Curriculum Vita

Jeffrey D. Schall
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Education

Aug 1983 – May 1986	Ph.D., Anatomy, University of Utah, Salt Lake City, Utah.
Aug 1979 – May 1982	B.S.Chem., Chemistry, University of Denver, Denver, Colorado.

Professional Experience

Jan 2021-	Full Professor, Department of Biology, Faculty of Science, York University
Jan 2021-	Scientific Director of the York Visual Neurophysiology Centre
Jan 2021 -	Adjoint Professor, Department of Psychology, Vanderbilt University
Aug 2018 - Dec 2020	Professor, Communication of Science and Technology, Vanderbilt University
Aug 2004 - Dec 2020	Professor, Ophthalmology & Visual Sciences
Aug 2003 - Dec 2020	E. Bronson Ingram Professor of Neuroscience, Vanderbilt University
Aug 2000 - Dec 2020	Director, Center for Integrative & Cognitive Neuroscience
Aug 1999 - Dec 2020	Professor, Department of Psychology, Vanderbilt University
Aug 1998 – July 2015	Director, Vanderbilt Vision Research Center
Aug 1998 – Dec 2020	Director, Vision Training Program
Aug 1995 – July 1999	Associate Professor, Department of Psychology, Vanderbilt University
Aug 1990 – Dec 2020	Kennedy Center Investigator
Aug 1989 - July1995	Assistant Professor, Department of Psychology, Vanderbilt University
July 1986 – July 1989	Postdoctoral Fellow, Department of Brain & Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts, P.H. Schiller, Ph.D.
Aug 1982 – June 1986	Research Associate, Department of Anatomy, University of Utah, Salt Lake City, Utah, A.G. Leventhal, Ph.D.
Aug 1981 – May 1982	Research Assistant, Brain Research Laboratory, National Jewish Hospital and Asthma Center, Denver, Colorado, D.W. Shucard, Ph.D.
Aug 1980 – May 1982	Research Assistant, Physiological Psychology Laboratory, Department of Psychology, University of Denver, Denver, Colorado, J.A. Trowill, Ph.D., M.L. Laudenslager, Ph.D.

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.

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

2009-2020 co-investigator, Geoffrey F Woodman, 5R01EY019882, National Eye Institute, Comparative Electrophysiology: Visual Event-Related Potentials and Oscillations

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

2020-2024 multi-PI with Tom Palmeri & Gordon Logan, National Eye Institute, 1R01EY21833, Stochastic Models of Visual Decision Making and Visual Search

2021-2023 P.I., Canada Foundation for Innovation, 36444, Centre for Neuro-Behavioral Monitoring Using Advanced Technologies

2022-2027 P.I., Natural Sciences and Engineering Research Council, Discovery Grant, RGPIN-2022-04592, Multiscale Investigation of Neural Circuitry of Visual Cognition in Primates

Teaching Experience

York University Neuroscience Major—Systems, Behavioural, and Cognitive Neuroscience; Visual System; Neuroscience & Law (with Owen Jones of VU Law School); Vanderbilt College Scholars Program: Neuroethics; Methods in Behavioral Neuroscience; Movement; Introduction to Neuroscience; Seminar in Physiological Psychology: Psychology of Human Motor Control; Vanderbilt Freshman Seminar on Brain & Behavior; Seminar in Physiological Psychology: Current Issues in Neuroscience; Seminar in Physiological Psychology: Eye Movements and Attention; Vanderbilt College Scholars Program Brain & Behavior.

Graduate students supervised

1991-1997 Doug Hanes, Department of Psychology Graduate Program, Vanderbilt University
Currently Executive VP Product Management, National General Insurance

1994-1999 Narcisse Bichot, Department of Psychology Graduate Program, Vanderbilt University
Currently Research Scientist, Massachusetts Institute of Technology

1999-2003 Takashi Sato, Department of Psychology Graduate Program, Vanderbilt University
Currently Assistant Professor, Department of Neuroscience, Medical University of South Carolina

2001-2003 Shigehiko Ito, Department of Psychology Graduate Program, Vanderbilt University
Currently Legal Associate, White & Case LLP

2004 - 2009 Jeremiah Cohen, Neuroscience Graduate Program, Vanderbilt University
Currently Associate Professor, Department of Neuroscience, Johns Hopkins University School of Medicine.

2003-2006 Corrie Camalier (with Gordon Logan and Tom Palmeri), Neuroscience Graduate Program, Vanderbilt University
Currently Postdoctoral Fellow, Duke University

2002 - 2010 Erik Emeric, Neuroscience Graduate Program, Vanderbilt University
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 Assistant Professor, Department of Neurosurgery, University of Alabama at Birmingham

2006 - 2012 Katherine Thakkar (with Sohee Park), Psychological Sciences Graduate Program, Vanderbilt University
Currently Associate Professor of Psychology, Michigan State University

2007 - 2013	Braden Purcell (with Tom Palmeri and Gordon Logan), Psychological Sciences Graduate Program, Vanderbilt University Currently a data scientist for Squarespace
2008 - 2013	David Godlove, Neuroscience Graduate Program, Vanderbilt University Currently Bioinformatics Architect, Sapient Government Services
2010 - 2016	Robert Reinhart (with Geoff Woodman), Psychological Sciences Graduate Program, Vanderbilt University Currently Assistant Professor of Psychology, Boston University
2010 - 2011	Masters Thesis advisor for Mirjam Bloemendaal, MSc in Brain and Cognitive Sciences, University of Amsterdam, Cognitive Science
2015 - 2020	Kaleb Lowe, Psychological Sciences Graduate Program, Vanderbilt University Currently Senior Data Scientist, App Annie.
2016 -	Jacob Westerberg (with Alex Maier), Psychological Sciences Graduate Program NEI fellow, Vanderbilt University
2017 -	Steven Errington (with Geoff Woodman), Psychological Sciences Graduate Program, Vanderbilt University
2018 -	External advisor, Beatriz Herrera, Department of Biomedical Engineering, Florida International University
2022 -	Pranavan Thirunavukkarasu, Department of Biology, Graduate Diploma in Neuroscience, York University
2022 -	Wanyi Lyu, Department of Biology, Graduate Diploma in Neuroscience, York 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 E Bronson Ingram Professor of Neuroscience, Professor of Psychology, Professor of Ophthalmology & Visual Sciences, 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 of Psychology, 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) Data Scientist - Nederlandse Spoorwegen.
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 Director of Digital Health Strategy at AbbVie, 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) Currently self-employed, *Brain Inspired* Podcast
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 - 2020	Thomas Reppert, NEI Postdoctoral research fellow Assistant Professor, Department of Neuroscience, University of the South
2016 -	Amirsaman Sajad, CIHR Postdoctoral research fellow Assistant Professor of Neural Science, NYU Shanghai
2018 - 2020	Gregory Cox, Postdoctoral research associate (with Tom Palmeri & Gordon Logan) Assistant Professor, Department of Psychology, SUNY Albany
2021 -	Marcus Watson, Postdoctoral research associate (with Thilo Womelsdorf)
2021 -	Simon Lilburn, Postdoctoral research associate (with Tom Palmeri & Gordon Logan)
2022 -	Giwon Bahg, Postdoctoral research associate (with Tom Palmeri & Gordon Logan)
2022 -	Hamidreza Ramezanpour, CIHR Postdoctoral fellow (with Maz Fallah & Kohitij Kar)

Professional Service - Manuscript Review

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

2021-2026	Vision Science Society, Presidential Advisory Committee
2020-2022	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-	Consultant for Vision Research Training Program, University of Michigan
2017, 2019	Co-Chair, 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

2021-2022	Search committee, Faculty Position in Visual Neuroscience, School of Kinesiology & Health Science, Faculty of Health, York University
2021-	Leadership Team, Vision Science to Applications (VISTA), York University
2021-	Executive Committee, Centre for Vision Research, York University
2021-	Vivarium User Committee, York University
2020-2021	Search committee, Canada Research Chair (Tier 2) Faculty Position in Visual Neuroscience, Department of Psychology, Faculty of Health, York University
2020-2021	Chair, Search committee, Canada Research Chair (Tier 2) Faculty Position in Visual Neuroscience, Department of Biology, Faculty of Science, York University
2019- 2020	Chair, Faculty Advisory Committee for Large Animals, Vanderbilt University
2016, 2017	Search Committee for Vanderbilt Brain Institute Director
2014- 2020	Institutional Animal Care & Use Committee, Vanderbilt University
2008-2009	Task Force on Graduate Education appointed by Provost, 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.

Society Memberships

2021-	Canadian Association for Neuroscience
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

Research Group Affiliations

2021-2022	"Handling Visual Distraction", Center for Advanced Studies Research Group, Ludwig-Maximilians-Universität München
2012	ZIF RESEARCH GROUP: Competition and Priority Control In Mind And Brain: New Perspectives From Task-Driven Vision. Bielefeld University, Germany.
2007-2010	The Law and Neuroscience Project, John D. and Catherine T. MacArthur Foundation.

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, Jeffrey D. Schall, Francis X. Shen, Morris B. Hoffman, Anthony D. Wagner (2022) *BRAIN SCIENCE FOR LAWYERS, JUDGES, AND LITIGANTS*. In preparation for Oxford University Press.

Owen D. Jones, Jeffrey D. Schall, Francis X. Shen (2021) *LAW AND NEUROSCIENCE, 2nd edition*. Wolters Kluwer Law & Business.

Jones, Owen D. and Schall, Jeffrey D. and Shen, Francis X., LAW AND NEUROSCIENCE, 2nd Edition, ISBN 978-1-5438-0109-5, Forthcoming Vanderbilt Law Research Paper No. 20-56

David Calkins, Jeffrey D Schall, Geoffrey F Woodman (Editors) *THE VISUAL SYSTEM*. Princeton University Press (to appear in 2023).

Edited volumes

1) Thomas Geyer, Chris Olivers, **Jeffrey D. Schall**, Jeremy Wolfe (editors) (2020) *Visual Cognition*. Special Issue devoted to the 4th meeting of Visual Search and Selective Attention (VSSA IV) Volume 27, 2019 - Issue 5-8.

2) Aesef Shaikh, **Jeffrey D. Schall** (editors) (2021) Vision and Action. *Journal of Computational Neuroscience*. Special issue devoted computational models of gaze control in honor of the retirement of Lance M. Optican

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.
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Program No. 55.04 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.

181) Middlebrooks P, Zandbelt BB, Palmeri TJ, Logan GD, **Schall JD** (2016) Joint modeling of perceptual decision making and response inhibition. Program No. 176.12 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.

182) Zinke W, Cosman JD, Shuman JD, **Schall JD**, Caskey CF (2016) Focused ultrasound over frontal eye field of macaque monkeys: Modulation of visual search performance and EEG index of attention. Program No. 848.11 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.

183) Caskey, C. F., Zinke, W., Cosman, J., Shuman, J., **Schall, J**. (2016). Focused Ultrasound modulation of visual search performance and associated EEG in monkeys. FUS Foundation, 2016. Oral Presentation. Bethesda, MD.

184) Charles Caskey, Vandiver Chaplin, Pai-Feng Yang, William Grissom, Tony Phipps, Allen Newton, John Gore, Li Min Chen, Wolf Zinke, **Jeffrey Schall**. (2017) "Ultrasound Neuromodulation with MRI for Brain Circuitry in Non-Human Primates." Invited talk for International Society of Magnetic Resonance in Imaging, 2017. Frontiers in Neuroscience: Preclinical MRI-X. Honolulu, HI.

185) Katharine N. Thakkar, Martin Rolfs, Jan W. Brascamp, Lara Rösler, **Jeffrey D. Schall**, Sohee Park (2017) Visuomotor Prediction Abnormalities in the Schizophrenia Spectrum. Society for Research in Psychopathology, Denver, Colorado.

186) Roper Z, Schall JD, Woodman GF (2017) Electrophysiological indices of target selection and distractor suppression under varying perceptual load: Evidence for spreading suppression. Journal of Vision. 17(10):979-979. doi: 10.1167/17.10.979

187) Sajad A, Schall JD (2017) Microcircuitry of visual performance monitoring. Journal of Vision. 17(10):1150-1150. doi: 10.1167/17.10.1150

188) T. Reppert, M. Servant, R. P. Heitz, J. D. Schall (2017) Neural correlates of speed-accuracy tradeoff: Superior colliculus and frontal eye field. Program No. 60.2 2017 Neuroscience Meeting Planner.

189) J. G. Elsey, K. Lowe, P. Middlebrooks, J. D. Cosman, J. D. Schall (2017) Functional architecture of frontal eye field: Spatial clustering of functional properties. Program No. 60.21 2017 Neuroscience Meeting Planner.

190) K. A. Lowe, J. D. Schall (2017) Metaclustering: A novel method for identifying robust classes of neuronal responses in frontal eye field. Program No. 60.19 2017 Neuroscience Meeting Planner

191) A. Sajad, J.D. Schall (2017) Microcircuitry of agranular frontal cortex: Laminar organization of saccade performance monitoring signals in supplementary eye field. Program No. 337.12 2017 Neuroscience Meeting Planner

192) S Errington, A Sajad, J Schall (2018) Microcircuitry of visual performance monitoring in the supplementary eye field: Laminar distribution of visual processing under conflict. Journal of Vision. 2018; 18(10):201-201. doi: 10.1167/18.10.201

193) A Sajad, J Schall (2018) Microcircuitry of visual performance monitoring in the supplementary eye field: Laminar distribution of error and reward processing. Journal of Vision. 2018; 18(10):200-200. doi: 10.1167/18.10.200

194) K Lowe; T Reppert; J Schall (2018) Effects of visual search target-distractor congruence on stimulus-response mapping in macaques: Performance strategies. Journal of Vision. 2018; 18(10):1212-1212. doi: 10.1167/18.10.1212

195) T Reppert; K Lowe; J Schall (2018) Effects of visual search target-distractor congruence on stimulus-response mapping in macaques: Saccade timing and vigor. Journal of Vision. 2018; 18(10):1213-1213. doi: 10.1167/18.10.1213

196) Errington SP, Sajad A, Schall JD (2018) Microcircuitry of performance monitoring: Laminar structure of visual and conflict monitoring in the supplementary eye field. Program No. 081.13

2018 Neuroscience Meeting Planner.

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. 2019; 19(10):132c. doi: https://doi.org/10.1167/19.10.132c

202) Reppert TR, Heitz RP, Schall JD (2019) Monitoring and proactive control of visual search speed-accuracy tradeoff by supplementary eye field. Vision Science Society. Journal of Vision. 2019; 19(10):144c. doi: https://doi.org/10.1167/19.10.144c

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. 2019; 19(10):306c. doi: https://doi.org/10.1167/19.10.306c

204) Westerberg JA, Maier AV, Schall JD (2019) Performance monitoring signals during visual priming. 63.442Vision Science Society. Journal of Vision. 2019; 19(10):316b. doi: https://doi.org/10.1167/19.10.316b

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 Modeling, Montreal, Canada.

206) R. Doubnia, A. Sajad, B. Herrera, J. Schall, J. Riera, G. Woodman (2019) Microcircuitry of agranular frontal cortex: Laminar phase-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.

216) Michelle Schall; Jacob Westerberg; Alexander Maier; Jeffrey Schall; Geoffrey Woodman (2020) Laminar origins of the N2pc index of visual attention in area V4. Vision Sciences Society Annual Meeting Abstract. Journal of Vision. 2020; 20(11):299. doi: https://doi.org/10.1167/jov.20.11.299

217) Jacob A. Westerberg; Alexander Maier; Jeffrey D. Schall (2020) Neural mechanism of priming of popout in visual cortex. Vision Sciences Society Annual Meeting Abstract. Journal of Vision. 2020; 20(11):131. doi: https://doi.org/10.1167/jov.20.11.131

218) Steven P. Errington; Jeffrey D. Schall (2020) Express saccades optimize reward rate in a saccade countermanding task Vision Sciences Society Annual Meeting Abstract. Journal of Vision. 2020; 20(11):121. doi: https://doi.org/10.1167/jov.20.11.121

219) Kaleb A. Lowe; Thomas R. Reppert; Jeffrey D. Schall (2020) Neural Correlates of Multidimensional Perceptual Decision Making in Macaque Frontal Eye Field. Vision Sciences Society Annual Meeting Abstract Journal of Vision. 2020; 20(11):123. doi: https://doi.org/10.1167/jov.20.11.123

220) Thomas R. Reppert; Chenchal R. Subraveti; Jeffrey D. Schall (2020) Speed-accuracy tradeoff of visual search: Network dynamics through spike rate correlations between supplementary eye field and visuomotor structures. Vision Sciences Society Annual Meeting Abstract. Journal of Vision. 2020; 20(11):1328. doi: https://doi.org/10.1167/jov.20.11.1328

221) Jeffrey D. Schall; Thomas R. Reppert (2020) Speed-accuracy tradeoff of visual search: Modulation of pupil size. Vision Sciences Society Annual Meeting Abstract. Journal of Vision. 2020; 20(11):1338. doi: https://doi.org/10.1167/jov.20.11.1338

222) Amirsaman Sajad; Jeffrey D Schall (2020) Cortical microcircuitry encoding expected utility and reward prediction error for visually guided saccades. Vision Sciences Society Annual Meeting Abstract. Journal of Vision. 2020; 20(11):325. doi: https://doi.org/10.1167/jov.20.11.325

223) Amirsaman Sajad; Andrew Tomarken; Aran Sullivan; Geoffrey Woodman; Jeffrey D Schall (2021) Differential effects of positive and negative reward prediction error on saccade response time adaptation in a reversal learning visual stop-signal task. Vision Sciences Society Annual Meeting Abstract. A135.

224) Joseph S. Lappin, Kaleb A. Lowe, Thomas R. Reppert, **Jeffrey D. Schall**, & Herbert H. Bell (2021) The Dynamics of Perception and Action. Vision Sciences Society Annual Meeting Abstract. B147.

225) B. Herrera, A. Sajad, S.P. Errington, **J. D. Schall**, J. J. Riera (2021) Low frequency spike-field coupling for error monitoring in medial frontal cortex: Empirical findings and biophysical modeling. Program No. 845.04 2021 Neuroscience Meeting Planner.

226) J.A. Westerberg, E.A. Sigworth, **J.D. Schall**, A. Maier (2021). Laminar profile of feature selectivity in V4 and its rhythmic enhancement with exogenous attention Program No. 774.01 2021 Neuroscience Meeting Planner.

227) J.A. Westerberg, **J.D. Schall**, A. Maier (2022). Evidence for bottom-up computation of pop-out in visual cortex which predicts behavior. Vision Sciences Society Annual Meeting Abstract.

228) Hamidreza Ramezanpour, **Jeffrey Schall**, Mazyar Fallah (2022) Neural correlates of curved saccades in the primate frontal eye field. Vision Sciences Society Annual Meeting Abstract.

229) B. Herrera, **J. D. Schall**, J. J. Riera (2022) Cell-specific mechanisms of neocortical slow oscillations: a computational modeling study. Biomedical Engineering Society Annual Meeting Abstract.

Invited Presentations

2022 "Neurocomputational mechanisms of visual search", 52nd NIPS International Symposium on 'Frontiers in Primate Systems Neuroscience'. National Institute for Physiological Sciences. Okazaki, Japan

2021 "Selective influence and sequential operations in visual search: A research strategy for resolving neuro-computational mechanisms", Jeremy Wolfe Visual Attention Laboratory, Brigham & Women's Hospital, Cambridge, MA

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 Hafed (Tübingen Univ), 26th 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 Épinière, 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", 2nd 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 24th 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, Louisianna.
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, 5th 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" 26th 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 Univeristy, 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 11th 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”, 10th 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
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.