

## Curriculum Vita

**Jeffrey D. Schall**

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		ORCID	<a href="https://orcid.org/0000-0002-5248-943X">orcid.org/0000-0002-5248-943X</a>

### Education

1986 Ph.D., Anatomy, University of Utah, Salt Lake City, Utah.  
1982 B.S.Chem., Chemistry, University of Denver, Denver, Colorado.

### Scholastic and Professional Distinction

2014 Fellow, American Association for the Advancement of Science  
2009 Chancellor's Research Award, Vanderbilt University  
2004 Fellow, Association of Psychological Science  
2002 Elected, International Neuropsychology Symposium  
2001 Ellen Gregg Ingalls Award for Excellence in Classroom Teaching  
1998 Troland Research Award, National Academy of Sciences  
1997-2000 Investigator Award, McKnight Endowment Fund for Neuroscience  
1990-1992 Alfred P. Sloan Research Fellow  
1987 Association of Anatomy Chairmen Outstanding Dissertation Award Finalist, American Association of Anatomists.  
1986 James W. Prahl Memorial Award for the Outstanding Graduate Student, University of Utah School of Medicine.  
1986 Phi Kappa Phi, University of Utah.  
1984 Graduate Research Fellow, University of Utah.  
1982 Phi Beta Kappa, University of Denver.  
1980 University Scholar, University of Denver.

### Professional Experience

2003 - E. Bronson Ingram Professor of Neuroscience, Vanderbilt University  
2000- Director, Center for Integrative & Cognitive Neuroscience  
1999- Professor, Department of Psychology, Vanderbilt University  
1998-2015 Director, Vanderbilt Vision Research Center  
1998-2019 Director, Vision Training Program  
1995-1999 Associate Professor, Department of Psychology, Vanderbilt University  
1990- Kennedy Center Investigator  
1989-1995 Assistant Professor, Department of Psychology, Vanderbilt University  
1986-1989 Postdoctoral Fellow, Department of Brain & Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts, P.H. Schiller, Ph.D.  
1982-1986 Research Associate, Department of Anatomy, University of Utah, Salt Lake City, Utah, A.G. Leventhal, Ph.D.  
1981-1982 Research Assistant, Brain Research Laboratory, National Jewish Hospital and Asthma Center, Denver, Colorado, D.W. Shucard, Ph.D.  
1980-1982 Research Assistant, Physiological Psychology Laboratory, Department of Psychology, University of Denver, Denver, Colorado, J.A. Trowill, Ph.D., M.L. Laudenslager, Ph.D.

### Funding

- 1986-1989 National Research Service Award, National Eye Institute, EY05959, The Role of the Supplementary Motor Area in Eye Movements, \$63,996 total costs for 3 years.
- 1990-1992 Alfred P. Sloan Research Fellowship, \$25,000 total costs
- 1991-1993 P.I., McDonnell-Pew Program in Cognitive Neuroscience, 90-39, Neural Correlates of Directed Visual Attention in Visuomotor Cortex of Macaque Monkeys, \$60,000 total costs
- 1991-1996 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$554,169 total costs
- 1993 P.I., University Research Council, Support for Behavioral Physiology Experiments, \$6,013
- 1993-1996 Sponsor, Kirk Thompson, NRSA F32-EY06495, National Eye Institute, Thalamocortical Transformations: Visuomotor Thalamus, \$75,900 total costs
- 1993-1996 Sponsor, Kirk Thompson, McDonnell-Pew Program in Cognitive Neuroscience, Neural Correlates of Visual Awareness, \$90,000 total costs
- 1994-1995 Preceptor, Doug P. Hanes, T32-EY07135 National Eye Institute, Training Grant in Vision Research.
- 1995-1998 Sponsor, Doug Hanes, NRSA F31-MH11178, National Institute of Mental Health, Regulation of Saccade Initiation: Frontal Cortex \$39,024
- 1995-1996 Neuroscience module director, Howard Hughes Medical Institute Undergraduate Biological Sciences Education Program (71195-513803), \$76,100 direct costs (supplemented by \$32,000 from College of Arts & Sciences)
- 1996-2000 P.I., National Eye Institute, R01-EY08890 renewal, Saccade Target Selection: Frontal Cortex, \$722,735 total costs
- 1996-2001 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$838,792 total costs
- 1997-2000 Investigator Award, McKnight Endowment Fund for Neuroscience, Neural Selection and Control of Visually Guided Action \$150,000 total costs
- 1998-2003 P.I., National Eye Institute, T32-EY07135, Training Grant in Vision Research, \$828,258 total direct costs
- 1998-2003 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research, \$1,892,148 total costs
- 2000-2005 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$1,868,460 total costs
- 2001-2006 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$1,756,946 total costs
- 2002-2005 Sponsor, Stephanie Shorter-Jacobi, NRSA F32-EY14502, National Eye Institute, Neural Control of Orienting by Macaque Frontal Eye Field
- 2002-2005 coP.I. (with Gordon Logan and Tom Palmeri), National Science Foundation BCS0218507, Stochastic Models of Executive Control in Monkeys and Humans, Joint NSF/NIH Initiative to Support Collaborative Research in Computational Neuroscience, \$756,181 total costs
- 2003-2006 Sponsor, Geoff Woodman, NRSA F32 EY015043, National Eye Institute, Neural Correlates of Visual Object-Substitution Masking
- 2004-2007 coSponsor (with Tom Palmeri), Leanne Boucher, NRSA F32EY016679, National Eye Institute, Modeling Interactive Motor Processes
- 2004-2009 P.I., National Eye Institute, T32-EY07135, Training Grant in Vision Research, \$2,832,395 total costs
- 2004-2009 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research, \$3,020,000

- total costs
- 2005-2010 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$1,868,460 total costs
- 2006-2008 Sponsor, Melanie Leslie, NRSA F32EY017765, National Eye Institute, Ensemble Neural Monitoring and Saccadic Control
- 2006-2011 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$1,726,688 total costs
- 2007-2010 coPI with Gordon Logan, Air Force Office of Scientific Research, FA9550-07-1-0192, Modeling the Role of Priming in Executive Control: Cognitive and Neural Constraints, \$707,000 total costs
- 2007-2010 PI, MacArthur Law and Neuroscience Project, Neurons, Actions, Reasons and Crimes - A Dialogue between Law and Neuroscience, \$10,000 total costs
- 2008-2011 coSponsor (with Sohee Park), Katherine Thakkar, NRSA F31MH085405, National Institute of Mental Health, Control of action in schizophrenia: Countermanding saccades and ERP
- 2009-2011 Sponsor, Richard Heitz, NRSA F32EY019851, National Eye Institute, Neurophysiological Correlates Of Decision Formation
- 2010-2015 P.I., National Eye Institute, T32-EY07135, Training Grant in Vision Research, \$2,832,395 total costs
- 2010-2015 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research, \$3,875,000 total costs
- 2011-2015 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$1,558,750 total costs
- 2011-2014 multi-PI with Tom Palmeri & Gordon Logan, National Eye Institute, 1R01EY21833, Stochastic Models of Visual Search
- 2012-2017 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$390,000 total costs
- 2013-2015 coSponsor (with Geoff Woodman), Joshua Cosman, NRSA, F32EY023922, National Eye Institute, The Role of Long-Term Contextual Memory in Attentional Control
- 2013-2015 Sponsor, Paul Middlebrooks, NRSA F32EY23526, National Eye Institute, Neuronal mechanisms of response inhibition during decision making
- 2014-2018 multi-PI with Tom Palmeri & Gordon Logan, National Eye Institute, 1R01EY21833, Stochastic Models of Visual Decision Making and Visual Search
- 2015-2020 coPI (with Geoff Woodman), National Eye Institute, T32-EY07135, Training Grant in Vision Research
- 2015-2016 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research  
Principal Investigator transferred to David Calkins
- 2015-2016 Co-Investigator (with Charles Caskey), Focused Ultrasound Surgery Foundation, High-Risk Track, Noninvasive targeted neuromodulation and functional imaging in behaving macaques
- 2015-2018 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex
- 2016-2018 Co-Investigator (with Charles Caskey), National Institute of Mental Health, R24-MH109105, Neuron selective modulation of brain circuitry in non-human primates
- 2015-2017 Co-Sponsor, Brent Miller, NRSA F32EY025538, National Eye Institute, Ensemble accumulator modeling of speed-accuracy tradeoff in visual search
- 2017-2019 Co-Sponsor, Zachary J.J. Roper, NRSA F32EY028041, National Eye Institute, A comparative electrophysiological study on the mechanisms of selective attention
- 2018-2020 Sponsor, Thomas R. Reppert, NRSA F32028846, National Eye Institute, Linking propositions for stages of processing during visual Search

2019-2020 P.I., R13-EY030353-01, National Eye Institute, 2019 Eye Movements GRC/GRS

### **Teaching Experience**

Visual System, Neuroscience & Law (with Owen Jones of VU Law School), College Scholars Program: Neuroethics, Methods in Behavioral Neuroscience, Movement, Introduction to Neuroscience, Seminar in Physiological Psychology: Psychology of Human Motor Control, Brain & Behavior, Freshman Seminar, Seminar in Physiological Psychology: Current Issues in Neuroscience, Seminar in Physiological Psychology: Eye Movements and Attention, Brain & Behavior, College Scholars Program: Seminar in Neuroscience

### **Graduate students supervised**

- 1991-1997 Doug Hanes, Department of Psychology Graduate Program.  
Intramural fellow with Robert Wurtz in the Laboratory for Sensorimotor Research, NIH  
Currently Divisional Vice President and General Manager, GMAC Insurance
- 1994-1999 Narcisse Bichot, Department of Psychology Graduate Program  
Currently Research Scientist, Massachusetts Institute of Technology
- 1999-2003 Takashi Sato, Department of Psychology Graduate Program  
Currently Assistant Professor, Department of Neuroscience, Medical University of South Carolina
- 2001-2003 Shigehiko Ito, Department of Psychology Graduate Program  
Currently Legal Associate, White & Case LLP
- 2004 - 2009 Jeremiah Cohen, Neuroscience Graduate Program  
Currently Assistant Professor, Department of Neuroscience, Johns Hopkins University School of Medicine.
- 2003-2006 Corrie Camalier (with Gordon Logan and Tom Palmeri), Neuroscience Graduate Program  
Currently Postdoctoral Fellow, Laboratory of Neuropsychology, NIMH
- 2002 - 2010 Erik Emeric, Neuroscience Graduate Program  
Currently Research Associate with Veit Stuphorn, Zanvyl Krieger Mind-Brain Institute, Johns Hopkins University
- 2006 - 2011 Matthew Nelson, California Institute of Technology Graduate Program  
Currently postdoctoral research associate with Stan Dehaene, INSERM-CEA Cognitive Neuroimaging Unit
- 2006 - 2012 Katherine Thakkar (with Sohee Park), Psychological Sciences Graduate Program  
Currently Assistant Professor of Psychology, Michigan State University
- 2007 - 2013 Braden Purcell (with Tom Palmeri and Gordon Logan), Psychological Sciences Graduate Program  
Currently postdoctoral fellow with Roozbeh Kiani and XJ Wang, Center for Neural Science, New York University

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- 2008 - 2013 David Godlove, Neuroscience Graduate Program  
Currently Bioinformatics Architect, Sapient Government Services
- 2010 - Robert Reinhart (with Geoff Woodman), Psychological Sciences Graduate Program  
Currently Assistant Professor of Psychology, Boston University
- 2011 Masters Thesis advisor for Mirjam Bloemendaal, MSc in Brain and Cognitive Sciences,  
University of Amsterdam, Cognitive Science
- 2013 - 2014 Dylan Morrow-Jones, Neuroscience Graduate Program
- 2014 - 2016 Siyuan Yin, Psychological Sciences Graduate Program
- 2015 - Kaleb Lowe, Psychological Sciences Graduate Program
- 2016 - Jacob Westerberg (with Alex Maier), Psychological Sciences Graduate Program
- 2017 - Steven Errington, Psychological Sciences Graduate Program
- 2018 - External advisor, Beatriz Herrera, Department of Biomedical Engineering, Florida  
International University
- Postdoctoral fellows and associates supervised**
- 1992-2000 Kirk G. Thompson, NEI Research Fellow, Research Assistant Professor  
currently Scientific Review Officer, CSR, NIH, Bethesda, Maryland
- 1997-2000 Chenchal Rao Subraveti, Research Associate  
currently Senior Neuroinformatics Research Associate, Vanderbilt University
- 1998-2000 Tracy Taylor, NSERC Fellow  
currently Professor, Department of Psychology, Dalhousie University
- 1998-2003 Veit Stuphorn, Research Fellow, DFG Forschungsstipendium  
currently Associate Professor, Department of Psychological and Brain Sciences, The  
Johns Hopkins University
- 1998-2001 Aditya Murthy, Research Associate  
currently Associate Professor, Centre for Neuroscience, Indian Institute of Science
- 2000-2001 Joshua Brown, Research Associate  
currently Associate Professor, Department of Psychological and Brain Sciences, Indiana  
University
- 2002 -2003 Chi-Hung Juan, Research Associate  
currently Professor, Institute of Cognitive Neuroscience, National Central University,  
Taiwan
- 2001 - 2006 Stephanie Shorter, NEI Research Fellow  
currently Director of Research and Publications for the Yoga Care Foundation, Austin,

- Texas.
- 2002 - 2007 Geoff Woodman, NEI Research Fellow  
currently Associate Professor, Department of Psychology, Vanderbilt University
- 2005 - 2008 Melanie Leslie, NEI Research Fellow  
currently in private life
- 2004 - 2008 Pierre Pouget, Research Associate  
currently Faculty Member, Université Pierre et Marie Curie, Institut du Cerveau et de la Moelle épinière (ICM), Paris, France
- 2003 - 2009 Leanne Boucher, NEI Research Fellow  
currently Associate Professor, Nova Southeastern University
- 2007 - 2009 Supriya Ray, Research Associate  
currently Assistant Professor and Wellcome Trust DBT Intermediate Fellow, Centre of Behavioural and Cognitive Sciences (CBCS), University of Allahabad
- 2009 - 2010 Claudia Wilimzig, Research Associate  
currently Medical Writer for Carl Zeiss Meditec, Berlin, Germany
- 2007 - 2014 Richard Heitz, NEI Research Fellow  
currently Principal Data Scientist, Abbott Laboratories, Chicago, IL
- 2011 – 2014 Bram Zandbelt, Postdoctoral research associate (with Gordon Logan & Tom Palmeri)  
currently Research Associate with Roshan Cools, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands.
- 2013 - 2015 Taihei Ninomiya, Postdoctoral research associate  
currently Assistant Professor, National Institute for Physiological Sciences, Okazaki, Japan
- 2011 - 2016 Joshua Cosman, NEI research fellow (with Geoff Woodman)  
currently Associate Director of Translational Neuromedicine, Pfizer Inc., Cambridge MA
- 2011 - 2016 Kiesuke Fukuda, Postdoctoral research associate (with Geoff Woodman)  
Assistant Professor, Department of Psychology, University of Toronto Mississauga
- 2011 - 2017 Paul Middlebrooks, NEI research fellow (with Gordon Logan & Tom Palmeri)
- 2013 - 2016 Wolf Zinke, Postdoctoral research associate (with Alex Maier and Geoff Woodman)
- 2014 – 2017 Brent Miller, NEI research fellow (with Tom Palmeri & Gordon Logan)
- 2016 - 2018 Mathieu Servant, Postdoctoral research associate (with Gordon Logan, Tom Palmeri & Geoff Woodman)  
Assistant Professor, Department of Psychology, University of Franche-Comté, Besançon, France.

- 2016 - 2018 Zachary Roper, Postdoctoral research associate (with Geoff Woodman)
- 2016 - Thomas Reppert, NEI Postdoctoral research fellow
- 2016 - Amirsaman Sajad, CIHR Postdoctoral research fellow

#### **Professional Service - Manuscript Review**

- 2010- Editorial Board for *Frontiers in Neuroscience*
- 2009- Advisory Board for *Faculty of 1000 Biology Reports*
- 2002- Editorial Board, *Journal of Neurophysiology*
- 2001 - 2006 Associate Editor, *Journal of Neuroscience*
- 2001- 2015 Abstract Review Committee, Vision Science Society

Reviewer for *Cerebral Cortex*, *Cognitive Psychology*, *eLife*, *eNeuro*, *European Journal of Neuroscience*, *Experimental Brain Research*, *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Human Perception and Performance*, *Nature*, *Nature Neuroscience*, *Neuroimage*, *Neuron*, *Proceedings of the National Academy of Sciences*, *Public Library of Science*, *Science*, *Trends in Cognitive Science*

#### **Professional Service - Grant Review**

- 2015 National Eye Institute Board of Scientific Counselors (ad hoc)
- 2013 National Institutes of Health, special emphasis panel review: Neurobiology of active vision (Chair)
- 2012 National Eye Institute, Special Emphasis Panel to review P30 grants
- 2010, 2011 National Eye Institute, Special Emphasis Panel to review T32 grants (2010 Chair)
- 2007 - 2009 Chair, NIH Central Visual Processing Study Section
- 2005 - NIH Central Visual Processing Study Section
- 2003, 2004 National Eye Institute, Special Emphasis Panel to review R01 grants
- 2002 National Eye Institute, Special Emphasis Panel to review Core Grants.
- 2000, 2001 National Institute of Mental Health, Neuroscience and Behavioral Science Review Branch, Silvio Conte Center Grants
- 1999, 2001 National Eye Institute, Special Emphasis Panel to review T32 grants.
- 1999, 2001 National Science Foundation, Sensory Systems
- 1998 National Eye Institute, Mentored Clinical Scientist Development Award
- 1998 National Science Foundation, Division of Integrative Biology and Neuroscience
- 1997 National Science Foundation, Behavioral Neuroscience
- 1996 The Wellcome Trust
- 1996 The Israel Science Foundation
- 1996 Department of Veterans Affairs Merit Review application for the VA Medical Research Service
- 1993 NIH Neurological Disorders Program Project Review B Committee
- 1993 Ad hoc, NIH Behavioral and Neurosciences Study Section 1

#### **Professional Service – Other**

- 2020- Federation of Associations in Behavioral & Brain Sciences (FABBS) Board of Directors
- 2019-2020 Vision Science Society, Past President
- 2018-2019 Vision Science Society, President

2018-2019 Council of Representatives, Federation of Associations in Behavioral and Brain Sciences  
 2017, 2019 Co-Chair, Gordon Research Conference on Eye Movements  
 2015-2020 Vision Science Society Board of Directors, Treasurer  
 2013- International Scientific Advisory Board for the Brain and Mind Institute (BMI),  
 University of Western Ontario  
 2003 Advisory Panel for 5 year Strategic Plan for Strabismus, Amblyopia and Visual  
 Processing, National Eye Institute  
 2003 Advisory Board, Silvio O. Conte Center for Neuroscience Research: Cognitive and  
 Neural Mechanisms of Conflict and Control, Princeton University  
 2001 I-RITE, Stanford University  
 2001 - 2015 Program committee, Vision Science Society  
 1992 Judge for 43rd International Science and Engineering Fair, Nashville, TN  
 1988 Participated in the Science-by-Mail program for school children, Boston Science  
 Museum.  
 1984, '85, '86 Judge for Intermountain Junior Science and Humanities Symposium, University of Utah

#### **Department, College & University Service**

2019- Chair, Faculty Advisory Committee for Large Animals, Vanderbilt University  
 2016, 2017 Search Committee for Vanderbilt Brain Institute Director  
 2014- Institutional Animal Care & Use Committee  
 2008-2009 Task Force on Graduate Education, Vanderbilt University  
 2006-2008 Board of Advisors for the Vanderbilt University Center for Ethics  
 2004 Internal Advisory Committee, Vanderbilt University Institute of Imaging Science  
 2003-2004 Committee on Moral Reasoning, Vanderbilt University  
 2003- Kennedy Center Core Advisory Committee  
 2002 *Ad hoc* committee on Undergraduate Research, Vanderbilt University  
 2002- Advisory Committee for Interdisciplinary Major in Communication of Science,  
 Engineering and Technology, Vanderbilt University  
 2001- Faculty Advisory Committee for Large Animals, Vanderbilt University  
 2001 Search committee for the Chair, Department of Ophthalmology & Visual Science,  
 Vanderbilt University  
 2001- 2015 Discovery Grant Review Committee, Vanderbilt University  
 2000- Director, *Center for Integrative & Cognitive Neuroscience*  
 2000-2001 Search committee, Division of Animal Care clinical veterinarian  
 1999-2003 Director, Sensory Sciences and Neural Plasticity program, Kennedy Center  
 1999- Neuroscience Council, Advisory Committee for Vanderbilt Brain Institute  
 1999- Neuroscience Graduate Program Faculty Advisory Committee  
 1999-2001 Organizing Committee for Vanderbilt University Conference on Genomics, May 2001  
 1999-2000 Kennedy Center Research Associate Review Committee  
 1999 College of Arts & Science, Admissions Committee  
 1998-1999 Chair, Committee to recommend a Center for Integrative and Cognitive Neuroscience,  
 Vanderbilt University  
 1998-1999 Search Committee for Associate Provost for Research, Vanderbilt University  
 1998 Transinstitutional Research Committee, Vanderbilt University  
 1998- 2003 Kennedy Center Coordinating Committee  
 1998 Participant in workshop “Worlds Apart - Chronicling Discovery”, organized by Rick  
 Chappell and Jim Hartz, sponsored by the First Amendment Center and the Office for  
 Media Relations, Vanderbilt University  
 1996-1997 Committee to Develop Undergraduate Neuroscience Major, College of Arts & Sciences,



	Vanderbilt University
1996-1997	Vanderbilt University Research Strategy and Policy Committee
1994-2000	Vanderbilt University Animal Care Committee
1993-2000	Director of Department of Psychology Animal Facility, Vanderbilt University.
1993	Department of Psychology ad hoc Committee on Faculty Recruitment
1990-	Graduate Studies Committee, Department of Psychology, Vanderbilt University.

### Professional Affiliations

2007-	Society for Evolutionary Analysis in Law
2003-	Association of Psychological Science
2002-	American Physiological Society
2001- 2003	International Neuropsychology Symposium
2001 -	Vision Science Society
1995-	Neural Control of Movement
1993-	Cognitive Neuroscience Society
1986-	American Association for the Advancement of Science
1984-	Association for Research in Vision and Ophthalmology
1983-	Society for Neuroscience

### Books

- Owen D. Jones, Jeffrey D. Schall, Francis X. Shen (2014) *LAW AND NEUROSCIENCE*. Wolters Kluwer Law & Business. June 16, 2014. <http://www.psy.vanderbilt.edu/courses/neurolaw/>
- Owen D. Jones, Jeffrey D. Schall, Francis X. Shen (2015) *LAW AND NEUROSCIENCE: A Teachers Manual*. Wolters Kluwer Law & Business.
- Owen D. Jones, Morris Hoffman, Jeffrey D. Schall, Francis X. Shen (2020) *BRAIN SCIENCE FOR LAWYERS*. In negotiation with American Bar Association
- Owen D. Jones, Jeffrey D. Schall, Francis X. Shen (2020) *LAW AND NEUROSCIENCE, 2<sup>nd</sup> edition*. Wolters Kluwer Law & Business.
- David Calkins, Jeffrey D Schall, Geoffrey F Woodman (Editors) *THE VISUAL SYSTEM*. Sinauer/Oxford (to appear in 2020).

### Edited volumes

- 1) Thomas Geyer, Chris Olivers, **Jeffrey D. Schall**, Jeremy Wolfe (editors) (2020) *Visual Cognition*. Special Issue devoted to the 4<sup>th</sup> meeting of Visual Search and Selective Attention (VSSA IV) Volume 27, 2019 - Issue 5-8.
- 2) Asif Shaikh, **Jeffrey D. Schall** (editors) (2020) Vision and Action. *Journal of Computational Neuroscience*. Special issue devoted computational models of gaze control in honor of the retirement of Lance M. Optican (in preparation)

### Peer-reviewed Publications

- 1) Leventhal, A.G. & **J.D. Schall** (1983) Structural basis of orientation sensitivity in cat retinal ganglion cells. *Journal of Comparative Neurology* 220:465-475.
- 2) Leventhal, A.G., **J.D. Schall** & W. Wallace (1984) Relationship between preferred orientation and receptive field position of neurons in extrastriate cortex (area 19) in the cat. *Journal of*

- Comparative Neurology* 222:445-451.
- 3) Vitek, D.J., **J.D. Schall** & A.G. Leventhal (1985) Morphology, central projections and dendritic field orientation of retinal ganglion cells in the ferret. *Journal of Comparative Neurology* 241:1-11.
  - 4) **Schall, J.D.**, V.H. Perry & A.G. Leventhal (1986) Retinal ganglion cell dendritic fields in old-world monkeys are oriented radially. *Brain Research* 368:18-23.
  - 5) **Schall, J.D.**, D.J. Vitek & A.G. Leventhal (1986) Retinal constraints on orientation specificity in cat visual cortex. *Journal of Neuroscience* 6:823-836.
  - 6) **Schall, J.D.** & A.G. Leventhal (1987) Relationships between ganglion cell dendritic structure and retinal topography in the cat. *Journal of Comparative Neurology* 257:149-159.
  - 7) **Schall, J.D.**, V.H. Perry & A.G. Leventhal (1987) Ganglion cell dendritic structure and retinal topography in the rat. *Journal of Comparative Neurology* 257:160-165.
  - 8) Leventhal, A.G., **J.D. Schall** & S.J. Ault (1988) Extrinsic determinants of retinal ganglion cell morphology in the cat. *Journal of Neuroscience* 8:2028-2038.
  - 9) Leventhal, A.G., **J.D. Schall**, S.J. Ault, J.M. Provis & D.J. Vitek (1988) Class specific cell death shapes the distribution and pattern of central projection of cat retinal ganglion cells. *Journal of Neuroscience* 8:2011-2027.
  - 10) **Schall, J.D.**, S.J. Ault, D.J. Vitek & A.G. Leventhal (1988) Experimental induction of an ipsilateral visual field representation in the visual pathway of normally pigmented cats. *Journal of Neuroscience* 8:2039-2048.
  - 11) Logothetis, N.K. and **J.D. Schall** (1989) Neuronal correlates of subjective visual perception. *Science* 245:761-763
  - 12) Logothetis, N.K. and **J.D. Schall** (1990) Binocular motion rivalry in macaque monkeys: Eye dominance and tracking eye movements. *Vision Research* 30:1409-1419.
  - 13) Garraghty, P.E., **J.D. Schall** and J.H. Kaas (1990) Normal somatotopy in SI of tyrosinase-negative albino cats. *Brain Research* 536:315-317.
  - 14) **Schall, J.D.** (1991) Neuronal activity related to visually guided saccadic eye movements in the supplementary motor area of rhesus monkeys. *Journal of Neurophysiology* 66:530-558.
  - 15) **Schall, J.D.** (1991) Neuronal activity related to visually guided saccades in the frontal eye fields of rhesus monkeys: Comparison with supplementary eye fields. *Journal of Neurophysiology* 66:559-579.
  - 16) Parthasarathy, H.B., **J.D. Schall** and A.M. Graybiel (1992) Distributed but convergent ordering of striatal projections: The frontal eye field and the supplementary eye field in the monkey. *Journal of Neuroscience* 12:4468-4488.
  - 17) **Schall, J.D.**, A. Morel and J. Kaas (1993) Topography of supplementary eye field afferents to frontal eye field in macaque: Implications for mapping between saccade coordinate systems. *Visual Neuroscience* 10:385-393.
  - 18) **Schall, J.D.**, M.R. Nawrot, R. Blake, K.P. Yu (1993) Visually guided attention is neutralized when informative cues are visible but unperceived. *Vision Research* 33:2057-2064.
  - 19) **Schall, J.D.** and D.P. Hanes (1993) Neural basis of saccade target selection in frontal eye field during visual search. *Nature* 366:467-469.
  - 20) Hanes, D.P., Thompson, K.G. and **J.D. Schall** (1995) Relationship of presaccadic activity in frontal eye field and supplementary eye field to saccade initiation in macaque: Poisson spike train analysis. *Experimental Brain Research* 103:85-96.
  - 21) **Schall, J.D.**, A. Morel, D. King and J. Bullier (1995) Topography of visual cortical afferents to frontal eye field in macaque: Convergence and segregation of processing streams. *Journal of Neuroscience* 15:4464-4487.
  - 22) Hanes, D.P. and **J.D. Schall** (1995) Countermanding saccades in macaque. *Visual Neuroscience* 12:929-937.
  - 23) **Schall, J.D.**, D.P. Hanes, K.G. Thompson and D.J. King (1995) Saccade target selection in frontal

- eye field of macaque. I. Visual and premovement activation. *Journal of Neuroscience* 15:6905-6918.
- 24) Bichot, N.P., **J.D. Schall** and K.G. Thompson (1996) Visual feature selectivity in frontal eye fields induced by experience in mature macaques. *Nature* 381:697-699.
  - 25) Hanes, D.P. and **J.D. Schall** (1996) Neural control of voluntary movement initiation. *Science* 274:427-430.
  - 26) Thompson, K.G., D.P. Hanes, N.P. Bichot and **J.D. Schall** (1996) Perceptual and motor processing stages identified in the activity of macaque frontal eye field neurons during visual search. *Journal of Neurophysiology* 76:4040-4055.
  - 27) Thompson, K.G., N.P. Bichot and **J.D. Schall** (1997) Dissociation of target selection from saccade planning in macaque frontal eye field. *Journal of Neurophysiology* 77:1046-1050.
  - 28) Hanes, D.P., W.F. Patterson, **J.D. Schall** (1998) The role of frontal eye field in countermanding saccades: Visual, movement and fixation activity. *Journal of Neurophysiology* 79:817-834.
  - 29) Schmolesky, M.T. Y.-C. Wang, D.P. Hanes, K.G. Thompson, S. Leutgeb, **J.D. Schall** and A.G. Leventhal (1998) Signal timing across the macaque visual system. *Journal of Neurophysiology* 79:3272-3278.
  - 30) Bichot, N.P. and **J.D. Schall** (1999) Saccade target selection in macaque during feature and conjunction visual search. *Visual Neuroscience* 16:81-89.
  - 31) Thompson, K.G. and **J.D. Schall** (1999) The detection of visual signals by macaque frontal eye field during masking. *Nature Neuroscience* 2:283-288.
  - 32) Bichot, N.P. and **J.D. Schall** (1999) Effects of similarity and history on neural mechanisms of visual selection. *Nature Neuroscience* 2:549-554.
  - 33) Thompson, K.G. and **J.D. Schall** (2000) Antecedents and correlates of visual detection and awareness in macaque prefrontal cortex. *Vision Research* 40:1523-1538.
  - 34) Stuphorn V, Taylor TL, **Schall JD** (2000) Performance monitoring by supplementary eye field. *Nature* 408:857-860.
  - 35) Bichot NP, Thompson KG, Rao SC, **Schall JD** (2001) Reliability of frontal eye field neurons signaling saccade targets during visual search. *Journal of Neuroscience* 21:713-725.
  - 36) Bichot NP, Rao SC, **Schall JD** (2001) Continuous processing in macaque frontal cortex during visual search. *Neuropsychologia* 39:972-982.
  - 37) Sato T, **Schall JD** (2001) Pre-excitatory pause in frontal eye field responses. *Experimental Brain Research* 139:53-58.
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- 197) Sajad A, Schall JD (2018) Microcircuitry of performance monitoring: Laminar origin of outcome monitoring and executive control in supplementary eye field Program No. 272.14 2018 Neuroscience Meeting Planner.
- 198) Reppert TR, Heitz RP, Schall JD (2018) Visual search strategies: Performance monitoring by macaque supplementary eye field during speed-accuracy tradeoff. Program No. 486.09 2018 Neuroscience Meeting Planner.
- 199) Westerberg JA, Maier AV, Schall JD (2018) Visual search strategies: Priming of pop-out in macaques. Program No. 486.10 2018 Neuroscience Meeting Planner.
- 200) Lowe KA, Reppert T, Schall JD (2018) Visual search strategies: Induction of shape selectivity in macaque frontal eye field. Program No. 486.11 2018 Neuroscience Meeting Planner.
- 201) Lowe KA, Schall JD (2019) Induction of shape selectivity in macaque frontal eye field dissociates perceptual and motor processing stages of visual search. 35.16. Vision Science Society. *Journal of Vision*.
- 202) Reppert TR, Heitz RP, Schall JD (2019) Monitoring and proactive control of visual search speed-accuracy tradeoff by supplementary eye field. 36.341. Vision Science Society. *Journal of Vision*.
- 203) Errington SP, Sajad A, Schall JD (2019) Cortical microcircuitry of gaze monitoring in supplementary eye field. 63.347. Vision Science Society. *Journal of Vision*.
- 204) Westerberg JA, Maier AV, Schall JD (2018) Performance monitoring signals during visual priming. 63.442 Vision Science Society. *Journal of Vision*.
- 205) Cox, Gregory Edward; Palmeri, Thomas J.; **Schall, Jeffrey D.**; Logan, Gordon D.; Smith, Philip L. (2019) A dynamic model of target selection in visual search by neurons in frontal eye fields. Joint meeting of 52nd Annual Meeting of the Society for Mathematical Psychology, and the 17th Annual Meeting of the International Conference on Cognitive Modelling, Montreal, Canada.
- 206) R. Doubnia, A. Sajad, B. Herrera, J. Schall, J. Riera, G. Woodman (2019) Microcircuitry of agranular frontal cortex: Laminar hase-amplitude coupling for cognitive control. Program No. 081.12 2019 Neuroscience Meeting Planner.
- 207) S.P. Errington, A. Sajad, J.D. Schall (2019) Microcircuitry of agranular cortex: Multiplexed executive control and performance monitoring signals. Program No. 081.11 2019 Neuroscience Meeting Planner.
- 208) B. Herrera, A. Sajad, G. F. Woodman, J. D. Schall, J. J. Riera (2019) Microcircuitry of agranular frontal cortex: A stochastic 2-compartment model of neocortical pyramidal cells. Program No. 081.13 2019 Neuroscience Meeting Planner.
- 209) K.A. Lowe, T.R. Reppert, J.D. Schall (2019) Separate modifiability of stages of target selection for visual search in macaques. Program No. 418.05 2019 Neuroscience Meeting Planner.
- 210) T.R. Reppert, R.P. Heitz, J.D. Schall (2019) Speed-accuracy tradeoff of visual processing in supplementary eye field: comparison with frontal eye field and superior colliculus. Program No. 418.04 2019 Neuroscience Meeting Planner.
- 211) A. Sajad, J.D. Schall (2019) Microcircuitry of agranular cortex: Laminar organization of signals for the feedback related negativity. Program No. 081.14 2019 Neuroscience Meeting Planner.
- 212) J.D. Schall, J.A. Westerberg, A.V. Maier (2019) Microcircuitry of visual attention: Attentional priming in area V4. Program No. 418.03 2019 Neuroscience Meeting Planner.
- 213) M.S. Schall, J.A. Westerberg, A.V. Maier, J.D. Schall, G.F. Woodman (2019) Contribution of area V4 to the N2pc event-related potential index of attention. Program No. 418.02 2019 Neuroscience Meeting Planner.



- 214) N.C. Van Wouwe, S.A. Wylie, P.M. Kaskan, E.B. Bradley, A.M. Gifford, S. Selvam, S. Hughes, A. Lopez, J.D. Schall, F.T. Phibbs, B.M. Dawant, J.S. Neimat (2019) Effects of dorsal and ventral STN stimulation on stopping performance. Program No. 783.11 2019 Neuroscience Meeting Planner.
- 215) J.A. Westerberg, A. Maier, J.D. Schall (2019) Microcircuitry of visual attention: laminar organization of attentional selection in area V4. Program No. 418.01 2019 Neuroscience Meeting Planner.

### Invited Presentations

- 2019 “Neuro-Computational Mechanisms of Visual Search, Gaze Control, and Performance Monitoring”, The Neuroscience Research Colloquium, York University, Toronto, Canada.
- 2019 “Microcircuitry of Performance Monitoring in Medial Frontal Cortex”, The Neuroscience Research Colloquium, University of British Columbia, Vancouver, Canada.
- 2018 “Neuro-logic: How your brain is keeping you from changing your mind”, Rotary Club of Green Hills, Nashville, TN.
- 2018 Keynote “Neural Control of Visual Search”, Visual Search and Selective Attention (VSSA IV), Holzhausen am Ammersee, Germany.
- 2018 “Cognitive Control and Eye Movements”, IBRO-APRC School on Cognitive Neuroscience: 5th Bangalore Cognition Workshop, Centre for Neuroscience, Indian Institute of Science, Bangalore, India
- 2018 “Microcircuitry of Performance Monitoring in Medial Frontal Cortex”, National Institute of Aging Director’s Seminar Series. Baltimore, MD.
- 2017 “Circuits and Computations for Movements of the Eyes”, Keynote address at Scientific Meeting honoring the memory of David A. Robinson. May 26-27 2017. Johns Hopkins University School of Medicine. Baltimore, MD.
- 2017 “Cognitive Neurophysiology of Gaze Control” for *Heads Up! Concussion: Current Trends in Diagnosis and Management* Nancy M. Benegas, MD; Gary S. Solomon, PhD, FACPN; Allan K. Sills, MD, ABPP-CN; Jennifer V. Wethe, PhD; Jeffrey D. Schall, PhD. American Association for Pediatric Ophthalmology and Strabismus 43rd Annual Meeting, April 2 – 6, 2017, Preliminary Program, Nashville, TN
- 2017 “Neurons, Circuits, Decisions and Actions”, The Smith-Kettlewell Eye Research Institute, San Francisco, California
- 2016 “Contributions of Supplementary Eye Field to Error Monitoring During Saccade Countermanding”, Wallace H. Coulter Foundation Lecture, Department of Biomedical Engineering, Florida International University, Miami, Florida
- 2016 “Contributions of Supplementary Eye Field and Anterior Cingulate Cortex to Performance Monitoring during Saccade Countermanding”, in Symposium: Action control and response monitoring, 18th World Congress of Psychophysiology, Havana, Cuba
- 2016 “Neurons, Circuits, Decisions and Actions”, Department of Cell Biology and Neuroscience, Montana State University
- 2016 “Decisions, accumulators and neurons: How secure a bridge?”, Center for Neural Science, New York University
- 2016 “Automatic and voluntary control of eye movements”, TEAM Presentation, Organizer: Jeffrey Schall, Participants: Brian Corneil (Univ Western Ontario), Doug Munoz (Queen’s Univ), Ziad Hafeed (Tübingen Univ), 26<sup>th</sup> annual meeting of Neural Control of Movement Society, Montego Bay, Jamaica
- 2016 “Decisions, accumulators and neurons: How secure a bridge?”, Département de Neurosciences, Université de Montréal
- 2015 “Eye Fields in Humans and Nonhuman Primates” – Discussion leader for symposium presented

- by Clayton Curtis, Stefan Everling, Beatriz Luna. Gordon Research Conference: Eye Movements - Integrating Perception and Action for Optimal Vision. Bentley University, Waltham, MA
- 2014 “Recent investigations of neural mechanisms of decision-making in frontal and supplementary eye fields: Speed-accuracy, laminar processing, and event-related potentials”, Neuroscience Seminar Series, Department of Experimental Psychology, University of Oxford, Oxford, UK
- 2014 “Neurons, Circuits, Decisions and Actions”, Keynote, Conference on Decision Making, School of Experimental Psychology, University of Bristol, UK
- 2014 “Neurons, Circuits, Decisions and Actions”, Institute Of NeuroScience, Université catholique de Louvain, Brussels, Belgium
- 2014 “Contributions of supplementary eye field to error monitoring”, “Bridging psychological models and neural mechanisms”, “Structure and function of frontal eye field”, 3 lectures provided for Neuroscience Graduate Program, Université catholique de Louvain, Brussels, Belgium
- 2014 “Recent investigations of neural mechanisms of decision-making in frontal and supplementary eye fields: Speed-accuracy, laminar processing, and event-related potentials”, L'Institut du Cerveau et de la Moelle Épineuse, Université Pierre et Marie Curie, Hôpital de la Salpêtrière, Paris, France
- 2014 “Neural Guidance of Gaze: Gated Accumulation”, Fourth workshop on Natural Environments, Tasks and Intelligence, University of Texas Austin
- 2014 “Neural control and monitoring of decision making”, Oral Presentation, annual meeting of Neural Control of Movement Society, Amsterdam
- 2014 “The mechanisms responsible for guiding and controlling gaze shifts”, VSS at ARVO Symposium “Eye and Hand Movements and Vision”, annual meeting of the Association for Research in Vision and Ophthalmology. Orlando, Florida.
- 2014 “Neurophysiological mechanisms of stopping”, Invited Symposium, Mechanisms of Response Inhibition, annual meeting of Cognitive Neuroscience Society, Boston
- 2013 “Where Does the Visual System End, and the Oculomotor System Begin?” – Discussion leader for symposium presented by Christopher Pack, Martin Paré & Jude Mitchell. Gordon Research Conference: Eye Movements - The Motor System that Sees the World. Stonehill College, Easton, MA
- 2013 “Neurons, Circuits, Decisions and Actions”, Rudolf Magnus Lecture, University of Utrecht, Utrecht, The Netherlands.
- 2012 “From salience to saccades: Gated accumulator model of visual search”, ZIF RESEARCH GROUP: Competition And Priority Control In Mind And Brain: New Perspectives From Task-Driven Vision. Opening Conference: Linking selection for visual perception, memory and action. Bielefeld University, Germany.
- 2012 “Stage theory of visual search: Gated accumulator model”, Visual Search and Selective Attention: III. Bavarian School of Administration at Holzhausen/Ammersee, Germany.
- 2011 “From salience to action: A gated accumulator model of saccade target selection”, Gordon Research Conference on Eye Movements, University of New England, Biddeford, Maine
- 2011 “Neural control and monitoring of saccadic eye movements: monkey and human”, Motivation & Vision Symposium, University of Amsterdam & Netherlands Institute of Neuroscience-KNAW.
- 2010 “On the Selection and Control of Behavior”, 2<sup>nd</sup> Annual Kenneth O. Johnson Memorial Lecture, The Zanvyl Krieger Mind/Brain Institute & Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2010 “Multimodal measurements of visual selection: Spikes, local field potentials and event-related potentials”, Department of Psychology, University of Oregon
- 2010 “On a Stage Theory of Attention & Decision” keynote speaker for Neuroscience Graduate Program retreat, University of Oregon
- 2010 “Neural guidance and control of visual search”, Salk Institute Seminar Series. La Jolla,

- California
- 2010 “How the Frontal Cortex Determines When and Where We Look” lead paper invited for Rank Prize Fund symposium in honor of Roger Carpenter, *Eye Movements: What Determines When and Where We Look*, Grasmere, Cumbria, England
- 2009 “Timing of selection for the guidance of gaze”, Vision Science Society Symposium: Dynamic Processes in Vision, Moderator: Jonathan D. Victor, Naples, Florida
- 2009 “Neural Guidance and Control of Action”, Integrative Neuroscience Seminar Series, Center for Neurobiology and Behavior, Keck-Mahoney Center for Mind and Brain, Columbia University College of Physicians and Surgeons
- 2009 “Neural Guidance and Control of Action”, Princeton Neuroscience Institute, Princeton University
- 2009 “Neurophysiological mechanisms of eye movement decisions”, Symposium I: Neurobiology of Decision Making. Winter Meeting, Canadian Physiological Society.
- 2008 “Neural Guidance and Control of Action”, Wake Forest University School of Medicine Department of Neurobiology and Anatomy
- 2008 “Neurons, Choices, Actions, Reasons”, Systems Biology of Decision Making, Mathematical Biosciences Institute, The Ohio State University
- 2008 “Neural Guidance and Control of Action”, Neurons Brains and Models: Crossing Levels of Analysis in Cognitive Brain Research Interdisciplinary Seminar, University of Michigan
- 2008 Adrian Seminars in Neuroscience, Department of Physiology, Development and Neuroscience, Cambridge University
- 2007 “Contribution of frontal eye field to eye movements”, Cortical Mechanisms of Vision. Centre for Vision Research, York University
- 2007 “On the role of the frontal lobe in timing eye movements”, Neural Basis of Timing and Anticipation symposium, Yale University
- 2007 “On the contributions of the frontal eye field, supplementary eye field and anterior cingulate cortex to the guidance and control of saccades” in symposium Cortical Mechanisms for Eye Movements, Centre for Vision Research Conference 2007: Cortical Mechanisms of Vision
- 2007 Department of Neuroscience Seminar Series, University of Minnesota
- 2006 “Neural basis of saccade target selection”, Friday, September 22, 2006, Centre for Vision Research, York University, Toronto Canada
- 2006 Center for Neuroscience at the University of Pittsburgh (CNUP) annual retreat
- 2006 “Prefrontal cortex, Working Memory, Flexible Behavior”, in memoriam of Patricia S Goldman-Rakic. Yale University
- 2006 Invited presentation at 3rd Annual Computational and Systems Neuroscience meeting (Cosyne06), Salt Lake City Utah
- 2005 "Neural selection and control of visually guided saccades", Max Planck Institute for Biological Cybernetics, Tuebingen, Germany
- 2005 “Executive control of gaze by the frontal lobe” for Symposium on Executive Functions and the Frontal Lobe, University of Tuebingen
- 2005 "Neural selection and control of visually guided saccades", University of Indiana
- 2005 "Neural basis of deciding, choosing and acting", Neurobiology of Decision-Making, Banbury Center, Cold Spring Harbor Laboratory
- 2005 "Neural selection and control of visually guided saccades", School of Psychology colloquium series, Georgia Tech
- 2005 Dan Guitton Recognition Symposium, Canadian Physiological Society winter meeting, Mont Sainte Anne Quebec
- 2005 "Neural selection and control of visually guided saccades", Johns Hopkins University Department of Biomedical Engineering
- 2004 “Neural selection and control of visually guided movements”, RIKEN Brain Science Institute,

- Tokyo, Japan
- 2004 "Neural basis of saccade selection and control", 4th Antonio Borsellino College on Neurophysics, Trieste, Italy
- 2004 "Percept, Decision, Action: Bridging the Gaps", Novartis Foundation Symposium 271, Trieste, Italy
- 2004 "Neural basis of saccade selection and control", Department of Physiology, Northwestern University Medical School
- 2004 "An Interactive Race Model of Countermanding", 37th Annual Meeting of the Society for Mathematical Psychology, University of Michigan
- 2004 "Neural selection and control of visually guided saccades", invited speaker for the 24<sup>th</sup> Symposium of the Center for Visual Science, Adaptive Representation and Control in Vision, University of Rochester, Rochester, New York.
- 2004 "Neural mechanisms of visual search" VisioNYC (Vision in old New York), The New York Academy of Sciences, Columbia University, New York, New York.
- 2004 "Neural selection and control of visually guided saccades", invited speaker for the Eighth International Conference on Cognitive and Neural Systems, Center for Adaptive Systems and the Department of Cognitive and Neural Systems, Boston University.
- 2004 "Neural control of visually guided saccades", University of Montreal, Montreal, Canada.
- 2004 "Neural selection of visually guided saccades", Montreal Neurological Institute, McGill University, Montreal, Canada.
- 2004 "Neural selection and control of visually guided saccades", Neuroscience Seminar Series, Division of Neuroscience, Baylor College of Medicine, Houston, Texas
- 2004 van Swammerdam Lecture, Vrije Universiteit, Royal Netherlands Academy of Arts and Sciences, Amsterdam, The Netherlands
- 2003 "Neural correlates of primate decision making", Symposium, 33rd Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
- 2003 Keynote speaker, European Conference on Eye Movements, Dundee, Scotland
- 2003 San Miniato Workshop on Visual Attention, San Miniato, Italy
- 2003 "Neural selection and control of visually guided saccades", Stanford University
- 2003 "Neural selection and control of visually guided saccades", University of California, Berkeley
- 2003 "Neural selection and control of visually guided saccades", University of Wisconsin
- 2003 "Neural selection and control of visually guided saccades", University of Pennsylvania
- 2003 "Neural selection and control of visually guided saccades", University of Western Ontario, London, Ontario, Canada
- 2003 "Neural selection and control of visually guided saccades", University of Quebec, Montreal, Quebec, Canada
- 2002 "Neural Basis of Deciding, Choosing and Doing", 5th Annual Scholarship Conference of the Society for Evolutionary Analysis in Law. Vanderbilt University Law School, Nashville, Tennessee
- 2002 Attention and Performance XX, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Sicily
- 2002 "Antecedents and correlates of visual awareness in the frontal cortex" in Plenary Session on Visual Perception and Consciousness, 5<sup>th</sup> Annual "Toward a Science of Consciousness" conference, Tucson, Arizona
- 2002 "Neural selection and control of visually guided action", Dartmouth College
- 2002 "Neural selection and control of visually guided action", Brown University
- 2002 "Neural selection and control of visually guided action", University of Illinois
- 2001 "The physiology of cognitive processes", Royal Society, London, England.
- 2001 "Look and See: How the Brain Attends, Makes Choices and Directs the Eyes", Symposium, 31st

- Annual Meeting of the Society for Neuroscience. San Diego, California.
- 2001 "Neural selection and control of visually guided movements", McGovern Institute, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- 2001 Dynamics of Neural Networks: From Biophysics to Behavior, Institute for Theoretical Physics, Santa Barbara, California
- 2001 Symposium and workshop on the anterior cingulate, The Swartz Center for Computational Neuroscience, The Salk Institute for Biological Studies, The Gatsby Foundation, Rancho Santa Fe, California.
- 2001 "The Time it Takes to Think and Do: Accounting for Response Time", Symposium, Neural Control of Movement, Seville, Spain
- 2001 "Neural selection and control of visually guided action", Center for Neural Science, New York University
- 2000 Neuroscience Expert Panel, DARPA Focus 2000, Chantilly, Virginia.
- 2000 "Neural Mechanisms of Visual Perception and Cognition" 26<sup>th</sup> Annual SIERKEN Symposium, National Institute of Physiological Sciences, Okazaki, Japan.
- 2000 "Towards Animal Models of Attention and Consciousness", The Banbury Center, Cold Spring Harbor Laboratory
- 2000 McKnight Conference on Neuroscience, The Aspen Institute, Aspen, Colorado
- 2000 "Neural coding of visual selection in frontal cortex", invited for Neural Coding - the Annual Symposium sponsored by the Center for Visual Science, University of Rochester, Rochester, New York.
- 2000 "Neural selection and control of visually guided action", Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh, Pennsylvania.
- 2000 "Neural basis of deciding, choosing and doing", NIH Neuroscience Lecture Series, Sponsored by NINDS, NIMH, NIDCD, NIDA, and NICHD, Lipsett Amphitheater, Building 10, NIH, Bethesda, Maryland.
- 2000 "Neural selection and control of visually guided action", Progress in Neuroscience Seminar Series, Weill Medical College, Cornell University, New York, New York.
- 1999 "Neural selection and control of gaze", Computation and Neural System seminar series, California Institute of Technology, Pasadena, California.
- 1999 11<sup>th</sup> Annual Frontiers of Science Symposium, National Academy of Sciences, Beckman Center, Irvine, California.
- 1999 "Neural selection of targets for gaze", Invited presentation for Symposium: Perceptual and Cognitive Processing for Saccadic Eye Movements at the annual Optical Society of America. Santa Clara, California.
- 1999 "Neural selection and control of visually guided action", Vision Research Center Visiting Scholar Program, University of Alabama at Birmingham, Birmingham, Alabama.
- 1999 "Neural selection and control of visually guided action", Department of Physiology & Biophysics, University of Washington, Seattle, Washington.
- 1999 "Antecedents and correlates of visual awareness in macaque prefrontal cortex", Invited presentation at Pre-ARVO conference sponsored by *Vision Research* on Pre-attentive and attentive mechanisms in vision: Perceptual organization and dysfunction. Fort Lauderdale, Florida.
- 1999 "Neural selection and control of visually guided action", Volen National Center for Complex Systems, Brandeis University, Waltham, Massachusetts.
- 1999 "Neural selection and control of visually guided action", Neurobiology Department Seminar Series, Duke University, Durham, North Carolina
- 1999 "Neural selection and control of visually guided action", Neuroscience and Cognitive Science Seminar Series, University of Maryland, College Park, Maryland.

- 1998 “Cortical control of gaze”, Grand Rounds, Department of Neurology, Vanderbilt University.
- 1998 “Neural selection and control of visually guided action”, Helmholtz Club, Irvine, California.
- 1998 Computational Neuroscience: Vision Course, Cold Spring Harbor Laboratory
- 1998 Panel member of symposium “What the brain's neurons can tell the mind's models of mind” chaired by Ray Klein, scheduled for the Fifth Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California.
- 1998 “Neural selection and control of visually guided action”, 10<sup>th</sup> Biennial McKnight Conference on Neuroscience, Aspen, Colorado
- 1998 “Neural selection and control of visually guided eye movements”, Rockefeller University, New York, New York.
- 1998 “Neural selection and control of visually guided eye movements”, Department of Psychology, University of Oregon, Eugene, Oregon.
- 1998 “Neural selection and control of visually guided eye movements”, Boynton Colloquium Series, Center for Visual Sciences, University of Rochester, Rochester, New York.
- 1997 “Neural decisions for the guidance of gaze”, Seminars in Neuroscience, The Center for Molecular Neuroscience, Vanderbilt University School of Medicine.
- 1997 Panel member in symposium “Visual Search and Selection”, International Neuropsychological Symposium, Camogli, Italy.
- 1997 “Searching and stopping for the guidance of gaze”, Kenneth Craik Club, Physiology Department, Cambridge University, Cambridge, UK.
- 1997 Invited presentation for *From Attention to Action, Contemporary Issues in Movement Planning, Preparation and Initiation*, biennial international symposium hosted by the Center for Neural Science, New York University, New York, NY
- 1997 “Searching and stopping for the guidance of gaze”, Neuroscience Seminar Series, Queen’s University, Kingston, Ontario
- 1997 “Searching and stopping for the guidance of gaze”, David Bodian Lecture, Zanvyl Krieger Mind/Brain Institute, Johns Hopkins University, Baltimore, Maryland
- 1997 “Searching and stopping for the guidance of gaze”, Department of Neurobiology, Harvard Medical School. Boston, Massachusetts.
- 1997 “Searching and stopping for the guidance of gaze”, invited seminar in the Department of Neurobiology and Physiology, Northwestern University, Evanston, Illinois
- 1996 "Neural basis of saccade target selection", Cognitive Neuroscience Seminar at the National Institutes of Health, Bethesda, Maryland
- 1996 Panel organizer for symposium, "Saccade target selection", 6th annual meeting of Neural Control of Movement, Marco Island, Florida.
- 1995 Panel member for workshop, "Role of the primate frontal and medial eye fields in oculomotor control" 5th annual meeting of Neural Control of Movement, Key West, Florida.
- 1995 Vision: From Photon to Perception, National Academy of Sciences Colloquium, Beckman Center, Irvine, California
- 1995 "Neural basis of saccade target selection", Seminars in Cognitive Neuroscience Series, Montreal Neurological Institute, Montreal, Canada
- 1994 "Mechanisms of visual selection and attention that guide eye movements", McDonnell-Pew Program in Cognitive Neuroscience 1994 Annual Meeting, Miami, Florida
- 1991 "Central Control of Eye Movements", Grand Rounds, Department of Neurology, Vanderbilt University School of Medicine, Nashville, Tennessee
- 1990 "The neural basis of visually guided eye movement", Visual Science Symposium, annual meeting of American Academy of Optometry, Nashville, Tennessee
- 1989 "The role of frontal cortex in visually guided movements", Department of Psychology, Vanderbilt University, Nashville, Tennessee

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- 1989 "The role of frontal cortex in visually guided movements", Department of Neurobiology, State University of New York at Stony Brook, Stony Brook, New York
- 1988 "A survey of the neuronal responses in supplementary motor area in monkeys performing visually guided movements", 21st Winter Conference on Brain Research, Steamboat Springs, Colorado
- 1986 "Retinal ganglion cell morphology and cortical orientation specificity", Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts
- 1983 "Structural basis of retinal ganglion cell orientation sensitivity", Department of Neurobiology, State University of New York, Albany, New York.