Visual Science*;1995, 36(4), Abstract #2993.
93. O'Neill PE, & Wolfe JM. Is there a default search path. *Investigative Ophthalmology and Visual Science*; 1995, 36(4). Abstract #2997.

94. Bennett SC, & Wolfe JM. Don't look, listen: When does a second task interfere with visual search. *Investigative Ophthalmology and Visual Science*; 1995, 36(4). Abstract #4136.
95. Gancarz G, & Wolfe JM. Grouping is not mandatory in visual search. *Investigative Ophthalmology and Visual Science*; 1995, 36(4). Abstract #4130.
96. Magnante P, Noonan C, Wolfe JM, & Chylack, LT. Correlation between line spread function and glare disability measurements in patients with early cataract. *Investigative Ophthalmology and Visual Science*; 1995, 36(4). Abstract #2875.
97. Wolfe JM. Can you force attention to move every 50 msec? Paper presented at the Eastern Psychological Association, Philadelphia, PA;1996. vol 67, p. 12.
98. Bennett SC, & Wolfe JM. Serial search can proceed at 50 msec per item. *Investigative Ophthalmology and Visual Science*; 1996, 37(3), S298.
99. Horowitz TS, & Wolfe JM. Targets and anti-targets: excitation and inhibition in the guidance of visual search for conjunctions. *Investigative Ophthalmology and Visual Science*; 1996, 37(3), S298.
100. Gancarz G, & Wolfe JM. Adding saccades to the guided search model of covert visual search. *Investigative Ophthalmology and Visual Science*; 1996, 37(3), S298.
101. Wolfe JM. Post-attentive vision. *Investigative Ophthalmology and Visual Science*; 1996, 37(3), S214.
102. Royden CS, Wolfe JM, Konstantinova E, & Hildreth EC. Search for a moving object by a moving observer. *Investigative Ophthalmology and Visual Science*; 1996, 37(3), S299.
103. Wolfe JM. Modifying Guided Search: Preattentive object files. BASICS Conference; 1996. *Canadian Psychology*; 1996 37(1).
104. Wolfe JM. Post-attentive vision: What is left when attention leaves? *Int. Congress of Psychology*; 1996 Montreal. *International J. of Psychology*;1996. 31 p.3-4. Abstract #3365.
105. Wolfe, JM. Post-attentive vision is preattentive vision. presented at the Psychonomics Society Annual Meeting, Chicago, Nov, 1996.
106. Horowitz T, & Wolfe JM. Inhibitory and facilitatory guidance in visual search. presented at the Psychonomics Society Annual Meeting, Chicago, Nov, 1996.
107. Bartoshuk LM, Caseria D, Catalanotto F, Dabrila G, Duffy VB, Lucchina LA, Nadoolman W, Sasaki C, Snyder DJ, and Wolfe J. Do taste-trigeminal interactions play a role in oral pain? *Chemical Senses*1996; 26, p. 578.

108. Royden CS, Wolfe JM, Konstantinova E, & Hildreth EC. Search for a moving object by a moving observer: Locating a static object among moving distractors. Paper presented at the Annual meeting of the Cognitive Neuroscience Society, Boston. March, 1997 p21, abstract 3.
109. Wolfe JM. Things fall apart: The cruel truth about visual perception. Paper presented at the Eastern Psychological Association; 1997 April; Washington, DC.; 1997. p.68.
110. Dahlen KA, & Wolfe JM. Searching behind occluders. *Investigative Ophthalmology and Visual Science*; 1997 38(4), S366. Abstract#1716.
111. Horowitz TS, & Wolfe JM. Is visual search lost in space? *Investigative Ophthalmology and Visual Science*; 1997 38(4), S688. Abstract #3210.
112. Klempen NL, Huggins KA, & Wolfe JM. The Megatrial: What do 2500 RT x set size slopes tell us about visual search? *Investigative Ophthalmology and Visual Science*; 1997 38(4), S364. Abstract #1704.
113. Wolfe JM, Klempen NL, & Horowitz TS. The gist of the meaningless: Is scene recognition a type of visual search. *Investigative Ophthalmology and Visual Science*; 1997 38(4), S488. Abstract #2254.
114. Wolfe JM. Inattentional amnesia. *Abstracts of the Psychonomic Society*; 1997 Nov 20-22, abstract #70; Philadelphia; 1997, 2 p.18.
115. Horowitz TS, & Wolfe JM. Visual search in the eternal present. *Abstracts of the Psychonomic Society*; 1997 Nov 20-22, abstract #26; Philadelphia; 1997, 2, p.3.
116. Dahlen KA, & Wolfe JM. Objects and T-junctions in visual search. Paper presented at the Eastern Psychological Association; 1998 Feb, Boston; 1998. p.89.
117. Horowitz TS, & Wolfe JM. Indirect measures of attentional dwell time. Paper presented at the Eastern Psychological Association; 1998 Feb, Boston; 1998. p.89.
118. Klempen NL, Royden C, & Wolfe JM. Asymmetries of motion: The dead fly effect. Paper presented at the Eastern Psychological Association; 1998 Feb, Boston; 1998. p.90.
119. Klempen NL, Shulman E, Royden C, & Wolfe JM. Visual search asymmetries in motion and orientation. *Investigative Ophthalmology and Visual Science*; 1998 39(4), S165.
120. Wolfe JM, & Horowitz TS. A new look at preattentive vision. *Investigative Ophthalmology and Visual Science*; 1998 39(4), S872.
121. Horowitz TS, & Wolfe JM. Temporal transients disrupt attentional guidance but not visual search. *Investigative Ophthalmology and Visual Science*; 1998 39(4), S225.

122. Dahlen K, & Wolfe JM. Are "T-junctions" weak features in visual search? *Investigative Ophthalmology and Visual Science*;1998 39(4), S166.
123. Horowitz TS, Wolfe JM, Czeisler CA. A chronopsychological dissection of attention. *Abstracts of the Psychonomic Society*; 1998 Nov, abstract #355; Dallas; 1998.
124. Wolfe JM. How quickly they forget: A modest alternative to blinks and blindness. *Abstracts of the Psychonomic Society*; 1998 Nov, abstract #507; Dallas; 1998.
125. Wolfe JM. There is no free lunch: The RT costs of "preattentive" tasks. *Abstracts of the Psychonomic Society*; 1998 Nov, abstract #545; Dallas; 1998.
126. Alvarez G, Horowitz TS, & Wolfe JM. Visual search is globally amnesic. paper presented at EPA annual meeting; 1999 March; Providence, RI; 1999.
127. Horowitz TS, & Wolfe JM. Defending the proposition that visual search has no memory. paper presented at EPA annual meeting; 1999 March; Providence, RI; 1999.
128. Wong A, & Wolfe JM. Attentional costs of preattentive tasks. paper presented at EPA annual meeting; 1999 March; Providence, RI; 1999.
129. Horowitz TS, Wolfe JM, Wong A, & Alvarez GA. Amnesic search is not an artifact of stimulus duration. 3rd annual Vision Research conference, Preattentive and Attentive Mechanisms in Vision; 1999 May 7-8; Ft. Lauderdale, FL; 1999.
130. Wolfe, JM. Vision, attention, and memory. 3rd annual Vision Research conference, Preattentive and Attentive Mechanisms in Vision; 1999 May 7-8; Ft. Lauderdale, FL; 1999.
131. Humphreys GW, Cinel C, et al. Fractionating the binding process: Neuropsychological evidence distinguishing binding of form from binding of surface features. 3rd annual Vision Research conference, Preattentive and Attentive Mechanisms in Vision; 1999 May 7-8; Ft. Lauderdale, FL; 1999.
132. Alvarez G, Horowitz T S, Wong A, & Wolfe JM. New evidence against global accumulation of information in visual search. *Investigative Ophthalmology and Visual Science*;1999 40(4). ARVO 1999.
133. Brawn PT, Snowden RJ, & Wolfe JM. The minimal conditions for "change blindness": What is hidden what was. *Investigative Ophthalmology and Visual Science*; 1999 40(4). ARVO 1999.
134. Wolfe JM, & Alvarez GA. Give me liberty or give me more time! Your visual attention is faster if you don't tell it what to do. *Investigative Ophthalmology and Visual Science*; 1999 40(4).ARVO 1999.

135. Wong A, & Wolfe JM. Dead elephants and the preattentive representation of orientation. *Investigative Ophthalmology and Visual Science*;1999 40(4). ARVO 1999.
136. Wolfe JM. Guided Search 3.5: A bottom-up fix for what Found Found. Abstracts of the Psychonomic Society; 1999 Nov; Psychonomic Society Meeting; Los Angeles;1999, 4 p. 21.
137. Wolfe JM, Alvarez GA, Horowitz TS. (2000)Attention is fast but volition is slow. paper presented at EPA annual meeting; 2000 March; Baltimore, MD.
138. Alvarez GA, Horowitz TS, & Wolfe JM. Multielement tracking and visual search use independent resources. *Investigative Ophthalmology and Visual Science*; 2000 41(4), S759. Abstract #4028.
139. Butcher JJ, Williams EK, & Wolfe JM. Preattentive psychophysics: Measuring the orientation tuning of the processes that guide attention. *Investigative Ophthalmology and Visual Science*; 2000 41(4), S39. Abstract #201.
140. Horowitz TS, Holcombe AO, Alvarez GA, & Wolfe JM. Tracking ambiguous motion enables fast attentional shifts. *Investigative Ophthalmology and Visual Science*; 2000 41(4), S422. Abstract #2234.
141. Wolfe JM, Horowitz TS, & Alvarez GA. Further evidence for amnesic search: Attention is still lost in space. *Investigative Ophthalmology and Visual Science*; 2000 41(4), S760. Abstract #4033.
142. Horowitz TS, Cade BE, Wolfe JM, & Czeisler CA. The role of bright light and fixed sleep schedules in facilitating circadian adaptation to night work. 2000 Society for Research in Biological Rhythms, 7th Meeting.
143. Horowitz TS, Alvarez GA, Wolfe JM. Desparately seeking memory in visual search. Abstracts of the Psychonomic Society; 2000 Nov; Psychonomic Society Meeting; New Orleans, abstract #15 p. 3.
144. Wolfe JM, Horowitz TS, Cade BE, & Czeisler CA. Searching when sleepy: Trading accuracy for efficiency. Abstracts of the Psychonomic Society; 2000 Nov; Psychonomic Society Meeting; New Orleans, abstract #391 p. 58.
145. Wolfe, J. M., Oliva, A., & Butcher, S. (2001). When bad things happen to good objects. *paper presented at the Annual Meeting of the Eastern Psychological Association.*
146. Oliva, A., Wolfe, J. M., & Arsenio, H. C. (2001). Memory as an internal vision. *1st Annual meeting of the Vision Sciences Society, Sarasota, May 2001.*

147. Wolfe, J. M., Butcher, S. J., Lee, C., & Hyle, M. (2001). Knowledge is speed: Contributions of top-down and bottom-up processes in simple feature search. *Investigative Ophthalmology and Visual Science*, 42(4), ARVO Abstract #4972.
148. Alvarez, G. A., Wolfe, J. M., Horowitz, T. S., & Arsenio, H. C. (2001). Limits on multielement tracking. *1st Annual meeting of the Vision Sciences Society, Sarasota, May 2001*.
149. Butcher, S. J., Oliva, A., & Wolfe, J. M. (2001). Things fall apart: The transience of binding. *1st Annual meeting of the Vision Sciences Society, Sarasota, May 2001*.
150. Wolfe, J. M. (2001). Guided Search 4.0: A Guided Search model that does not require memory for rejected distractors. *1st Annual meeting of the Vision Sciences Society, Sarasota, May 2001*.
151. Oliva, A., Butcher, S., & Wolfe, J. M. (2001). Preattentive segmentation of objects from backgrounds in visual search. *Perception*(ECVP 2001 Abstracts).
152. Santhi, N., Horowitz, T. S., & Wolfe, J.M. (2001).Depth of the attentional blink is modulated by circadian phase. *Object Perception and Memory, (OPAM meeting) vol 9*
153. Wolfe, J. M., & Hyle, M. (2001). Quitting Time: When is it time to give up in visual search? *Abstracts of the Psychonomic Society*, 6(abs #392), 57.
154. Butcher, S, Oliva, A, Bompas, A, and Wolfe, J.M. (2002) Separating figures from ground in visual search. *paper presented at the Annual Meeting of the Eastern Psychological Association. Boston, MA, March, 2002*
155. Hyle, M, Vasani, N., Butcher, S., Horowitz, T., and Wolfe, J.M. (2002) How fast can you change your mind? Effects of target identity cues in visual search. *paper presented at the Annual Meeting of the Eastern Psychological Association. Boston, MA, March, 2002*
156. Arsenio, H.C., Oliva, A., and Wolfe, J.M. (2002) Exorcizing "ghosts" in repeated visual search. *paper presented at the Annual Meeting of the Eastern Psychological Association. Boston, MA, March, 2002*
157. DiMase, J., Oliva, A., and Wolfe, J.M. (2002) Get the picture? Understanding memory for background and objects in scenes. *paper presented at the Annual Meeting of the Eastern Psychological Association. Boston, MA, March, 2002*
158. Arsenio, H., Oliva, A., & Wolfe, J. (2002). Exorcising "Ghosts" in repeated visual search. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*
159. Butcher, S., Oliva, A., & Wolfe, J. (2002, May 10-15, 2002). Preattentive segmentation of figures from ground in visual search. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*

160. DiMase, J. S., Oliva, A., & Wolfe, J. (2002). Taking a picture apart: Memory for backgrounds and objects in scene photographs. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*
161. Horowitz, T. S., Wolfe, J., & Hyle, M. (2002, May 10-15, 2002). Memory in visual search: Do the eyes have it? (abstract). *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*
162. Hyle, M., Visan, N., Butcher, S., & Wolfe, J. (2002, May 10-15, 2002). How fast can you change your mind? Effects of target identity cues in visual search. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*
163. Oliva, A., & Wolfe, J. (2002, May 10-25, 2002). Memory for scenes: May I have the spatial envelope, please? *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*
164. Reinecke, A., & Wolfe, J. (2002). Serial position effects in visual short term memory. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*
165. Wolfe, J., Torralba, A., & Horowitz, T. S. (2002, May 10-15, 2002). Remodeling visual search: How gamma distributions can bring those boring old RTs to life. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2002*
166. Horowitz, T. S., Wolfe, J. M. & DiMase, J. S. (2002). It's easier to track moving items if they are collinear with their direction of motion. *ECVP meeting (Glasgow, Aug. 2002) Perception*, 31 (supplement).
167. Horowitz, T. S., Wolfe, J. M. & DiMase, J. S. (2002). Sharing the spotlight: can you search while stream-switching?. *Abstracts of the Psychonomic Society*, 7
168. Wolfe, J. M. (2002). What guides the development of attention in visual search? Old question – new answer. *Meeting of the Psychonomic Society, Kansas City, MO(Nov, 2002)*.
169. Wolfe, J. M., & DiMase, J. S. (2002). Is “intersection” a basic feature for visual search? *Meeting of the Psychonomic Society, Kansas City, MO(Nov, 2002)*.
170. Jeremy M Wolfe, Anne Treisman, & Todd S Horowitz: What shall we do with the preattentive processing stage: Use it or lose it? *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2003*
171. Todd S Horowitz, Randall S Birnkrant, & Jeremy M Wolfe: Rapid visual search during slow attentional shifts. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2003*

172. Jennifer S DiMase, George A Alvarez, Todd S Horowitz, & Jeremy M Wolfe: Constraints on task switching in multielement tracking and visual search. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2003*
173. Naomi Kenner & Jeremy M Wolfe: An exact picture of your target guides visual search better than any other representation. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2003*
174. Randall S Birnkrant, Jeremy M Wolfe, & Hermie Mendoza: Is opacity a basic feature? It's not transparent. *Paper presented at the Vision Sciences Society (VSS), Sarasota, FL., May, 2003*
175. Wolfe, J M Modeling Visual Search: Guided Search and Its Friends. *Paper presented at the Munich Symposium on Visual Search. Holzhausen, Germany, June 2003*
176. Wolfe, JM Speed limits on the top-down guidance of visual search. *Paper presented at the International Workshop on Visual Attention, San Miniato, Italy, June 2003*
177. Horowitz, T. S., DiMase, J. S., & Wolfe, J. M. (2003) Visual search asymmetry for Brownian and ballistic motion trajectories. *Perception, 32* (supplement). *Paper presented at the European Conference on Visual Perception (Paris)*
178. DiMase, J. S., Oliva, A., Horowitz, T. S. & Wolfe, J. M. (2003). The role of attended objects in picture recognition memory. *Paper presented at the Object Perception, Attention & Memory Meeting, (OPAM) 9* (Vancouver, BC).
179. Horowitz, T. S., Wolfe, J. M., & Birnkrant, R. S. (2003). Search for multiple targets: Search rate depends on what is being remembered. *Abstracts of the Psychonomic Society, 8*. *Paper presented at the meeting of the Psychonomic Society (Vancouver, BC)*
180. Wolfe, J. M., & Horowitz, T. S. (2004) A two-pathway architecture for visual attention. *Paper presented at the Australian Neuroscience Society, Melbourne, VIC, Australia. (Jan 29, 2004)*
- 181., Birnkrant, R. S., Wolfe, J. M., Kunar, M., & Sng, M. (2004, April 29 - May 4, 2004). *Is shininess a basic feature in visual search?* Paper presented at the Visual Sciences Society, Sarasota, FL.
182. Fencsik, D. E., Horowitz, T. S., Klieger, S. B., & Wolfe, J. M. (2004, April 29 - May 4, 2004). *Target reacquisition strategies in multiple object tracking.* Paper presented at the Visual Sciences Society, Sarasota, FL.
183. Horowitz, T. S., Birnkrant, R. S., Wolfe, J. M., Tran, L., & Fencsik, D. E. (2004, April 29 - May 4, 2004). *Tracking invisible objects.* Paper presented at the Visual Sciences Society, Sarasota, FL.

184. Kenner, N., & Wolfe, J. M. (2004, April 29 - May 4, 2004). *How exact is exact? In visual search a re-sized, re-oriented, or mirrored cue is just as effective as an exact cue.* Paper presented at the Visual Sciences Society, Sarasota, FL.
185. Klieger, S. B., Horowitz, T. S., & Wolfe, J. M. (2004, April 29 - May 4, 2004). *Is Multiple Object Tracking Colorblind?* Paper presented at the Visual Sciences Society, Sarasota, FL.
186. Michod, K. O., Wolfe, J. M., & Horowitz, T. S. (2004, April 29 - May 4, 2004). *Does guidance take time to develop during a visual search trial?* Paper presented at the Visual Sciences Society, Sarasota, FL.
187. Palmer, E. M., Wolfe, J. M., & Horowitz, T. S. (2004, April 29 - May 4, 2004). *Response time distributions constrain models of visual search.* Paper presented at the Visual Sciences Society, Sarasota, FL.
188. Wolfe, J. M. (2004, April 29 - May 4, 2004). *A new, two pathway model describes the role of selective attention in human vision.* Paper presented at the Visual Sciences Society, Sarasota, FL.
189. Horowitz, T. S., Klieger, S. B., Wolfe, J. M., George A. Alvarez, & Fencsik, D. E. (2004). Do you know what you're tracking? *Perception, ECVF abstracts*(Paper presented at the 2004 ECVF meeting, Budapest).
190. Wolfe JM, Palmer EM, Horowitz TS, Michod KO. 2004. Visual search throws us a curve. *Abstracts of the Psychonomic Society, 9, Paper presented at the meeting of the Psychonomic Society (Minneapolis, MN)*
191. Horowitz TS, Klieger SB, Wolfe JM, Fencsik DE, Alvarez GA. 2004. How many unique objects can you track? *Abstracts of the Psychonomic Society, Paper presented at the meeting of the Psychonomic Society (Minneapolis, MN)*
192. DiMase, J., Chun, M., Scholl, B., Wolfe, J., & Horowitz, T. (2005). Learning scenes while tracking disks: The effect of MOT load on picture recognition. *Paper presented at the Visual Sciences Society, Sarasota, FL., (May 6 - 11, 2005).*
193. Fencsik, D., Horowitz, T., Place, S., Klieger, S., & Wolfe, J. (2005). Target Tracking During Interruption in the Multiple-Object Tracking Task. *Paper presented at the Visual Sciences Society, Sarasota, FL., (May 6 - 11, 2005).*
194. Flusberg, S., Kunar, M., & Wolfe, J. (2005). In visual search, can the average features of a scene guide attention to a target? *Paper presented at the Visual Sciences Society, Sarasota, FL., (May 6 - 11, 2005).*
195. Kunar, M., Michod, K., & Wolfe, J. (2005). When We Use the Context in Contextual Cueing: Evidence From Multiple Target Locations. *Paper presented at the Visual Sciences*

Society, Sarasota, FL., (May 6 - 11, 2005).

196. Michod, K., Horowitz, T., & Wolfe, J. (2005). Picture Memory Demands Attention. *Paper presented at the Visual Sciences Society, Sarasota, FL., (May 6 - 11, 2005).*

197. Place, S., & Wolfe, J. (2005). Multiple Visual Object Juggling. *Paper presented at the Visual Sciences Society, Sarasota, FL., (May 6 - 11, 2005).*

198. Wolfe, J., Kenner, N., & Horowitz, T. (2005). Visual search: The perils of rare targets. *Paper presented at the Visual Sciences Society, Sarasota, FL., (May 6 - 11, 2005).*

199. Fencsik, D. E., Urrea, J., Place, S. S., Wolfe, J. M., & Horowitz, T. S. (2005). Differences in speed aid visual search and multiple-object tracking. *Paper presented at the Object Perception, Attention & Memory Meeting, (OPAM), Toronto.*

200. Wolfe, J. M., Flusberg, S. J., Fencsik, D. E., & Horowitz, T. S. (2005). Visual search has no foresight: An event-related signal-detection approach to speeded visual search tasks. *Paper presented at the Psychonomics Society Meeting (Toronto, Canada (Nov, 2005)).*

201. Fencsik, D. E., Horowitz, T. S., Flusberg, S. J., & Wolfe, J. M. (2006). Change detection has no foresight: Measuring advanced knowledge of changes across displays. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*

202. Flusberg, S. J., Palmer, E. M., & Wolfe, J. M. (2006). Crossing over: Different visual search tasks use different decision rules. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*

203. Horowitz, T. S., Fine, E. M., Fencsik, D. E., Yurgenson, S., & Wolfe, J. M. (2006). Fixational eye movements do not predict attentional benefits. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*

204. Intraub, H., Daniels, K. K., Horowitz, T. S., & Wolfe, J. M. (2006). Looking at scenes while searching for numbers: Dividing attention multiplies space. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*

205. Kunar, M. A., Flusberg, S. J., Horowitz, T. S., & Wolfe, J. M. (2006). Does Contextual Cueing Guide the Deployment of Attention? *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006* NIHMSID # 75735

206. Palmer, E. M., VanWert, M. J., Horowitz, T. S., & Wolfe, J. M. (2006). Measuring the timecourse of guidance in visual search. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*

207. Rich, A. N., Hidalgo-Sotelo, B., Kunar, M. A., VanWert, M. J., & Wolfe, J. M. (2006). What happens during search for rare targets? Eye movements in low prevalence visual search. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*

208. VanWert, M. J., Horowitz, T. S., Place, S. S., & Wolfe, J. M. (2006). Errors in low prevalence visual search: Easy to produce, hard to cure. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*
209. Wolfe, J. M., Horowitz, T. S., Fencsik, D. E., & Flusberg, S. J. (2006). Visual search has no foresight: An event-related measurement of signal strength during a visual search trial. *Paper presented at the Visual Sciences Society, Sarasota, FL. May 2006*
210. Kunar, M.A., Flusberg, S.J., Horowitz, T.S., & Wolfe, J.M., (2006). Does contextual cueing guide the deployment of attention? *Paper presented ICCNS, Boston, USA, May 2006*
211. Wolfe, J. M., Horowitz , T. S., & Van Wert, M. J. (2006). *The Prevalence Problem in Visual Search*. Paper presented at the The 4th International Aviation Security Technology Symposium, Washington, DC.
212. Palmer, E. M., Van Wert, M. J., Horowitz , T. S., & Wolfe, J. M. (2007). Getting Guidance Going. *Vision Sciences Society annual meeting. , Sarasota, FL. May 2007*
213. Reijnen, E., Rich, A. N., Van Wert, M. J., & Wolfe, J. M. (2007). The role of categorical boundaries in visual search for colour. *Vision Sciences Society annual meeting, Sarasota, FL. May 2007*
214. Rich, A. N., Kunar, M. A., Van Wert, M. J., Hidalgo-Sotelo, B., & Wolfe, J. M. (2007). Do rare features pop out? Exploring the boundaries of the low prevalence effect. *Vision Sciences Society annual meeting, Sarasota, FL. May 2007*
215. Van Wert, M. J., Horowitz , T. S., & Wolfe, J. M. (2007). “Curing” the prevalence effect in visual search. *Vision Sciences Society annual meeting, Sarasota, FL. May 2007*
216. Fencsik, D. E., Place, S. S., Wolfe, J. M., & Horowitz , T. S. (2007). Faster is not necessarily better in visual search. *Vision Sciences Society annual meeting, Sarasota, FL. May 2007*
217. Kunar, M. A., Flusberg, S. J., & Wolfe, J. M. (2007). Time to Guide: Evidence for Delayed Attentional Guidance in Contextual Cueing. *Vision Sciences Society annual meeting, Sarasota, FL. May 2007*
218. Horowitz , T. S., Wolfe, J. M., Keehn, B., Connolly, C., & Joseph, R. (2007). Is superior visual search in autism due to memory in search? *Vision Sciences Society annual meeting, Sarasota, FL. May 2007*
219. Wolfe, J. M., Reijnen, E., Ahmad, H., & Van Wert, M. J. (2007). Where would you look? Guiding visual search with global spatial information. *Vision Sciences Society annual meeting, Sarasota, FL. May 2007*

220. Kunar, M.A., Flusberg, S.J., Horowitz, T.S., & Wolfe, J.M., (2007). Can attentional guidance account for the benefit in contextual cueing? The Experimental Psychology Society and the Psychonomic Society, Edinburgh, UK
221. Wolfe, J. M., & Van Wert, M. J. (2007). Distributed spatial information fails to efficiently guide visual search. *Perception, ECVF07 abstracts. Paper presented at the European Conference on Visual Perception, Arezzo, Italy, August, 2007*
222. Wolfe, J. M., Rich, A. N., Brown, A. M., Lindsey, D. T., & Reijnen, E. (2007). Is Pink Special? The Evidence From Visual Search. *Paper presented at the Psychonomics Society Meeting, Long Beach, CA(Nov, 2007).*
223. Kuzmova, Y., Wolfe, J., Rich, A., Brown, A., Lindsey, D., & Reijnen, E. (2008). PINK: the most colorful mystery in visual search. *Journal of Vision, 8(6), 382-382. Vision Sciences Society, Naples, USA, May 2008*
224. Howe, P., Livingstone, M., Morocz, I., Horowitz, T., & Wolfe, J. (2008). A Neurophysiological model of multiple object tracking derived from fMRI. *Journal of Vision, 8(6), 220-220. Vision Sciences Society, Naples, USA, May 2008*
225. Drew, T., Horowitz, T. S., Wolfe, J. M., & Vogel, E. K. (2008). Online measurement of dynamic changes in tracking load. *Journal of Vision, 8(6), 499-499. Vision Sciences Society, Naples, USA, May 2008*
226. Cohen, M., Howe, P., Horowitz, T., & Wolfe, J. (2008). Support for a postdictive account of the flash-lag effect. *Journal of Vision, 8(6), 600-600. Vision Sciences Society, Naples, USA, May 2008*
227. Kunar, M., Flusberg, S., & Wolfe, J. (2008). Why don't people use memory when repeatedly searching through an over-learned visual display? *Journal of Vision, 8(6), 311-311. Vision Sciences Society, Naples, USA, May 2008*
228. Van Wert, M., Nova, N., Horowitz, T., & Wolfe, J. (2008). What does performance on one visual search task tell you about performance on another? *Journal of Vision, 8(6), 312-312. Vision Sciences Society, Naples, USA, May 2008*
229. Pedersini, R., Van Wert, M. J., Horowitz, T. S., & Wolfe, J. M. (2008). Monetary reward does not cure the prevalence effect in a baggage-screening task. *Journal of Vision, 8(6), 310-310. Vision Sciences Society, Naples, USA, May 2008*
230. Wolfe, J., Alvarez, G., Rosenholtz, R., Oliva, A., Torralba, A., Kuzmova, Y., et al. (2008). Search for arbitrary objects in natural scenes is remarkably efficient. *Journal of Vision, 8(6), 1103-1103. Vision Sciences Society, Naples, USA, May 2008*

231. Horowitz, T., Wolfe, J., Cohen, D., Czeisler, C., & Klerman, E. (2008). Quantifying the effects of sleepiness on sustained visual attention. *Journal of Vision*, 8(6), 233-233. *Vision Sciences Society, Naples, USA, May 2008*
232. Kunar, M. A., A. N. Rich, et al. (2008). "Why do we often miss infrequent targets in a visual search task?" 25th Anniversary Annual British Psychological Society conference: Cognitive Psychology Section: Sept 8-10, 2008; Southampton.
233. Wolfe, J. M. (2008). Guided Search for Conjunctions of Many Features. *Annual meeting of the Psychonomic Society, Abs 305, Nov 2008, Chicago.*
234. Cohen, M., Horowitz, T. S., & Wolfe, J. M. (2009). Auditory recognition memory is inferior to visual recognition memory. *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
235. Drew, T., Horowitz, T. S., Wolfe, J. M., & Vogel, E. K. (2009). Neural measures of maintaining and updating object information. *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
236. Evans, K., & Wolfe, J. M. (2009). Rapid, global image processing: Powerful, but capacity-limited. *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
237. Horowitz, T. S., Cohen, M., Howe, P., & Wolfe, J. M. (2009). Do multiple object tracking and letter identification use the same visual attention resource? *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
238. Kunar, M., & Wolfe, J. M. (2009). No Target No Effect: Target Absent Trials in Contextual Cueing. *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
239. Pedersini, R., Navalpakkam, V., Horowitz, T. S., Perona, P., & Wolfe, J. M. (2009). Quitting rules in visual search. *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
240. Pinto, Y., Horowitz, T. S., & Wolfe, J. M. (2009). Sometimes change blindness is just visual amnesia. *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
241. Reijnen, E., Pedersini, R., Pinto, Y., Horowitz, T. S., Kuzmova, Y., & Wolfe, J. M. (2009). Amodal completion does not require attention. *J of Vision*, paper presented a Vision Science Society meeting, Naples, FL, May 2009.
242. Wolfe, J. M., & Kuzmova, Y. (2009). Don't underestimate the Force: Learning to have a hunch in visual search. *J of Vision*, paper presented Vision Science Society meeting, Naples, FL, May 2009.

243. Evans, K. K., & Wolfe, J. M. (2009). Limits on the non-selective processing of scenes. *Perception, ECVF09 abstracts. Paper presented at the European Conference on Visual Perception, Regensburg, Germany, August, 2009*
244. Zehetleitner, M., Muller, H. J., & Wolfe, J. M. (2009). Accumulation of salience: Modeling the effects of target distracter similarity in visual search. *Perception, ECVF09 abstracts, paper presented at 2009 meeting of the European Conference on Visual Perception.*
245. Pedersini, R., Navalpakkam, V., Horowitz, T. S., & Wolfe, J. M. (2009). Repeated choices in visual search. *Poster presented at SPUDM, Rovereto, Italy, August 2009.*
246. Fencsik, D. E., Wendel, L. V., Horowitz, T. S., & Wolfe, J. M. (2009). Faster Moving Targets Are Detected Efficiently In Visual Search. *Paper presented at the Psychonomics Society Meeting, Boston, Nov '09, Abs. #5029.*
247. Pinto, Y., Otten, M., Cohen, M., Horowitz, T. S., & Wolfe, J. M. (2009). When reacting is faster than acting. . *Paper presented at the Psychonomics Society Meeting, Boston, Nov '09, Abs. #3062.*
248. Evans, K., & Wolfe, J. M. (2009). When Categories Collide: Interference Effects in Gist Processing. . *Paper presented at the Psychonomics Society Meeting, Boston, Nov '09, Abs. #2085.*
249. Wolfe, J. M., & Van Wert, M. J. (2009). Two Dissociable Decision Criteria in Visual Search Revealed by Varying Target Prevalence. *Paper presented at the Psychonomics Society Meeting, Boston, Nov '09. Abs. #6*
250. Pedersini, R., Morvan, C., Maloney, L.T., Horowitz, T. S., & Wolfe, J. M. (2009). Do subjects maximize gain in search? Comparison of visual and nonvisual sequential decision making tasks. *Society for Judgement and Decision Making. Boston, Nov '09*
251. Evans, K. K., D. Georgian-Smith, Birdwell, R. L., Wolfe, J M (2009). "Seeing trouble in a flash: Discrimination of normal from abnormal mammograms with brief exposure, ." *Talk presented at 13th Biannual Medical Image Perception Conference, Santa Barbara CA., October, 2009.*
252. Myers, L., & Wolfe, J. M. (2010). Materials: Easy to identify but hard to find. *J of Vision, paper presented Vision Science Society meeting, Naples, FL, May 2010.*
253. Wolfe, J. M. (2010). Bound to guide: A surprising, preattentive role for conjunctions in visual search. *J of Vision, paper presented at the Vision Science Society meeting, Naples, FL, May 2010.*
254. Pedersini, R., Morvan, C., Maloney, L. T., Horowitz, T. S., & Wolfe, J. M. (2010). An abstract equivalent of visual search: Gain maximization fails in the absence of visual

judgments. *J. of Vision*, paper presented at the Vision Science Society meeting, Naples, FL, May 2010.

255. Kuzmova, Y. I., & Wolfe, J. M. (2010). Tiny Memory: How many pixels are required for good recognition memory? *J. of Vision*(paper presented at the Vision Science Society meeting, Naples, FL, May 2010).

256. Kreindel, E., Evans, K. K., & Wolfe, J. M. (2010). Do expert searchers remember what they have seen? *J. of Vision*, paper presented at the Vision Science Society meeting, Naples, FL, May 2010.

257. Greene, M. R., Oliva , A., Wolfe, J. M., & Torralba, A. (2010). What's behind the box? Measuring scene context with Shannon's guessing game on indoor scenes. *J of Vision*(paper presented at the Vision Science Society meeting, Naples, FL, May 2010).

258. Evans, K. K., & Wolfe, J. M. (2010). When the animal destroys the beach, the beach destroys the animal: Mutually assured destruction in gist processing. *J of Vision*, paper presented at the Vision Science Society meeting, Naples, FL, May 2010.

259. Drew, T., Horowitz , T. S., Wolfe, J. M., & Vogel, E. K. (2010). Neural Measures of Interhemispheric Information Transfer During Attentive Tracking. *J of Vision*, paper presented at the Vision Science Society meeting, Naples, FL, May 2010.

260. Drew, T., Horowitz , T. S., Wolfe, J. M., & Vogel, E. K. (2010). Temporal dynamics of interhemispheric transfer of moving object information. paper presented at the Annual CSAIL Meeting Hood River, Oregon, July 2010.

261. Reijnen, E., Krummenacher, J., Kuzmova, Y. I., & Wolfe, J. M. (2010). Coarse guidance by numerosity in visual search paper presented at the European Conference on Visual Perception (Lausanne, August, 2010).

262. Vo, M., & Wolfe, J. M. (2010). Contributions of Scene Priors and Scene Memory on Gaze Guidance in Repeated Search. paper presented at the European Conference on Visual Perception(Lausanne, August, 2010).

263. Evans, K. K., & Wolfe, J. M. (2010). How global is non-selective processing of scenes? paper presented at the European Conference on Visual Perception(Lausanne, August, 2010).

264. Evans, K, Wolfe, J.M., Tambouret, R. H. & Wilbur D. C. (November, 2010) In the blink of an eye: Discrimination and Localization of Abnormalities in Cervical Cytology Screening from a Global Signal. Poster session presentation at the 58th Annual Scientific Meeting of the American Society of Cytopathology, Cancer Cytopathology, Vol 118, issue 6

265. Tambouret, R. H., Evans, K, Wolfe, J.M. & Wilbur D. C. (November, 2010) Have we met before? How good is cytologists' recognition memory for microscopic images?. Poster

session presentation at the 58th Annual Scientific Meeting of the American Society of Cytopathology, Cancer Cytopathology, Vol 118, issue 6

266. Wolfe, J.M., Evans, K, Evered, A., Tambouret, R. H. & Wilbur D. C. (November, 2010) Target Prevalence Influences Cytologists' Error Rates. Poster session presentation at the 58th Annual Scientific Meeting of the American Society of Cytopathology, Cancer Cytopathology, Vol 118, issue 6

267. Vo, M. L. H. and J. M. Wolfe (2010). The role of incidental object fixations in repeated search: Looking AT versus looking FOR an object in a scene. Object Perception, Attention, and Memory (OPAM). St Louis, November 18, 2010.

268. Wolfe, J. M. and K. K. Evans (2010). Does This Beach Make Me Look Like an Animal? Flexible Weighting of Evidence in Rapid Identification of Scene Properties. Psychonomic Society Annual Meeting. St. Louis. (November 18-21, 2010)

269. Vo, M. L. H. and J. M. Wolfe (2010). Repeated Search in Scenes: Why Looking At an Object Does Not Help Looking For an Object. Psychonomic Society Annual Meeting. St. Louis. (November 18-21, 2010)

270. Zehetleitner, M., H. J. Muller, et al. (2010). Missing the Hard Cases: Effects of Relative Prevalence on Detection of Difficult Targets in Visual Search. . Psychonomic Society Annual Meeting. St. Louis. (November 18-21, 2010)

271. Wolfe, J. M., R. L. Birdwell, et al. (2010). Have We Met before? How Good Is a Radiologist's Recognition Memory for Mammograms? . RSNA Annual meeting. Chicago, Nov 28 - Dec 3, 2010.

272. Evans, K. K., R. L. Birdwell, et al. (2010). Discrimination and Localization of Abnormalities in Mammograms from a Global Signal. RSNA Annual meeting. Chicago, Nov 28 - Dec 3, 2010.

273. Wolfe, J. M. (2011). Searching for many things at the same time: Saved by a log. Talk given at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

274. Vo, M., & Wolfe, J. M. (2011). Does repeated search in scenes need memory? When contextual guidance fails, memory takes over. . Talk given at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

275. Sherman, A. M., Greene, M. R., & Wolfe, J. M. (2011). Depth and Size Information Reduce Effective Set Size for Visual Search in Real-World Scenes. Poster presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

276. Palmer, E., Fencsik, D., Horowitz, T., & Wolfe, J. M. (2011). Signal Detection Evidence for an Attentional Bottleneck in Spatial Configuration Visual Search. Poster

presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

277. Kreindel, E., & Wolfe, J. M. (2011). Pick me! Pick me! How do humans forage in a visual search task? Poster presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

278. Ishibashi, K., Kita, S., & Wolfe, J. M. (2011). An optimal termination strategy for dual-target search. Poster presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

279. Greene, M. R., Liu, T., & Wolfe, J. M. (2011). Reconsidering Yarbus: Pattern classification cannot predict observer's task from scan paths. Talk given at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

280. Evans, K., & Wolfe, J. M. (2011). Responding to the gist of unseen scenes. Poster presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

281. Drew, T., Cunningham, C., & Wolfe, J. M. (2011). Why don't Computer Aided Detection (CAD) algorithms help experts as much as they should? Poster presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

282. Doon, J., Getty, D., Mingolla, E., & Wolfe, J. M. (2011). Searching Simulated Lungs in 3D with Stereoscopic Volume Rendering. Poster presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

283. Cunningham, C., Drew, T., & Wolfe, J. M. (2011). When and why does Computer Aided Detection (CAD) interfere with visual search? Poster presented at the annual meeting of the Vision Sciences Society in Naples, FL., May 6-11, 2011

284. Wolfe, J. M., Nordfang, M., & Martinez I Zurita, A. (2011). Taking conjunction search to a higher dimension. paper presented at the Asian Conference on Visual Perception, Hong Kong (July 15, 2011).

285. Drew, T., Cunningham, C., & Wolfe, J. M. (2011). When and why does computer aided detection (CAD) interfere with visual search? *Poster presented at Medical Imaging Perception Society Meeting: (Dublin, Ireland, August, 2011).*

286. Vo, M., & Wolfe, J. M. (2011). Gaze control when searching a volumetric space: Comparing eye movement behavior in 2D versus 3D search. *poster presented at ECEM meeting, August 2011.*

287. Vo, M., & Wolfe, J. M. (2011). Searching for Invisible Objects in Visible Scenes *paper presented at the European Conference on Visual Perception (Toulouse, August, 2011).*

288. Drew, T., Cunningham, C., & Wolfe, J. M. (2011). Helping computer aided detection (CAD)

algorithms help you: increasing the behavioral benefit of a given CAD signal. *paper presented at the European Conference on Visual Perception*(Toulouse, August, 2011).

289. Horowitz , T. S., Kreindel, E., & Wolfe, J. M. (2011). The telltale heartbeat (outlier). *Perception ECVF Abstract Supplement, 40* 12. *paper presented at the European Conference on Visual Perception*(Toulouse, August, 2011).

290. Ishibashi, K., Kita, S., & Wolfe, J. M. (2011). The effects of local prevalence and explicit expectations on search termination times. Paper presented at the Asian Conference on Visual Perception.

291. Wolfe, J. M. (2011) Combining Visual Search and Memory Search in the Same Task. Paper presented at the Annual Meeting of the Psychonomic Society, Seattle, Nov 3-6, 2011

292. Drew, T., Vo, M., Seltzer, S., Jacobson, F. L., Wolfe, J. M. (2011). "Searching in three dimensions: How do radiologists search through volumetric space?" Electronic poster presented at Radiological Society of North America: Chicago, IL.

293. Wolfe, J. M., Drew, T., Vo, M., Evans, K., Jacobson, F. L., Ryan, J (2011). "What can you see in a single glance and how does this guide search in radiology?" Education exhibit presented at Radiological Society of North America: Chicago, IL.

294. Wolfe, J. M., Birdwell, R. L., & Evans, K. K. (2011). If You Don't Find it Often, You Often Don't Find It: Disease Prevalence is a Source of Miss Errors in Screening Mammography. paper presented at the annual Radiological Society of North America meeting: Chicago, IL., Nov 30, 2011.

295. Sherman, A. M., Evans, K. K., & Wolfe, J. M. (2012). The gist of the organized is more precise than the gist of the random. *J. Vis.*, Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.

296. Wolfe, J. M., & Danielson, J. R. (2012). Visual Foraging Behavior: When are the berries riper on the other side of the screen? . *J. Vis.*, Talk given at the annual meeting of the Vision Sciences Society in Naples, FL.

297. Vo, M. L., & Wolfe, J. M. (2012). Semantic and Syntactic Inconsistencies in Scenes Elicit Differential ERP Signatures. *J. Vis.*, talk given at the annual meeting of the Vision Sciences Society in Naples, FL.

298. Horowitz, T. S., Sherman, A. M., Kreindel, E., & Wolfe, J. M. (2012). When four, six, eight, or sixteen hearts beat as one: Effects of perceptual organization on search for temporal frequency outliers. *J. Vis.*, Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.

299. Evans, K. K., & Wolfe, J. M. (2012). The Gist of the Abnormal: Above chance medical decision making in the blink of an eye. *J. Vis.*, Talk given at the annual meeting of the Vision Sciences Society in Naples, FL.
300. Drew, T., & Wolfe, J. M. (2012). Hybrid search in the temporal domain: Monitoring an RSVP stream for multiple targets held in memory. *J. Vis.*, Talk given at the annual meeting of the Vision Sciences Society in Naples, FL.
301. Cunningham, C. A., & Wolfe, J. M. (2012). Finding what is new in hybrid visual and memory search: a new search asymmetry. *J. Vis.*, Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.
302. Evans, K. K., & Wolfe, J. M. (2012). Smothered by the scene: When context interferes with memory for objects. Paper presented at the 2012 European Conference on Visual Perception (ECCV).
303. Vo, M. L., & Wolfe, J. M. (2012). ERPs dissociate Semantic and Syntactic Processing in Scenes. Paper presented at the 2012 European Conference on Visual Perception (ECCV).
304. Drew, T., Sherman, A. M., & Wolfe, J. M. (2012). How does memory search interact with the attentional blink? Paper presented at the 2012 European Conference on Visual Perception (ECCV). Sardinia, Aug, 2012
305. Suzuki, M., Wolfe, J. M., Horowitz, T. S., & Noguchi, Y. (2012). Masking of target with illusory color-orientation misbinding. Paper presented at the 31st Annual Meeting of the Japanese Psychonomic Society.
306. Cunningham, C. A., & Wolfe, J. M. (2012). Lions or tigers or bears: Oh my! Hybrid visual and memory search for categorical targets. Paper presented at OPAM (Minneapolis, MN, Nov 2012) see also *Visual Cognition*, 20(9), 1024-1027.
307. Cunningham, C. A., & Wolfe, J. M. (2012). *Extending "Hybrid" Visual X Memory Search To Very Large Memory Sets And To Category Search*. Paper presented at the Annual meeting of the Psychonomic Society.
308. Drew, T., Vo, M., Wolfe, J. M. (2012). "The invisible gorilla strikes again: Sustained inattention blindness in expert observers." Poster presented at OPAM Conference: Minneapolis, MN.
309. Drew, T., Sherman, A. M., & Wolfe, J. M. (2012). *How does search through memory interact with the attentional blink?* Poster presented at the Annual meeting of the Psychonomic Society.
310. Evans, K. K., & Wolfe, J. M. (2012). *Can't remember the tree because of the forest: When context interferes with memory for objects*. Poster presented at the Annual meeting of the Psychonomic Society.

311. Vo, M. L., & Wolfe, J. M. (2012). *Searching for Invisible Objects in Visible Scenes*. Paper presented at the Annual meeting of the Psychonomic Society.
312. Wolfe, J. M., Hochberg, A., Schultz, K., & Young, G. S. (2012). *The perceptual consequences of dose reduction in an aneurysm segmentation task*. Paper presented at the Radiological Society of North America Annual Meeting.
313. Sitek, A., Hochberg, A., Young, G. S., Schultz, K., & Wolfe, J. M. (2012). *Evaluation of the raw noise simulator for radiation dose-reduction studies in CT*. Poster presented at the Radiological Society of North America Annual Meeting.
314. Evans, K. K., & Wolfe, J. M. (2013). Context messes with massive memory. *Journal of Vision*, 13(9), 810. Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.
315. Horowitz, T., Semmelmann, K., Boettcher, S., & Wolfe, J. M. (2013). Visual foraging: Quitting behavior when searching aerial maps follows the Marginal Value Theorem. *Journal of Vision*, 13(9), 1250. Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.
316. Draschkow, D., L.-H. Vo, M., Farmer, R., & M. Wolfe, J.M. (2013). Task dependent memory recall performance of naturalistic scenes: Incidental memorization during search outperforms intentional scene memorization. *Journal of Vision*, 13(9), 329. Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.
317. Wolfe, J. M., & Choo, A. (2013). Welcome to Vowelworld: A new approach to the guidance of search in scenes. *Journal of Vision*, 13(9), 299. Paper given at the annual meeting of the Vision Sciences Society in Naples, FL.
318. Cunningham, C. A., Wolfe, J. M., & Egeth, H. E. (2013). Incidental memory for potential targets vs. confirmed distractors. *Journal of Vision*, 13(9), 156. Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.
319. Drew, T., & Wolfe, J. M. (2013). Searching for many targets: What can eye-movements tell us about hybrid visual and memory search? *Journal of Vision*, 13(9), 531. Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.
320. Boettcher, S., Drew, T., Sherman, A., & Wolfe, J.M.(2013). Hybrid search meets the Attentional Blink: How does searching through memory influence blink magnitude? *Journal of Vision*, 13(9), 1188. Poster given at the annual meeting of the Vision Sciences Society in Naples, FL.
321. Drew, T., Wolfe, J. M. (2013). "Sequential versus simultaneous Computer Aided Detection (CAD): How do different forms of CAD influence eye movements and behavior?" Talk presented at Medical Image Perception Society: 8/14-16/13 Washington DC.

322. Wolfe, J. M., Olwal, A., Drew, T. (2013). "Understanding and attempting to improve search in volumetric space: How do radiologists search chest CT scans?" Talk presented at Medical Image Perception Society: : 8/14-16/13 Washington DC.
323. Suzuki, M., Wolfe, J. M., Horowitz, T. S., & Noguchi, Y. (2012). Masking target of visual search with illusory color-orientation misbinding. *Japanese Psychonomic Society*, 31, November 3-4, Fukuoka, Japan.
324. Boettcher, S. E. P., Drew, T., & Wolfe, J. M. (2013). Hybrid search in context: How to search for vegetables in the produce section and cereal in the cereal aisle. Paper presented at the 2013 OPAM meeting (Toronto, 11/14/13) published in *Visual Cognition*, 21(6), 678-682.
325. Wolfe, J. M., & Boettcher, S. (2013). Hybrid Visual and Memory Search: Just How Ridiculously Flexible and Talented are You Anyway? . paper presented at the Annual Meeting of the Psychonomic Society, Toronto((abs 77)), 11/14-17/13.
326. Drew, T., Boettcher, S., & Wolfe, J. M. (2013). Hybrid Visual and Memory Search Remains Efficient When Visual Working Memory is Full. paper presented at the Annual Meeting of the Psychonomic Society, Toronto((abs 207)), 11/14-17/13.
327. Vo, M. L., Draschkow, D., Farmer, R., & Wolfe, J. M. (2013). Memory Representations Are Not Created Equal: Incidental Encoding During Object Search Outperforms Intentional Object Memorization. paper presented at the Annual Meeting of the Psychonomic Society, Toronto((abs 306)), 11/14-17/13.
328. Vo, M. L.-H., Draschkow, D., Josephs, E. L., & Wolfe, J. M. (2014). Seek and remember: Scene semantics interact with visual search to build better memories. . paper presented at the 56th Conference of Experimental Psychologists (TeaP), Giessen, Germany (3/31-4/2/2014).
329. Becker, S. I., Venini, D., Retell, J. D., & Wolfe, J. M. (2014). Mirror blindness: Our failure to recognize the target in search for mirror-reversed shapes. paper presented at 41st Annual Australasian Experimental Psychology Conference, Brisbane, April 23-26, 2014.
330. Aizenman, A., Drew, T., Georgian-Smith, D., & Wolfe, J. M. (2014). Comparing search strategy in breast tomosynthesis and 2D mammogram: an eye tracking study *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 56.418*
331. Boettcher, S., & Wolfe, J. M. (2014). Searching for the right word: Hybrid visual and memory search for words. *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 53.304*
332. Cain, M. S., Boettcher, S., & Wolfe, J. M. (2014). When Does the Aardvark Move to the Next Anthill? Foraging search with moving targets *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 53.307*

333. Drew, T., & Wolfe, J. M. (2014). Shuffling your way out of change blindness *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 62.26.*
334. Ehinger, K. A., & Wolfe, J. M. (2014). Foraging and navigating in a virtual orchard: Which tree do you visit next? . *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 26:568.*
335. Gil-Gómez de Liaño, B., Drew, M. R., Quiros, M., & Wolfe, J. M. (2014). Updating for free? Span and Updating tasks modulate Visual Search in a similar manner *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 53.305*
336. Hout, M., Walenchok, S., Goldinger, S. D., & Wolfe, J. M. (2014). The low-prevalence effect is due to failures of attention, not premature search termination or motor errors: Evidence from passive search and eye-movements *paper presented at the Annual Meeting of the Vision Science Society, May 2014.*
337. Josephs, E. L., Draschkow, D., Vo, M. L., & Wolfe, J. M. (2014). Active visual search boosts memory for objects, but only when making a scene. *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 55.14.*
338. Nordfang, M., & Wolfe, J. M. (2014). Nonlinear effects of target-distractor feature sharing in triple conjunction visual search. *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 53.306*
339. Reijnen, E., Hoffmann, J., & Wolfe, J. M. (2014). The role of working memory capacity in visual search and search of visual short term memory. *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 53.552*
340. Sareen, P., Ehinger, K. A., & Wolfe, J. M. (2014). Through the Looking-Glass: Are objects in mirrors really objects? . *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 26:568.*
341. Vo, M. L., & Wolfe, J. M. (2014). Scene syntactic priming boosts lexical access . *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 43.558.*
342. Wolfe, J. M., Drew, T., & Vo, M. L. (2014). You don't know where your eyes have been and that could be problem *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 56.417.*
343. Zhang, J., Fougny, D., Gong, X., Alvarez, G. A., & Wolfe, J. M. (2014). Winter is coming: How humans forage in a temporally structured environment *paper presented at the Annual Meeting of the Vision Science Society, May 2014, 53.301*
344. Gil-Gómez de Liaño, B., Drew, T., Quirós, M., & Wolfe, J. M. (2014). Active Working Memory Tasks Interfere with Visual Search while Passive Tasks Do Not. *Paper presented at the Sepex-Sepneca 2014., 1-4 October, 2014.*

345. Drew, T., Wolfe, J. M., Birdwell, R. L., & Georgian-Smith, D. (2013). Comparing search in breast tomosynthesis and 2D mammograms: an eye-tracking study. *Paper Talk presented at American Roentgen Ray Society : San Diego, CA.*
346. Fougnie, D., Zhang, J., Cormiea, S. M., Gong, X., Alvarez, G. A., & Wolfe, J. M. (2014). Winter is coming: How humans forage in a temporally structured environment *Paper presented at the European Conference on Visual Perception. Belgrade, Serbia, August 24-28, 2014*
347. Wolfe, J. M. (2014). Enhancing Visual Search by GEOINT Analysts. Paper presented at the NGA Academic Research Program (NARP) Symposium and Workshops. *Paper presented at the NGA Academic Research Program (NARP) Symposium and Workshops, Washington, DC, Sept 10-11, 2014*
348. Wolfe, J. M., & Ehinger, K. A. (2014). Enhancing Visual Search by GEOINT Analysts Part 2: GEOINT Analysis as a foraging task. *Paper presented at the NGA Academic Research Program (NARP) Symposium and Workshops, Washington, DC, Sept 10-11, 2014*
349. Becker, S. I., Venini, D., Retell, J. D., & Wolfe, J. M. (2014). Mirror blindness: Our failure to recognize the target in search for mirror-reversed shapes. *paper presented at Psychonomic Soc, Annual Meeting, Long Beach, CA Nov 20-23, 2014.*
350. Cain, M. S., Boettcher, S., & Wolfe, J. M. (2014). Hybrid Foraging Search: Visual Search for Multiple Examples of Multiple Target Types Held in Memory. *paper presented at Psychonomic Soc, Annual Meeting, Long Beach, CA Nov 20-23, 2014.*
351. Wolfe, J. M., Drew, T., & Boettcher, S. (2014). The (Minimal) Role of Familiarity in Hybrid Visual and Memory Search. *paper presented at Psychonomic Soc, Annual Meeting, Long Beach, CA Nov 20-23, 2014.*
352. Fougnie, D., Zhang, J., Cormiea, S. M., Gong, X., Alvarez, G. A., & Wolfe, J. M. (2014). Winter Is Coming: How Humans Forage in a Temporally Structured Environment. *paper presented at Psychonomic Soc, Annual Meeting, Long Beach, CA Nov 20-23, 2014.*
353. Josephs, E. L., Cain, M. S., Hidalgo-Sotelo, B., Cook, G., Chang, N., Ehinger, K. A., et al. (2015). When is stereopsis useful in visual search? *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*
354. Sareen, P., & Wolfe, J. M. (2015). The tree in the bathroom: The role of inconsistent information in understanding the gist of a scene. *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*
355. Aizenman, A., Thompson, M., Ehinger, K. A., & Wolfe, J. M. (2015). Visual search through a 3D volume: Studying novices in order to help radiologists. *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*

356. Ehinger, K. A., & Wolfe, J. M. (2015). Foraging in satellite imagery: When is it time to move to the next map? *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*
357. Cain, M. S., Josephs, E. L., & Wolfe, J. M. (2015). Keep on rolling: Visual search asymmetries in 3D scenes with motion-defined targets. *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*
358. Wolfe, J. M., Cain, M. S., Ehinger, K. A., & Drew, T. (2015). Guided Search 5.0: Meeting the challenge of hybrid search and multiple-target foraging. *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*
359. Gil-Gómez de Liaño, B. T., Drew, T., Rin, D. F., & Wolfe, J. M. (2015). Active working memory tasks interfere with inefficient search but NOT with efficient search, guided by bottom-up salience. *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*
360. Drew, T., Aizenman, A. M., Thompson, M., Kovacs, M. D., Trambert, M., Reicher, Wolfe, J. M. (2015). Image shuffling saves time in mammography. *paper presented at the Annual Meeting of the Vision Science Society, May 2015.*
361. Evans, K. K., Schwartz, T. M., Georgian-Smith, D., Candelaria, R. P., Dryden, M. J., Haygood, T. M., et al. (2015). Varied Frequency Information in Mammography. Talk presented at Medical Image Perception Society: Ghent, Belgium. June 3-5, 2015.
362. Vo, M. L.-H. & Wolfe, J. M. (2015). Let me tell you where you looked! How much do people know about their own fixations? Presented at the 18th European Conference on Eye Movements, Austria. Aug. 17, 2015. Abstracts of the 18th European Conference on Eye Movements, 2015 *Journal of Eye Movement Research*, 8(4):1.
363. Becker, S.I., Venini, D., Retell, J.D., Wardhani, I., & Wolfe, J.M. Mirror blindness in visual search for complex shapes and faces. Presented at the 18th European Conference on Eye Movements, Austria. Aug. 17, 2015. Abstracts of the 18th European Conference on Eye Movements, 2015 *Journal of Eye Movement Research*, 8(4):1.
364. Wolfe, J M Enhancing Visual Search by GEOINT Analysts. Paper presented at NGA GEOINT Academic Research Summit, Washington, DC Sept 15-17, 2015
365. Cain, M. S., & Wolfe, J. M. (2015). Targets and Switching Between Trials in Hybrid Visual/Memory Search. Paper presented at the Psychonomics Society Meeting, Chicago, Nov. 19-22.
366. Wolfe, J. M., Georgian-Smith, D., Cooper, J., & Haygood, T. M. (2015). Expert Perception of Scene Gist: Finding Breast Cancer in Less Than a Second. Paper presented at the Psychonomics Society Meeting, Chicago, Nov. 19-22.
367. Wolfe, J.M. (2016) Learning to be an expert at visual search, Network for the Science of Learning Awardees' Meeting Arlington, VA, Feb, 8-10, 2016

368. Nordfang, M., & Wolfe, J. M. (2016). Guided memory search: Results from concurrent visual and memory search through different categories. Oral presentation at International Meeting of Psychonomic Society, Granada, Spain. May, 2016
369. Wick, F. A., Garg, S., Alaoui-Soce, A., & Wolfe, J. M. (2016). Perception of dynamic scenes: What is your Heider capacity? [Perception of dynamic scenes: What is your Heider capacity?]. Paper presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
370. Evans, K. K., Cooper, J., Haygood, T. M., & Wolfe, J. M. (2016). The 'Gist' of the Abnormal in Radiology Scenes: Where is the Signal? Paper presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
371. Gil-Gómez de Liaño, B. T., Drew, T., Rin, D. F., & Wolfe, J. M. (2016). Paradoxical speeding of visual search by the inclusion of WM and LTM lures. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
372. Ehinger, K. A., & Wolfe, J. M. (2016). How is visual search guided by shape? Using features from deep learning to understand preattentive "shape space"es. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
373. Wolfe, J. M., Aizenman, A. M., Park, J., Jurgenson, L., & Ehinger, K. A. (2016). How did you hide my bunny? Using a genetic algorithm to investigate preattentive processing of shape in visual search. Paper presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
374. Alaoui-Soce, A., Cain, M. S., & Wolfe, J. M. (2016). Fitting two target templates into the focus of attention in a hybrid foraging task. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
375. Cain, M. S., & Wolfe, J. M. (2016). Precise Guided Search. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
376. Micheletto, R., Ehinger, K. A., & Wolfe, J. M. (2016). Role of simple primitive shapes in complex distractors: Do shared features affect search times? Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
377. Utochkin, I. S., & Wolfe, J. M. (2016). Visual search for changes in scenes creates long-term, incidental memory traces. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
378. Wu, C.-C., Alaoui-Soce, A., & Wolfe, J. M. (2016). If you see something, say something: Event monitoring capacity is low. Paper presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.

379. Aizenman, A. M., Vo, M. L., & Wolfe, J. M. (2016). Losing track of your eyes while trying to find Waldo. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
380. Madrid, J., Cunningham, C. A., Robbins, A., Godwin, H. J., Wolfe, J. M., & Hout, M. C. (2016). Exploring the nature of mental representations in hybrid visual and memory search. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
381. Zou, B., Utochkin, I. S., & Wolfe, J. M. (2016). Binocularity and Visual Search – Revisited. Poster presented at Vision Sciences Society meeting, St. Petersburg, FL, May 12-18, 2016.
382. Wolfe, J. M., & Alaoui-Soce, A. (2016). Find any animal or this boot: Hybrid search for mixtures of specific and categorical targets. . paper presented at Psychonomic Soc, Annual Meeting, Boston, MA, Nov 18-20, 2016, abs #46.
383. Wick, F. A., Garg, S., Alaoui-Soce, A., & Wolfe, J. M. (2016). Perception of dynamic scenes. Poster presented at Psychonomic Soc, Annual Meeting, Boston, MA, Nov 18-20, 2016, abs #3184.
384. Aizenman, A. M., Drew, T., Georgian-Smith, D., & Wolfe, J. M. (2016). Patterns of eye movements in breast tomosynthesis and full field digital mammography: an eye tracking study. Paper presented at the RSNA, Chicago.
385. Kosovicheva, A. A., Feffer, J., Alaoui-Soce, A., Cain, M. S., & Wolfe, J. M. (2017). When does visual search move on?: Using the color wheel to measure the dynamics of foraging search. paper presented at the Annual Meeting of the Vision Science Society, May 2017, 23.3045
386. Zou, B., Liu, Y., & Wolfe, J. M. (2017). Effects of prior knowledge on visual search in depth paper presented at the Annual Meeting of the Vision Science Society, May 2017, 23.3043
387. Wu, C.-C., & Wolfe, J. M. (2017). Detecting more than one event at a time in multiple event tracking. paper presented at the Annual Meeting of the Vision Science Society, May 2017, 63.4030
388. Reijnen, E., Kühne, S., & Wolfe, J. M. (2017). Which Cereal Bar? Choose or Reject, does it Matter? paper presented at the Annual Meeting of the Vision Science Society, May 2017, 56.4072.
389. Chin, M., Evans, K. K., Wolfe, J. M., Bowen, J., & Tanaka, J. W. (2017). Inversion effects in the ability to classify mammograms in one second. paper presented at the Annual Meeting of the Vision Science Society, May 2017, 56.4065

390. Schill, H., Culpan, A.-M., Wolfe, J. M., & Evans, K. K. (2017). Detecting the “gist” of breast cancer in mammograms three years before the cancer appears. . paper presented at the Annual Meeting of the Vision Science Society, May 2017, 52.15, 11:45 am
391. Wick, F. A., & Wolfe, J. M. (2017). Multiple object tracking doesn't care if you are crossing the street or bouncing off the walls paper presented at the Annual Meeting of the Vision Science Society, May 2017, 42.14, 11:30 am
392. Aizenman, A., Kok, E. M., Vo, M. L., & Wolfe, J. M. (2017). If I showed you where you looked, you still wouldn't remember paper presented at the Annual Meeting of the Vision Science Society, May 2017, abstract 5.11, 5:15 pm
393. Wolfe, J. M., & Alaoui-Soce, A. (2017). How the Heck Did I Miss That? How to use the hybrid search paradigm to study “incidental finding” errors in radiology. paper presented at the Annual Meeting of the Vision Science Society, May 2017, abstract 23.3048.
394. Gil-Gómez de Liaño, B., Drew, T., Rin, D. F., & Wolfe, J. M. (2017). Variable Viewpoint Hybrid Search: Searching for the Object or the Image? . paper presented at the Annual Meeting of the Vision Science Society, May 2017, abstract 23.3032.
395. Alaoui-Soce, A., Zou, B., & Wolfe, J. M. (2017). Variable Viewpoint Hybrid Search: Searching for the Object or the Image? . paper presented at the Annual Meeting of the Vision Science Society, May 2017, abstract 23.3006
396. Kok, E. M., Aizenman, A., Vo, M. L., & Wolfe, J. M. (2017). If I showed you where you looked, you still wouldn't remember. paper presented at 19th European Conference on Eye Movements will take place at the Bergische Universität Wuppertal, August 20th to 24th, 2017.
397. Wolfe, J. M. (2017). Mixed hybrid search: A model system to study incidental finding errors in radiology. paper presented at the 2017 Medical Image Perception Meeting in Houston TX (July 12-15, 2017).
398. Schill, H., Culpan, A.-M., Wolfe, J. M., & Evans, K. K. (2017). Detecting the “gist” of breast cancer in mammograms. paper presented at the 2017 Medical Image Perception Meeting in Houston TX (July 12-15, 2017).
399. McEntee, M. F., Drew, M. R., Aizenmann, A., Carrigan, A. J., Ekpo, E., & Wolfe, J. M. (2017). Examining the ‘gambler’s fallacy’ in radiology. paper presented at the 2017 Medical Image Perception Meeting in Houston TX (July 12-15, 2017).
400. Gandomkar, Z., Tapia, K., Lewis, S. J., Ekpo, E. U., Trieu, P., Evans, K. K., et al. (2018). Detection of the abnormal gist in the prior mammograms even with no overt sign of breast cancer. Breast Imaging: 14th International Workshop (IWBI 2018), Atlanta, Georgia, United States, Proc. of SPIE.

401. Wiegand, I., & Wolfe, J. M. (2017). Hybrid (combined Visual and Memory) Search in Aging. Paper presented at 2017 European Conference on Visual Perception (ECVP), Berlin, August 27-31.
402. Wolfe, J. M., Schill, H., & Alaoui-Soce, A. (2017). Modeling “incidental finding errors” in medical image perception...and failing to fix the problem. paper presented at 58th Annual Meeting of the Psychonomic Society, Vancouver, BC(Nov 9 -12, 2017).
403. Semizer, Y., Michel, M. M., Evans, K. K., & Wolfe, J. M. (2018). Textures as Global Signals of Abnormality in the Interpretation of Mammograms paper presented at the Annual Meeting of the Vision Science Society, May 2018.
404. Wick, F. A., Kreiman, G., & Wolfe, J. M. (2018). Two targets, held in memory, can guide search; four targets cannot. . paper presented at the Annual Meeting of the Vision Science Society, May 2018.
405. Schill, H., Wick, F. A., Cain, M. S., & Wolfe, J. M. (2018). Hybrid foraging meets navigation: Can augmented reality improve performance in real world search tasks? . paper presented at the Annual Meeting of the Vision Science Society, May 2018.
406. Muñoz-García, A. n. R., Wolfe, J. M., & Gil-Gómez de Liaño, B. T. (2018). Hybrid Foraging Performance is Related to Fluid Intelligence. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
407. Chin, M., Evans, K. K., Wolfe, J. M., & Tanaka, J. W. (2018). Gist Perception and Holistic Processing in Rapidly Presented Mammograms. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
408. Kim, G., Arkadiusz, S., Chen, J., Evans, K. K., & Wolfe, J. M. (2018). Training a Convolutional Neural Network to Detect the Gist of Breast Cancer. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
409. Wiegand, , I., & Wolfe, J. M. (2018). Hybrid visual and memory search is preserved in older age. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
410. Gil-Gómez de Liaño, B. T., Quirós-Godoy, M. a., Pérez-Hernández, E., Cain, M. S., & Wolfe, J. M. (2018). Understanding Visual Search and Foraging in Cognitive Development. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.

411. Quirós-Godoy, M. a., Pérez-Hernández, E., Cain, M. S., Wolfe, J. M., & Gil-Gómez de Liaño, B. T. (2018). Individual Differences in Visual Search and Foraging in children. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
412. Utochkin, I. S., & Wolfe, J. M. (2018). How do 25,000+ visual searches change the visual system? Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
413. Westenberg, E., Wolfe, J. M., & Wiegand, I. (2018). Sequence Learning in Hybrid Visual Search. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
414. Nartker, M., & Wolfe, J. M. (2018). How NOT to cure the incidental finding problem in radiology. Poster presented at the Annual Meeting of the Vision Science Society, May 2018.
415. Wu, C. C., & Wolfe, J. M. (2018). Your hidden capacity revealed! The Multiple Object Awareness (MOA) paradigm. paper presented at Vision Sciences Society meeting, St. Petersburg, FL, May 2018.
416. Evans, K. K., & Wolfe, J. M. (2018). The Gist of a Mammogram Predicts Future Development of Cancer. paper presented at European Conference on Visual Perception, Trieste, Italy, Aug 2018.
417. Wolfe, J. M. (2018). Why Doesn't That Clever Computer Aided Detection System Work as Well as Theory Says It Should? . paper presented at 2018 Annual meeting of the Psychonomic Society, New Orleans (Nov 15-18, 2018).
418. Wolfe, J. M., & Wu, C.-C. (2018). Multiple Object Awareness. paper presented at 2018 Annual meeting of the Psychonomic Society, New Orleans (Nov 15-18, 2018).
419. Wolfe, J. M. (2018). HAICT: A novel methodology for testing human-AI collaborations paper presented at 2018 Annual meeting of the OPAM, New Orleans (Nov 15-16, 2018).
420. Wu, C.-C., & Wolfe, J. M. (2019). Useful Field of View shows why we miss the search target when we "look at" it. paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.
421. Wick, F. A., Kreiman, G., & Wolfe, J. M. (2019). Computational strategies used during hybrid visual search. paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.
422. Kosovicheva, A., & Wolfe, J. M. (2019). When do you find the next item?: Using occluders to uncover the time course of visual foraging paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

423. Muñoz-García, A. R., Wolfe, J. M., & Gil-Gómez de Liaño, B. T. (2019). Intelligence, Impulsivity and Selective Attention have something to tell us about Hybrid Foraging performance paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

424. Westenberg, E., Wolfe, J. M., & Wiegand, I. (2019). Explicit Sequence Learning in Hybrid Visual Search in Younger and Older Age paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

425. Nartker, M., & Wolfe, J. M. (2019). From the clinic to the lab and back: Fixing the problem of missed “incidental findings”. paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

426. Wolfe, J. M., & Nartker, M. (2019). Playing nicely with your robot. paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

427. Schill, H., Wolfe, J. M., & Brady, T. F. (2019). Memory capacity meets expertise: increased capacity for abnormal images in expert radiologists paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

428. Khvostov, V. A., Utochkin, I. S., & Wolfe, J. M. (2019). Grouping does not help you to guide conjunction visual search, paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

429. Gil-Gómez de Liaño, B. T., Pérez-Hernández, E., Quirós-Godoy, M., & Wolfe, J. M. (2019). Is higher susceptibility to attentional deficits in children related to lower susceptibility to Inattentive Blindness in visual search, paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

430. Drew, T., Williams, L., Wolfe, J. M., & Wiegand, I. (2019). How do you know if you saw that? Electrophysiological correlates of searching through memory. paper presented at the Annual Meeting of the Vision Science Society, May 17-22, 2019.

431. Khvostov, V. A., Utochkin, I. S., & Wolfe, J. M. (2019). The role of categorical grouping and segmentation in the subset visual search task. paper presented at 42nd European Conference on Visual Perception, Leuven, Belgium, Aug 2019.

432. Wolfe, J. M., & Wu, C. C. (2019). Guided Search and the Functional Visual Field (FVF). paper presented at the 2019 meeting of the Psychonomic Society, Montreal, Nov, 2019, (paper presented by Todd Horowitz in my absence).

433. Gil-Gómez de Liaño, B. T., Wiegand, I., & Wolfe, J. M. (2019). Your Children and Your Parents are Not Optimal: Quitting Rules in Hybrid Foraging Over the Lifespan. paper presented at the 2019 meeting of the Psychonomic Society, Montreal, Nov, 2019.

434. Lyu, W., Levari, D. E., Little, D. S., & Wolfe, J. M. (2020). Prevalence effects on perceptual decisions: Category broadening, elevated miss rates, or both? *Journal of Vision*, 20(11), 720-720. doi: 10.1167/jov.20.11.720 (VSS 2020, on-line, COVID)
435. Suresh, S., Wu, C.-C., Gresch, D., & Wolfe, J. M. (2020). Multiple Functional Visual Fields (FVFs) surround the same fixation point during visual search. *Journal of Vision*, 20(11), 716-716. doi: 10.1167/jov.20.11.716 (VSS 2020, on-line, COVID)
436. Wu, C.-C., Kumle, L., Nartker, M., & Wolfe, J. (2020). What you don't see can help you: Image triage in human-AI interactions. *Journal of Vision*, 20(11), 519-519. doi: 10.1167/jov.20.11.519 (VSS 2020, on-line, COVID)
437. Gil-Gómez de Liaño, B., Nartker, M., Pérez-Hernández, E., & Wolfe, J. M. (2020). Grandma, didn't you see that gorilla? Age effects in inattentive blindness during a hybrid foraging game. *Journal of Vision*, 20(11), 448-448. doi: 10.1167/jov.20.11.448 (VSS 2020, on-line, COVID)
438. Wick, F., Wu, C.-C., Iyer, D., & Wolfe, J. (2020). Training Multiple Object Awareness (MOA). *Journal of Vision*, 20(11), 399-399. doi: 10.1167/jov.20.11.399 (VSS 2020, on-line, COVID)
439. Wolfe, J. (2020). Guided Search 6.0: An upgrade with five forms of guidance, three types of functional visual fields, and two, distinct search templates. *Journal of Vision*, 20(11), 303-303. doi: 10.1167/jov.20.11.303 (VSS 2020, on-line, COVID)
440. Williams, L., Wiegand, I., Lavelle, M., Wolfe, J., Fukuda, K., & Drew, T. (2020). What is the role of working memory in hybrid search?: Evidence from the Contralateral Delay Activity. *Journal of Vision*, 20(11), 261-261. doi: 10.1167/jov.20.11.261 (VSS 2020, on-line, COVID)
441. Nishikawa, R. M., D'Ardenne, N. M., Zuley, M. L., Wu, C.-C., & Wolfe, J. M. (2020). Comparison of Radiologists' Reading Errors between Digital Mammography and Breast Tomosynthesis. *paper presented at American Association of Physicists in Medicine*.
442. Liu, W., Romito, O. R., & Wolfe, J. M. (2020). Distinct non-target items regulate category boundary shifts at low target prevalence. *poster presented at OPAM annual meeting, November 18-19, 2020 (on-line, COVID)*
443. Wolfe, J. M., Lyu, W., Levari, D. E., Nartker, M., & Little, D. R. (2020). Having It Both Ways: How Decreasing Target Prevalence Can Produce Diametrically Opposed Effects on the Same Perceptual Decision. *paper presented at the 2020 meeting of the Psychonomic Society, Nov 19-21 (on line / COVID)*.
444. Gronau, N., Nartker, M., Yakim, S., Utochkin, I. S., & Wolfe, J. M. (2020). Semantic Content Allows Flexible Memory-Partitioning in Hybrid Search. *paper presented at the 2020 meeting of the Psychonomic Society, Nov 19-21 (on line / COVID)*.

445. Gil-Gómez de Liaño, B. T., & Wolfe, J. M. (2020). Memory Effects in Hybrid Foraging Over the Lifespan. . *paper presented at the 2020 meeting of the Psychonomic Society, Nov 19-21 (on line / COVID).*

446. Boettcher, S. E. P., Shalev, N., Wolfe, J. M., & Nobre, A. C. (2021). Right Place, Right Time: Spatiotemporal regularities guide attention in a dynamic setting. *63rd TeaP - Tagung experimentell arbeitender Psychologen (Conference of Experimental Psychologists), On-line (COVID era).*

447. Ernst, D., & Wolfe, J. M. (2021). What fixation durations reveal about the functional visual field and target guidance. *63rd TeaP - Tagung experimentell arbeitender Psychologen (Conference of Experimental Psychologists), On-line (COVID era).*